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上海鼎晖科技股份有限公司 SHANGHAI TOPLIGHT TECHNOLOGY CO., LTD.

2013

CHINA

地址/Add: 上海市黄浦区北京东路668号东楼26层D座 邮编/P.C.: 200001
 电话/Tel: +86 21 53084000 53084111 53084222 传真/Fax: 53084333
 工厂地址: 上海市嘉定区嘉新公路1118号 Email: led@ledtoplight.com.cn

USA Toplight International LLC

Add: 780 Roosevelt, Suite 100, Irvine, CA 92620
 Tel: +1 949-333-6140
 Fax: +1 949-333-6100

LED TOPLIGHT

LED Catalogue

上海鼎晖科技股份有限公司

2013

Language:



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2013



TOPLIGHT



— LED产品目录 —

SHANGHAI TOPLIGHT TECHNOLOGY CO., LTD.

上海鼎晖科技股份有限公司

About 公司简介



■上海鼎晖科技股份有限公司成立于1996年，通过多年的行业磨练及稳健的发展，已成LED光电领域的主要制造商之一。专注于LED的芯片封装工艺，以生产高信赖性LED点阵、背光模组、照明级COB模组著称。企业荣获：国家高新技术企业、上海小巨人企业等称号。公司生产基地位于上海嘉定、青浦，生产场地40000余平方米，年产量200亿光点。拥有专业制造人员及专业资深工程技术团队逾400名。公司生产基地拥有业界国际最先进智能封装设备及各类先进的测试分析检测仪器；全静电十万级无尘车间及大型高温老化检测等基础设施，通过ISO9001、ISO14001、RoHS等多项认证，部分产品通过CE、ETL、CCC、CQC等国际认证。

鼎晖科技以诚信拓市场，以稳健树品牌，以品质创未来，公司由日籍资深管理团队担任核心领导层。在上海市半导体照明工程技术研究中心的支持下，承担国家863计划LED封装项目及多项上海市科学技术委员会设立的LED尖端科技攻关项目，并多次获奖。企业联合复旦大学、北京大学、上海大学等众多科技研究机构共同研发生产高水准、高信赖性LED相关产品，以生产高品质要求的LED光源器件作为企业主要发展方向。

Shanghai Toplight Technology Co., Ltd was founded in 1996 in Shanghai, China. Through 18 years of dedication in R&D and manufacturing experience, Toplight has grown to become one of the major manufacturers in the LED industry, and garnered many honors such as National High Tech Company, and Shanghai Technology Titan. Toplight specializes in LED packaging technology, and its main products are lighting grade COB modules, backlight units, and high reliability dot matrix and segment displays. Factories are located in Shanghai JiaDing and QingPu district, with over 40,000m² of production floor space and annual LED dice consumption capacity exceeding 20 billion. Toplight team consists over 400 of industry's highly experienced management and technical personnel; along with latest fully automated equipments, SGS certified clean rooms, high temperature burn-in aging room, etc., Toplight is able to offer the industry's highest quality products and shortest lead-time. Toplight factories are certified with ISO9001, ISO14001, RoHS compliance, with many products also with CE, ETL, CCC, CQC certification.

Toplight brings integrity and high quality into the LED packaging industry. Factories are efficiently managed using proven experienced Japanese management team and system. With the support from Shanghai Semiconductor Lighting Engineering Research Center, and collaboration with local academic research facilities such as Shanghai, Fudan and Beijing universities, Toplight has undertaken numerous critical projects and completed them successfully, with many winning highest honor awards. Toplight will continue to capitalize on the best talent found in the nation's high tech center Shanghai to continue produce the most innovative, highest quality and most reliable LED components.

上海鼎晖科技股份有限公司は、1996年に創立、この間研鑽を積み重ね順調に発展、LED業界主要メーカーとして成長して来ました。LEDパッケージング技術を中心に、LEDドットマトリックス・バックライト・照明器具用COBモジュールを生産しています。上海市からは、長年の功績と実績により「国家ハイテク企業」・「上海市小巨人企業」の認定会社称号を受けています。生産拠点は、上海市の嘉定区と青浦区にあり、工場面積40,000平方メートル、年間約200億光点の生産能力があります。生産人員、開発を含めて約400名の人員。生産は、十万クラスのクリーンルーム環境下で、最先端の輸入自動機械設備と高性能試験・分析機器・高温エングル-ムを保有。ISO9001、ISO14001、RoHS認証を持つ工場であります。製品によっては、CE、ETL、CCC、CQAの国際認証を取得しています。

上海鼎晖科技股份有限公司は、お客様の信頼・商品力・品質力をより高める為に、日本人のトップ管理者により、日本式マネジメントシステムを採用、品質・技術開発面での強化を図っています。上海市半導体照明工会社の支援を受け、「国家863計画LEDパッケージングプロジェクト」の推奨会社でもあります。又上海復旦大学、北京大学、上海大学と共同研究開発を進め、高品質・高信頼性の商品開発体制を構築しています。上海鼎晖科技股份有限公司は、お客様に満足していただけるLED商品とサービスを提供し続けます。



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杰出案例 Successful case 傑出事例



●上海延安路高架桥 选用本公司大功率蓝光产品50余万颗，完成14公里泛光照明工程。至今已五年，使用良好。

Using over 500,000 high power blue LED made by Toplight, the 14km stretch of Shanghai Yanan overpass has been lit beautifully for over 5 years already.
上海延安路高架桥は、弊社のハイパワーブルーLEDが全長14kmに亘って、50万顆採用されています。5年間問題なく使用されています。



●苏州河18座桥梁 选用本公司彩色大功率产品，展现上海百年文化长廊之夜景。已完成四年，使用良好。

Toplight's high power color LEDs have been used to illuminate the 18 bridges of Suzhou River for over 4 years, displaying the charming night view of Shanghai with hundred years' history and culture.
蘇州河に架かる18本の橋に、弊社カラーハイパワーLEDが採用されています。上海100年の文化歴史の景観を表現しています。4年間問題なく使用されています。



●金獎獎



●2010年EXPO主题馆 选用本公司大功率白光产品作泛光照明，协助安装设计公司，荣获国家建筑鲁班奖。

Toplight's high power white light LED was selected and used in the 2010 EXPO Theme Pavilion, and also enabled the design company to win the highly coveted Luban national construction prize.
2010年上海世界万博會の主題館に、弊社白色ハイパワーLEDと照明器具が採用され、設計会社と共同提案により、「国家建築魯班獎」を受賞しました。



●上海之心：城市规划馆。选用本公司大功率LED照明511系列，展示上海中心文化风采，已使用三年。

Shanghai urban planning exhibition center, regarded as the heart of Shanghai, has selected Toplight's 511 series high power LED to display Shanghai's cultural style for over 3 years.

上海の心臓部：上海都市計画展示館に、弊社ハイパワーLED 511シリーズが採用されています。上海都市文化の豊かさを演出しています。3年間使用しています。



●上海外滩代表建筑：和平饭店。使用TOPLIGHT产品。

Peace Hotel, the landmark of the Bund, uses Toplight high power LEDs for various lighting projects.

上海外灘の代表建築：和平ホテルにTOPLIGHT製品が採用されています。

自动生产线 Automatic Production Line 自動製造ライン

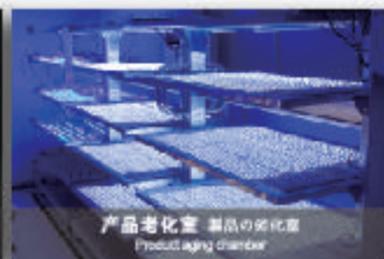
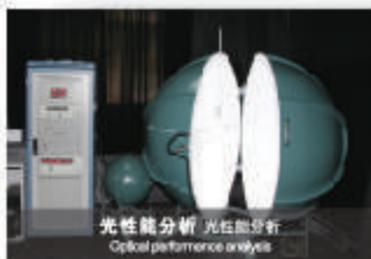


生产现场 製造現場 Production Site

鼎晖科技拥有防静电生产线，高温老化房，无尘室等基础设施。拥有目前LED制造业最先进的ASM全自动化晶片粘着机，ASM自动金/铝线焊接机，金线表面焊接机，日本MUSASHI荧光喷涂设备，精密热阻分析仪，光强分布光度计，光色分布分析系统，冷热冲击老化系统等专业研发、生产设备。年均200亿个光源点。

Toplight's production sites are fully equipped with the latest SGS certified clean room, anti-static controlled production line, high temperature burn in testing room, etc. Toplight uses the most advanced equipments such as ASM's latest machinery for its fully automated chip and wire bonding process, MUSASHI phosphor dispensing equipment, precision thermal resistance analyzer, intensity distribution photometer, light distribution analysis system, thermal cycle impacting aging system, etc., to ensure the highest quality products. Annual capacity exceeds 20 billion chips.

鼎晖会社は、静電気対応生産ライン、高温エージング室、クリーンルーム室を備え、生産設備は、最新鋭機のASM製全自動ダイボンディング機、全自動アルミ・金線ワイヤ・ボンディング機を導入、蛍光粉塗布機は、日本のMUSASHI製を導入、信頼性検査設備は、精密熱分析装置、光強度分布光度計、光色分布解析システム、熱衝撃エージングシステムを持ち、年間約200億チップの生産能力を持っています。



产品规格目录 製品規格目録 Catalogue

产品说明 製品の説明 Product description	01-04
数码管 セグメントLED Seven segment Display	05-38
指示符 インジケータ LED Symbol	39-46
点阵模块 ドットマトリックス Dot matrix Display	47-76
发光二极管 発光ダイオード LED Lamps	77-84
贴片式LED SMD LED	85-88
背光源 バックライト Backlight	89-92
大功率LED零件 ハイパワーLED部品 High Power LED Lamp	93-94
COB LED模组 COB LEDモジュール COB LED Module	95-102



How to use LED Products

如何使用指示类LED产品

Soldering technology 焊接工艺	Iron Soldering 烙铁焊接		Wave soldering 波峰焊接	
	Iron Temperature 烙铁尖温度	< 350°C 350°C以下	Preheat temperature 预热温度	< 120°C 120°C以下
Soldering time 焊接时间	< 3 sec 3秒以内	Preheat time 预热时间	< 120 sec 120秒以下	
Soldering position 焊接位置	more than 1/16 inch from the 距LED底部1/16英寸以上	Tin stove temperature 锡炉温度	< 260°C 260°C以下	
Soldering power 烙铁功率	≤ 40W	Dip soldering time 浸焊时间	3 sec 3秒	
Soldering number 焊接次数	One time 1次	Soldering number 焊接次数	One time 1次	
		Soldering position 焊接位置	more than 1/16 inch from the 距LED底部1/16英寸以上	
Clean 清洗	<p>1. Avoid using unknown chemical liquid to wipe the digital display, if it is necessary, please make sure that the contain chemical composition won't cause corrosion to the device. 避免使用不明化学液体擦拭数码显示器件, 如果一定要擦拭, 请先确认其所含化学成分是否会对器件造成腐蚀。</p> <p>2. Alcohol is recommended, wipe under normal temperature and use less than one minute meanwhile, avoid device soak in alcohol. 通常推荐使用酒精, 在常温下擦拭, 时间不超过1分钟; 同时应避免将器件浸泡在酒精中。</p>			
	<p>1. Please do not exceed the rated current when using. 使用时勿超出额定电流。</p> <p>2. In the application circuit, must limit current, when the luminous intensity meet the requirement drive current less than rated current recommend that. 在应用电路中, 限流措施是必须的, 在发光亮度满足要求的前提下, 建议使用低于额定电流的驱动电流。</p> <p>3. In the application circuit, should consider the difference between each led and V_f, set upper and lower of the drive current reasonable. Avoid brightness difference caused by current factor, recommend constant current drive. 应用电路设计时, 应考虑每颗LED之间的 V_f 差异, 合理设置驱动电流上下限, 避免电流因素带来的亮度差异, 推荐恒流驱动。</p> <p>4. Using spectrophotometric color products, avoid uneven brightness and color difference, should match the product grades we provide. 使用经过分光分色的产品时, 应该按照我们提供的等级配置使用, 以免造成亮度不均和色差差异。</p>			
Forward current 正向电流	<p>1. This product avoid storing under high temperature humidity, dirty or corrosive inappropriate environment. Recommend storage condition: temperature 25±5°C; humidity ≤ 60%RH. 此产品应避免存放于如高温、高湿、不洁或有腐蚀性的不适宜环境下, 建议储存条件: 温度 25±5°C; 湿度 ≤ 60%RH。</p> <p>2. Don't bend PIN or let PIN under heavy pressure. 不要弯曲PIN或使其受到重压。</p> <p>3. Guarantee the solderability of the product, the best storage time is one year. 此产品的最佳保存时间为1年, 以确保产品的可焊性。</p> <p>4. Product has been stored for a long time need dehumidification process before soldering. 产品经过长时间存储在焊接前需做除湿处理。</p>			
Storage 产品储存	<p>1. This product avoid storing under high temperature humidity, dirty or corrosive inappropriate environment. Recommend storage condition: temperature 25±5°C; humidity ≤ 60%RH. 此产品应避免存放于如高温、高湿、不洁或有腐蚀性的不适宜环境下, 建议储存条件: 温度 25±5°C; 湿度 ≤ 60%RH。</p> <p>2. Don't bend PIN or let PIN under heavy pressure. 不要弯曲PIN或使其受到重压。</p> <p>3. Guarantee the solderability of the product, the best storage time is one year. 此产品的最佳保存时间为1年, 以确保产品的可焊性。</p> <p>4. Product has been stored for a long time need dehumidification process before soldering. 产品经过长时间存储在焊接前需做除湿处理。</p>			

QUALITY CONTROL AND QUALITY ASSURANCE

品质管控与品质保证

* For Displays only

CLASSIFICATION 类别	TEST ITEM 检验项目	DESCRIPTION AND TEST CONDITION 检验条件
RELIABILITY TEST 信赖性测试	OPERATION LIFE 使用寿命测试	Evaluate operation life of the device under strong current 评估器件在强电流条件下的使用寿命 Ta=under room temperature 温度: 室温 If=12mA-25mA per segment or Ip=80mA/duty=1/8, Pw=1.25mS Ip=180mA/duty=1/16, Pw=1.2mS(DOT) Test time=1000HRS(-24HRS+72HRS) 测试时间: 1000 (-24+72) 小时
	HIGH TEMPERATURE HIGH HUMIDITY STORAGE 高温高湿保存测试	Evaluate storage time of the device under high temperature and high humidity 在高温高湿的条件下评估器件的可保存时间 Ta=65°C±5°C 温度: 65°C±5°C RH=90-95% 湿度: 90-95% Test time =240HRS±2HRS 测试时间: 240±2小时
	HIGH TEMPERATURE HIGH HUMIDITY REVERSE BIAS 高温高湿冲击测试	Evaluate leakage current of the device under high temperature and high humidity 在高温高湿强电流条件下评估器件的漏电流 Ta=65°C±5°C 温度: 65°C±5°C RH=90-95% 湿度: 90-95% VR=5V 反向电压: 5V Test time=500hrs(-24HRS+48HRS) 测试时间: 500 (-24+48) 小时
	HIGH TEMPERATURE STORAGE 高温保存测试	Evaluate reliability test of the device under high temperature 评估器件在高温条件下的信赖性测试 Ta=85±5°C 温度: 85±5°C Test time=1000HRS(-24HRS+72HRS) 测试时间: 1000 (-24+72) 小时
	LOW TEMPERATURE STORAGE 低温保存测试	Evaluate reliability test of the device under low temperature 评估器件在低温条件下的信赖性测试 Ta=-35°C±5°C 温度: -35°C±5°C Test time=1000HRS(-24HRS+72HRS) 测试时间: 1000 (-24+72) 小时
ENVIRONMENTAL TEST 环境测试	TEMPERATURE CYCLING 温度循环测试	Evaluate thermal expansion and cold contraction of the device under harsh temperature 评估器件在恶劣温度条件下的热胀冷缩变化 Ta=85°C - 2.5°C - -35°C - 2.5°C 温度: 85°C - 2.5°C - -35°C - 2.5°C time=30min 5min 30min 5min 时间: 30分5分30分5分 Cycle test: 10cycles 循环次数: 10次
	THERMAL SHOCK 温度冲击测试	Evaluate structural and mechanical of the device under sudden thermal shock 评估器件在温度突然冲击下的结构和机械的信赖性状况 Ta=85°C±5°C - -35°C±5°C 温度: 85°C±5°C - -35°C±5°C time=10min 10min 时间: 10分10分 Cycle test: 10cycles 循环次数: 10次
	* SOLDERING RESISTANCE 耐焊性能测试	Evaluate performance of the device withstand thermal shock during soldering 评估器件在焊接时承受热冲击的性能 Tsol=260°C±5°C 温度: 260°C±5°C time=10±1sec 时间: 10±1秒
	* SOLDERABILITY 可焊性测试	Evaluate solderability of the device 评估器件的可焊性 Tsol=230°C±5°C 温度: 230°C±5°C time=5±1sec 时间: 5±1秒

*Distance from the bottom must more than 1/16 inch in all soldering test.
所有测试焊接需距离1/16英寸以上。

GENERAL INFORMATION

基本信息

ABSOLUTE MAXIMUM RATINGS 各项的最大使用范围

1. Test Condition For Each Parameter (各项参数的测试条件)

Parameter 参数	Symbol 符号	Unit 单位	Test Condition 测试条件
Reverse Voltage 反向电压	V_r	V	
Reverse Current 反向电流	I_r	μA	$V_r = -5.0V$
Forward Voltage 正向电压	V_f	V	$I_f = 20mA$
Luminous Intensity 亮度	I_v	mod	$I_f = 10mA$
Half-Wave width 半波宽度	$\Delta\lambda$	nm	$I_f = 20mA$
Power Dissipation 功耗	P_d	mw	$I_f = 20mA$
Peak Current (Duty 1/10 1KHZ) 峰值电流	$I_{f peak}$	mA	$I_{f peak} = 150mA$

2. Absolute Maximum Ratings (绝对最大额定参数)

Reverse Voltage 反向电压	5.0V
Reverse Current ($V_r = 5V$) 反向电流 ($V_r = 5V$)	$\leq 20\mu A$
Operating Temperature Range 使用温度范围	$-25^\circ C \sim +85^\circ C$
Storage Temperature Range 贮存温度范围	$-30^\circ C \sim +85^\circ C$

3. ELECTRICAL-OPTICAL CHARACTERISTICS (光电特性)

- The digits are categorized for luminous intensity with the intensity category designated by a letter located on the bottom of the MARK.
亮度等级代码将标示在产品命名符的右边。
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE(International Commission On Luminance) eye-response curve.
由光敏感元件和组合滤光器来测试亮度是否符合CIE标准的人眼响应曲线。

For Digit Display Only 数码管亮度等级分类表

1. The BIN brightness classification is as follows (亮度分类如下):

$T_f = 10mA/SEG$

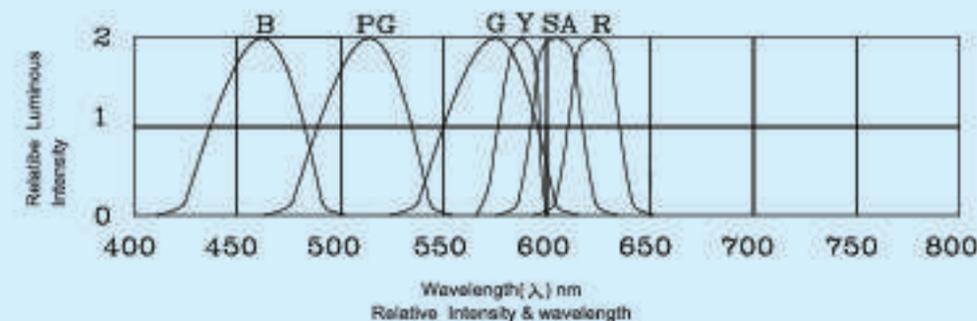
BIN CODE	A	B	C	D	E	F	G	H	K	M	N
RANGE	0	465	651	911	1275	1786	2501	3501	4726	6145	7988
(mod)	464	650	910	1274	1785	2500	3500	4725	6144	7987	10383

BIN CODE	P	R	S	T	U	V	W	X
RANGE	10384	13500	17550	26326	39490	59236	88855	133284
(mod)	13499	17549	26325	39489	59235	88854	133283	199926

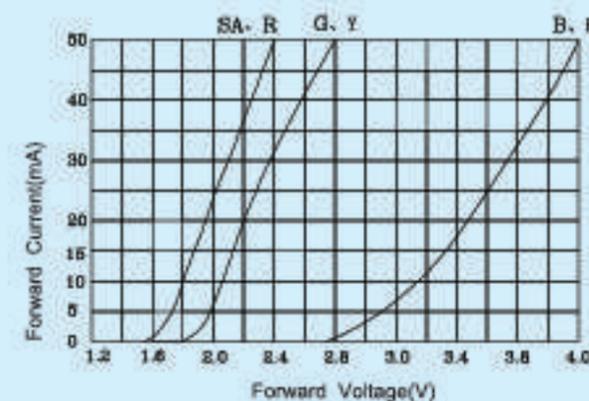
Typical Electrical/Optical Characteristic Curves 光学特性曲线

• Digit Display Department (only)

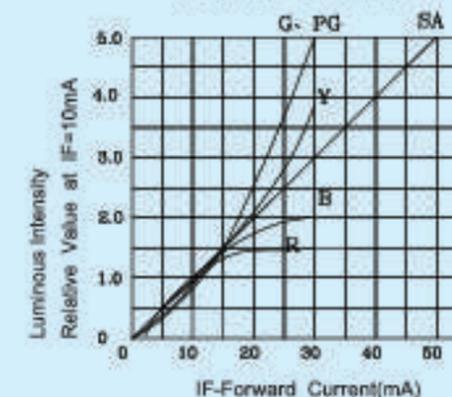
25°C Ambient temperature 温度条件=25°C



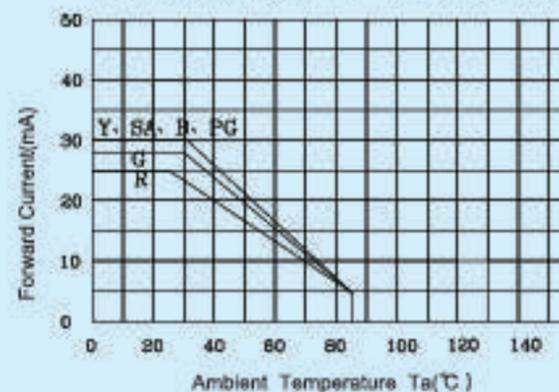
FORWARD CURRENT VS FORWARD VOLTAGE



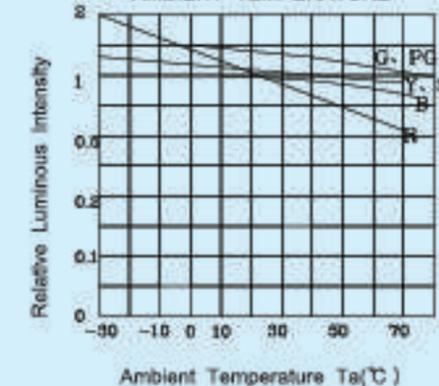
RELATIVE INTENSITY VS FORWARD CURRENT



FORWARD CURRENT VS DERATING CURVE



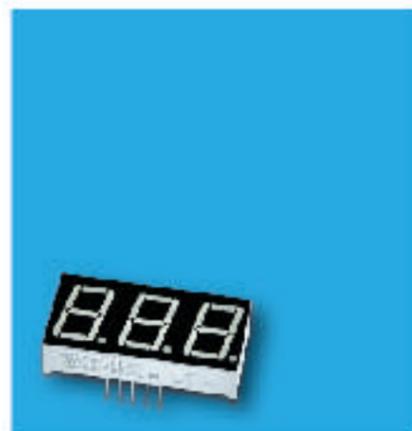
LUMINOUS INTENSITY VS AMBIENT TEMPERATURE



APPLICATION 应用

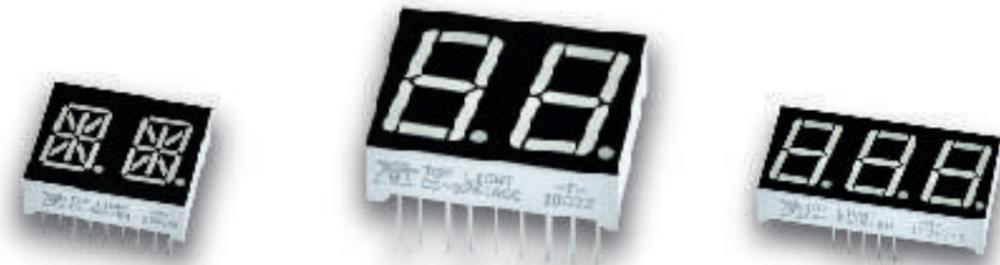
Seven Segment Display LED 数字显示

主要应用于指示仪表、家用电器、数字显示面板等。
For indicating instrument, household appliance, digital display panel.



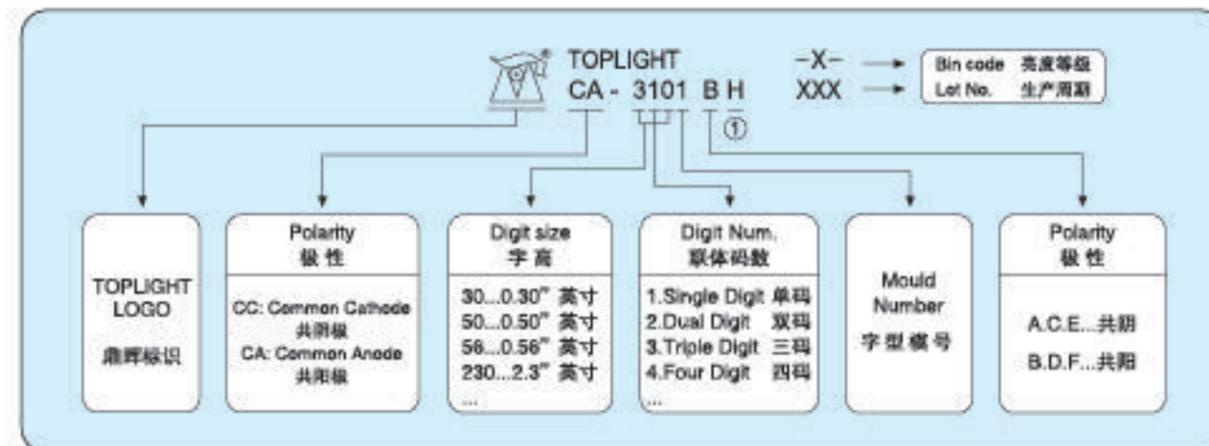
Seven Segment Display

LED 数字显示



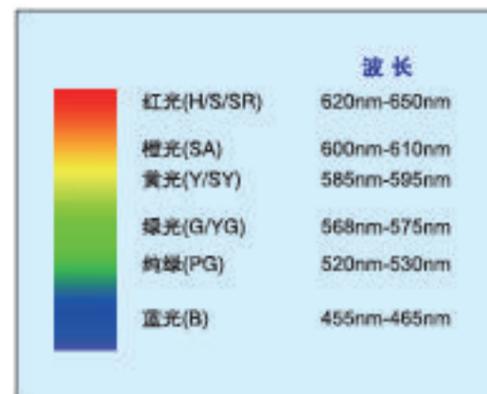
Product Model Specification For Seven Segment Display

数码管命名规则



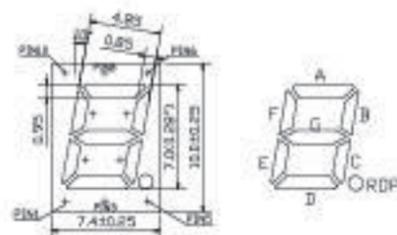
① color code 颜色代码

颜色	颜色代码	λ_p (nm)	V_f (v)
标准红 Red	H	635-650	1.7-2.4
高亮红 Hi-Red	S	630-640	1.8-2.4
超高亮红 Super Red	SR	620-630	1.8-2.4
琥珀色 Amber	SA	600-610	1.8-2.4
橙色 Orange	E	615-620	1.8-2.4
黄 Yellow	SY	585-595	1.8-2.4
标准黄绿 Yellow Green	G	568-575	1.9-2.4
高亮黄绿 Hi-Yellow Green	YG	568-575	1.9-2.4
纯绿 Pure Green	PG	520-530	2.8-3.4
蓝 Blue	B	460-470	2.8-3.4
白 White	W	-	2.8-3.4

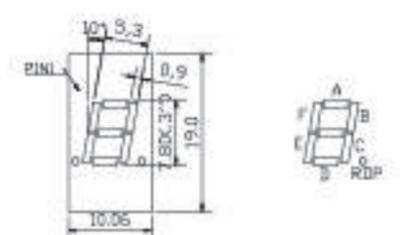


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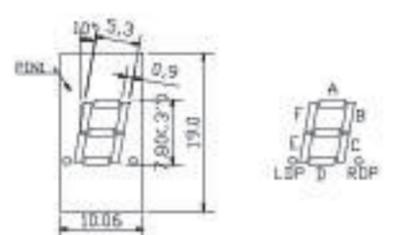
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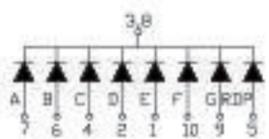
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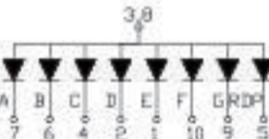
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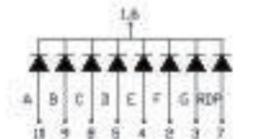
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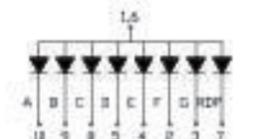
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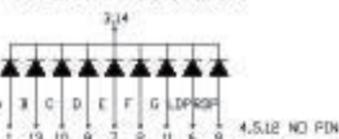
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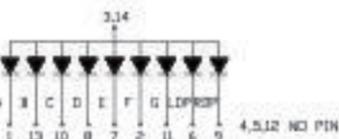
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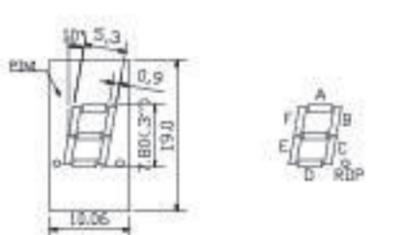
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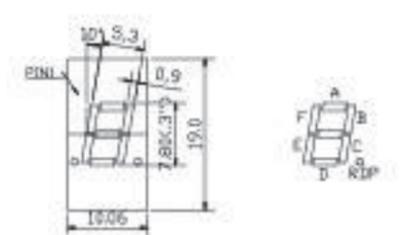
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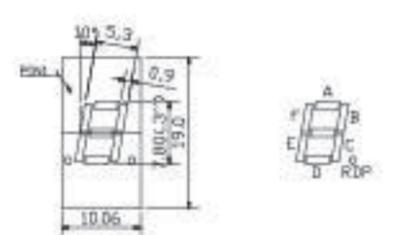
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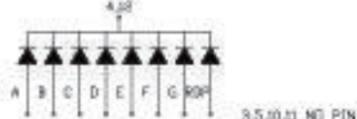
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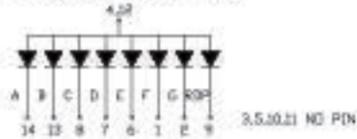
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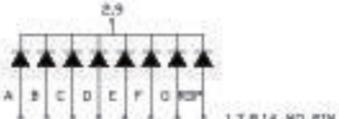
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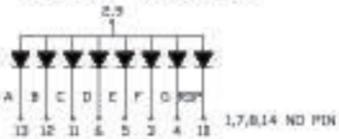
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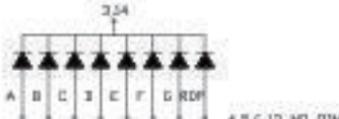
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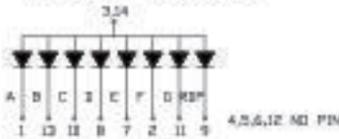
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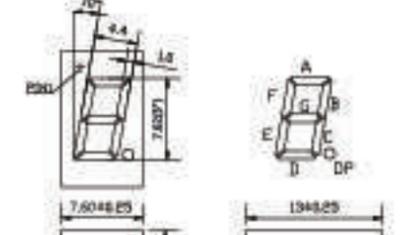
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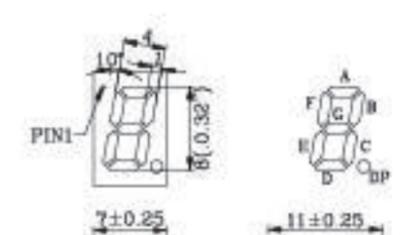
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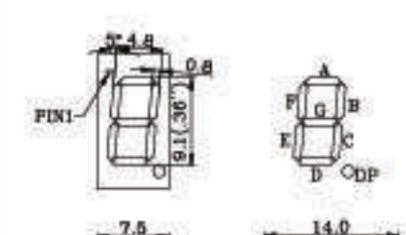
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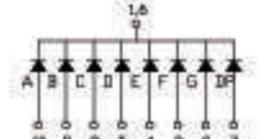
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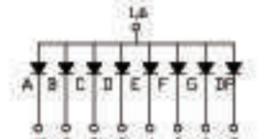
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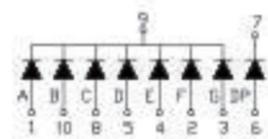
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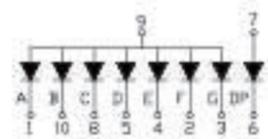
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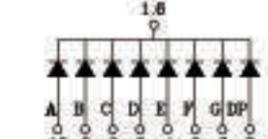
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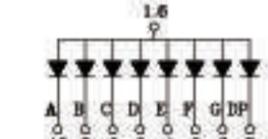
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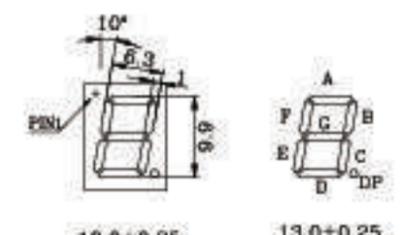
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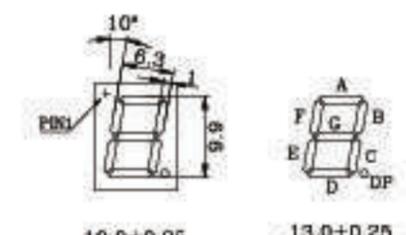
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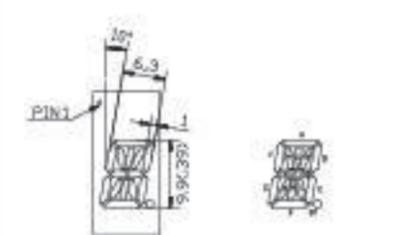
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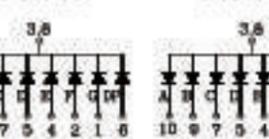
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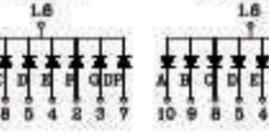
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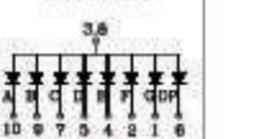
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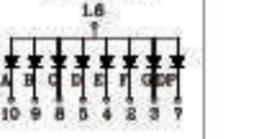
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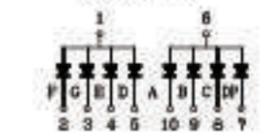
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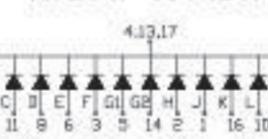
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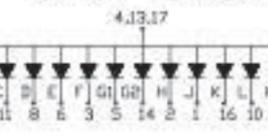
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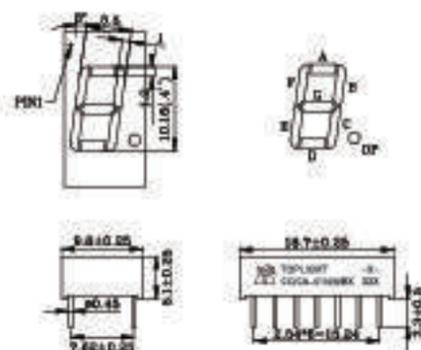


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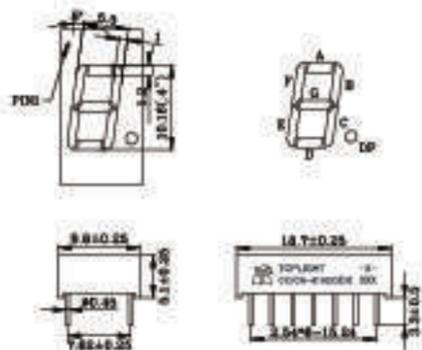


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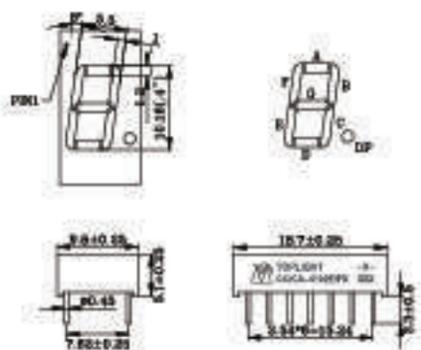
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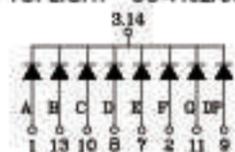
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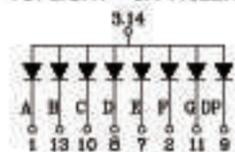
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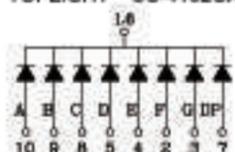
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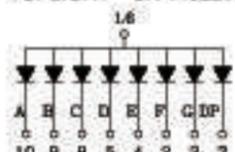
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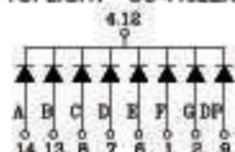
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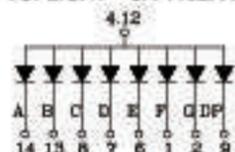
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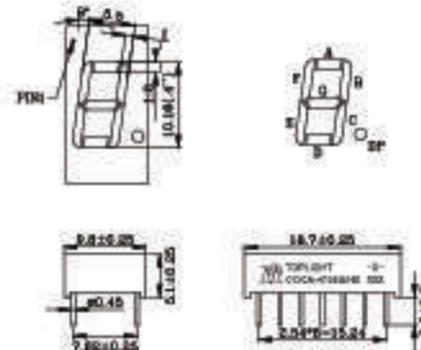
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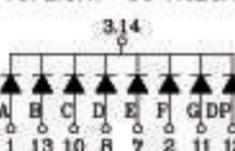
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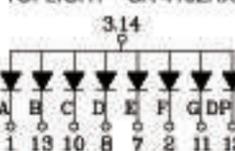
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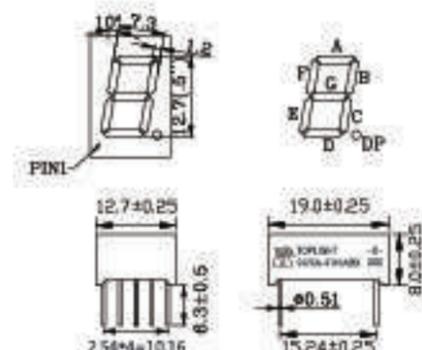
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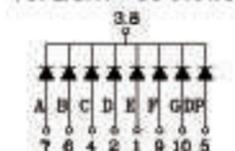
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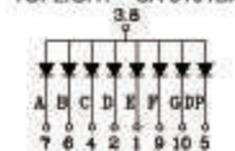
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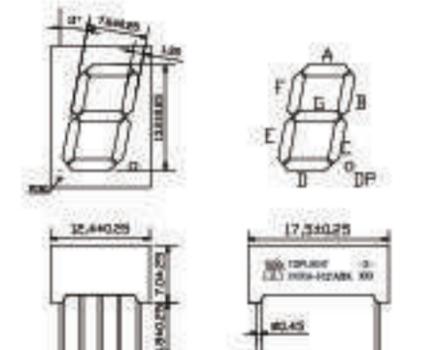
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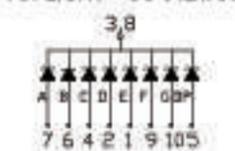
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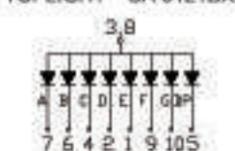
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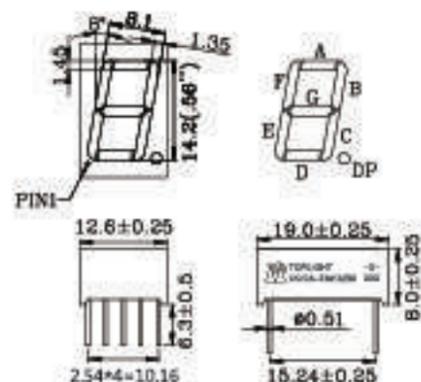
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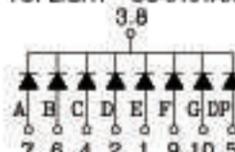
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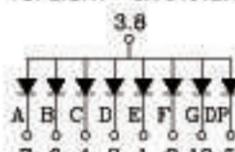
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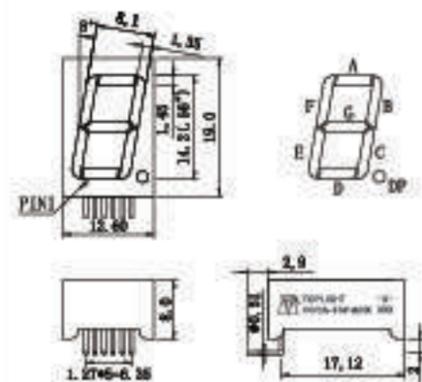
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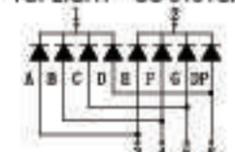
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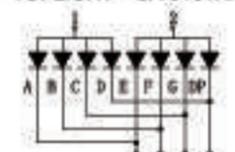
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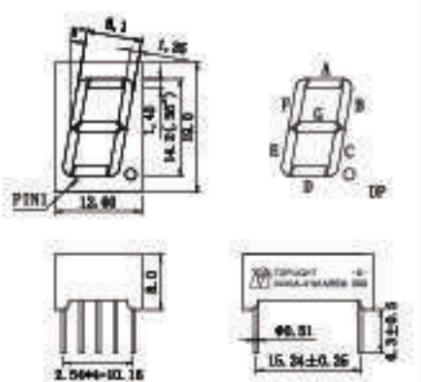
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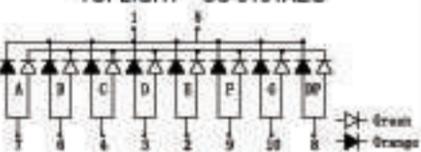
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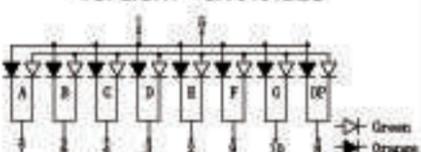
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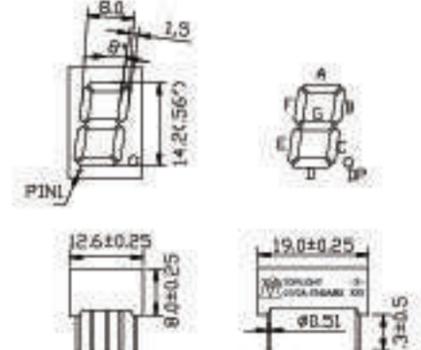
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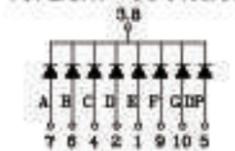
TOPLIGHT CA-5161BEG



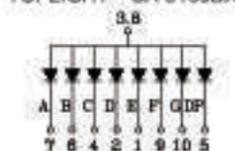
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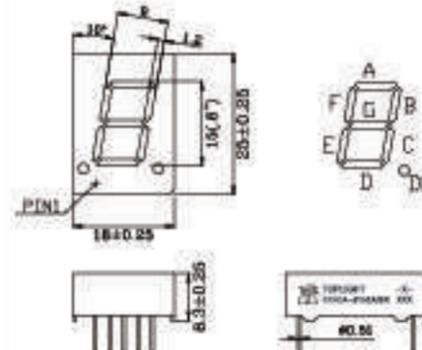
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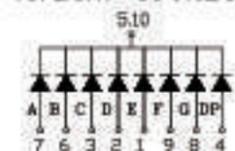
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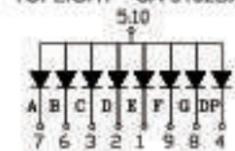
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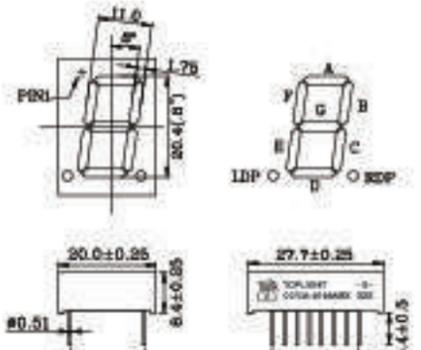
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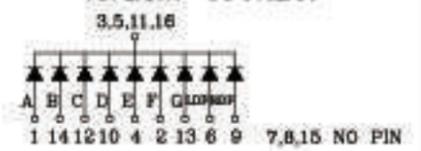
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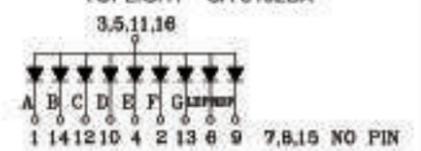
TOPLIGHT CC/CA-8102A/BX



TOPLIGHT CC-8102AX



TOPLIGHT CA-8102BX



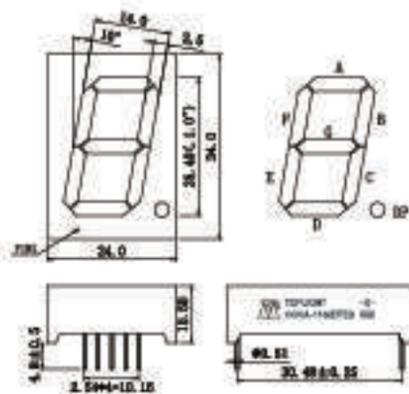
鼎暉科技
TOP LIGHT
SMD Segment Display

<p>TOPLIGHT CC/CA-8103A/BX</p>	<p>TOPLIGHT CC/CA-8103C/DX</p>	<p>TOPLIGHT CC/CA-8105A/BX</p>
<p>TOPLIGHT CC-8103AX</p> <p>TOPLIGHT CA-8103BX</p>	<p>TOPLIGHT CC-8103CX</p> <p>TOPLIGHT CA-8103DX</p>	<p>TOPLIGHT CC-8105AX</p> <p>TOPLIGHT CA-8105BX</p>
<p>TOPLIGHT CC/CA-8105E/FX</p> <p>TOPLIGHT CC-8105EX</p> <p>TOPLIGHT CA-8105FX</p>	<p>TOPLIGHT CC/CA-8106A/BX</p> <p>TOPLIGHT CC-8106AX</p> <p>TOPLIGHT CA-8106BX</p>	<p>TOPLIGHT CC/CA-8106C/DEG</p> <p>TOPLIGHT CC-8106CEG</p> <p>TOPLIGHT CA-8106DEG</p>

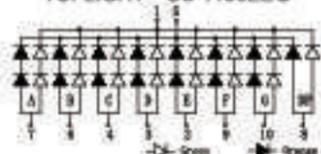
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<p>TOPLIGHT CC/CA-1106A/BX</p> <p>TOPLIGHT CC-1106AX</p> <p>TOPLIGHT CA-1106BX</p>	<p>TOPLIGHT CC/CA-1106A/BEG</p> <p>TOPLIGHT CC-1106AEG</p> <p>TOPLIGHT CA-1106BEG</p>	<p>TOPLIGHT CC/CA-1106C/DEG</p> <p>TOPLIGHT CC-1106CEG</p> <p>TOPLIGHT CA-1106DEG</p>

SMD
Surface Mount Display

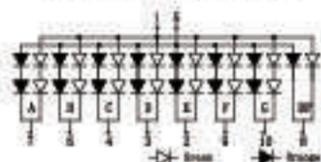
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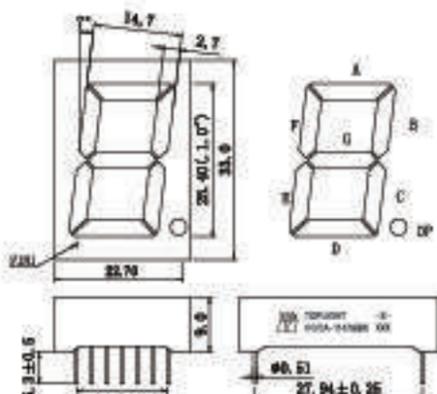
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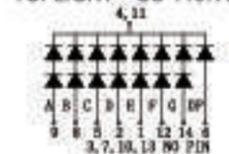
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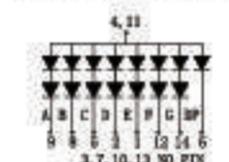
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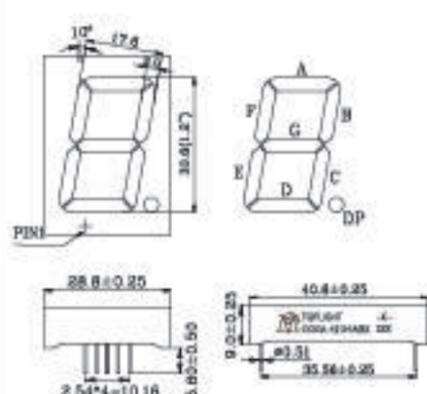
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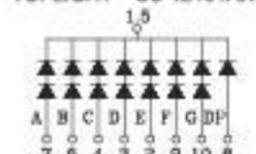
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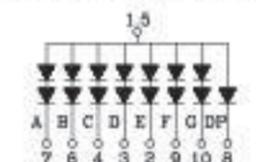
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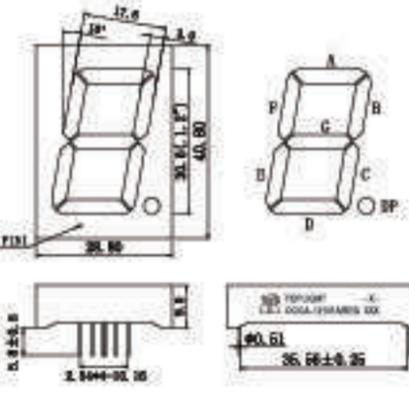
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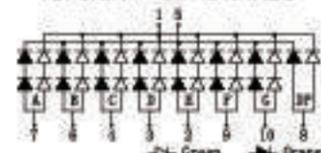
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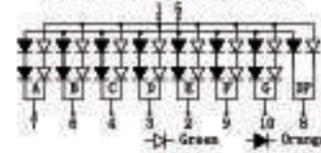
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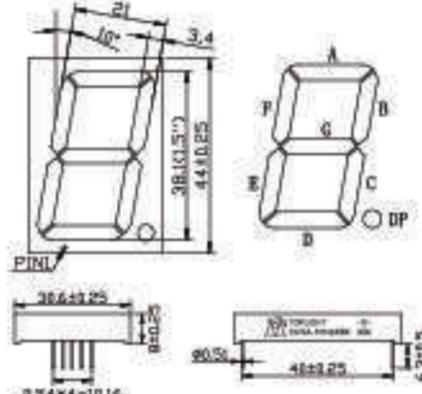
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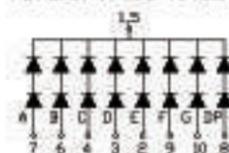
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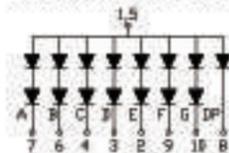
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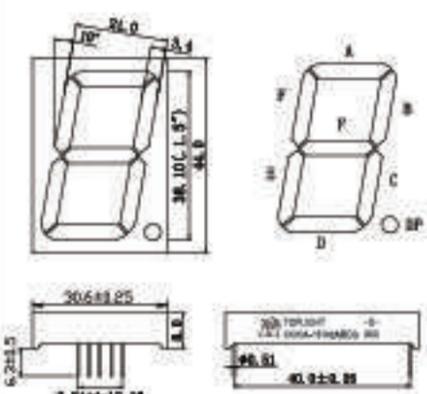
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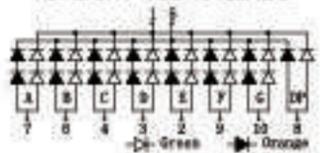
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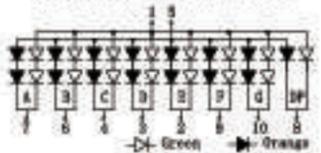
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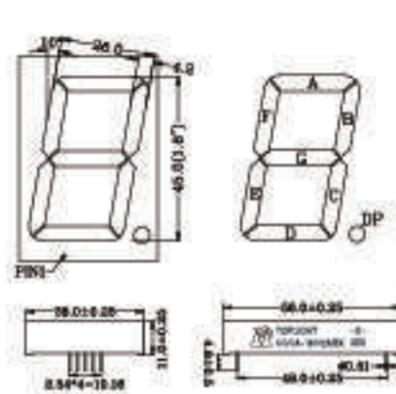
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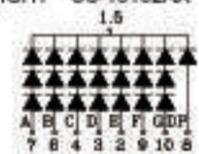
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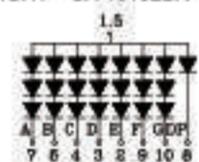
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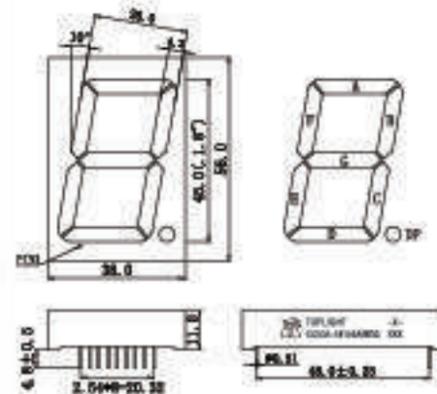
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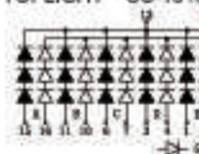
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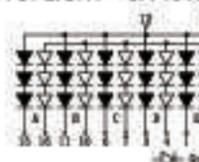
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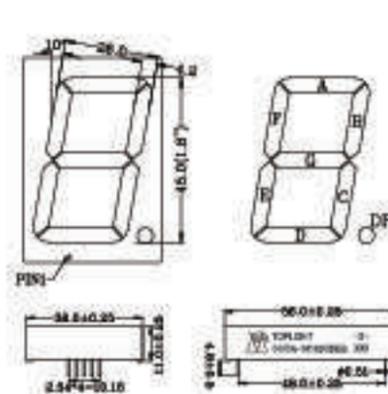
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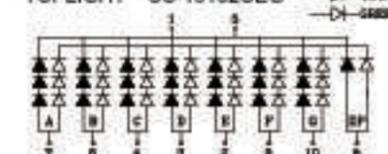
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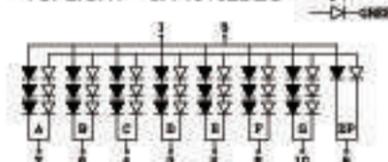
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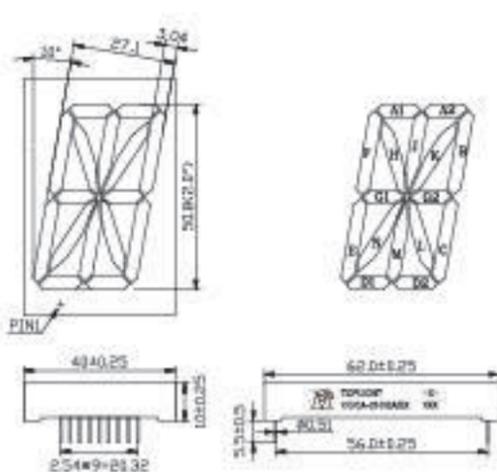
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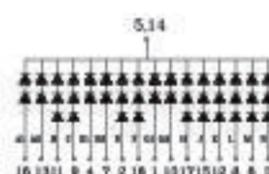
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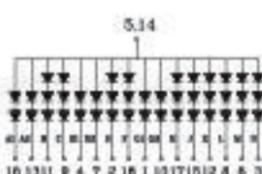
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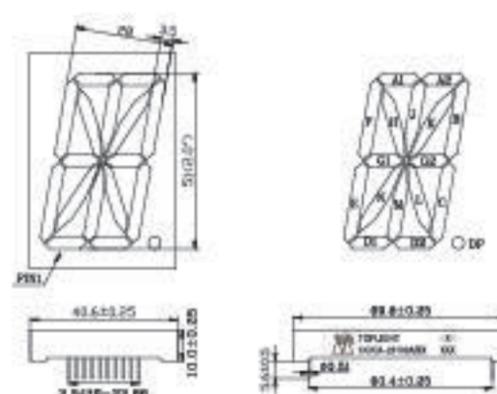
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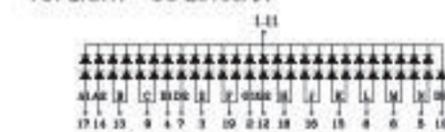
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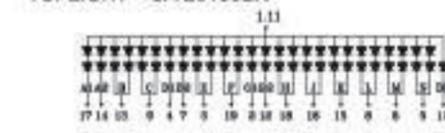
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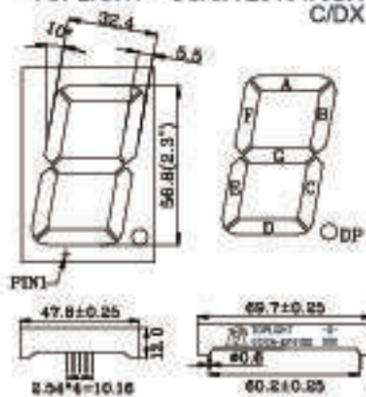


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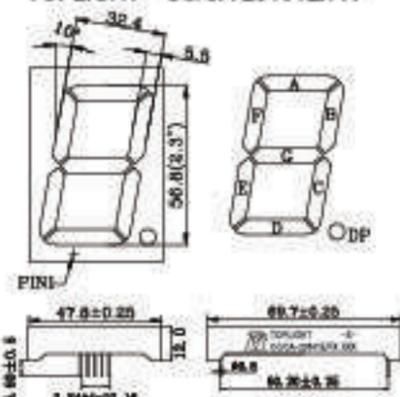


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Seven Segment Display

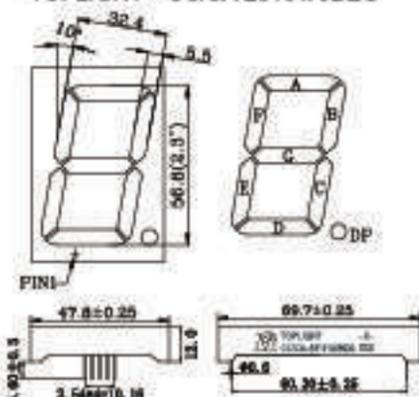
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C/DX



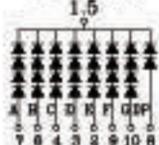
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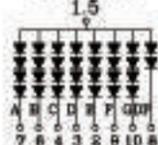
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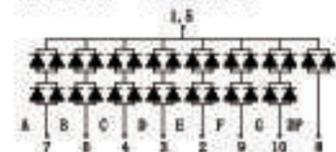
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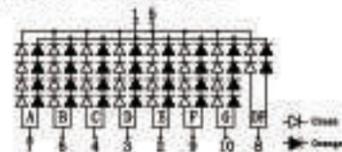
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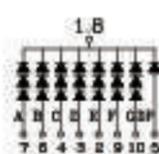
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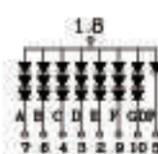
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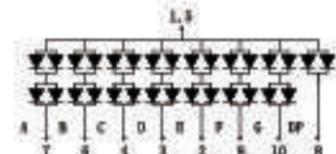
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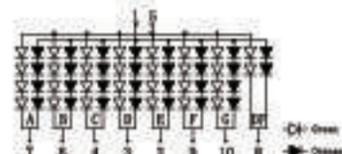
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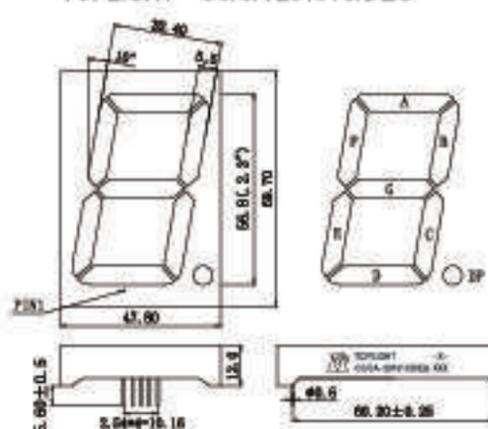
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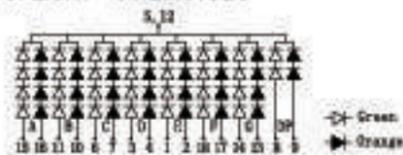
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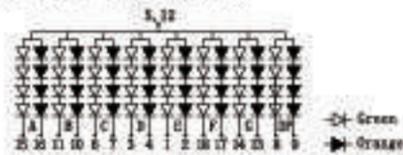
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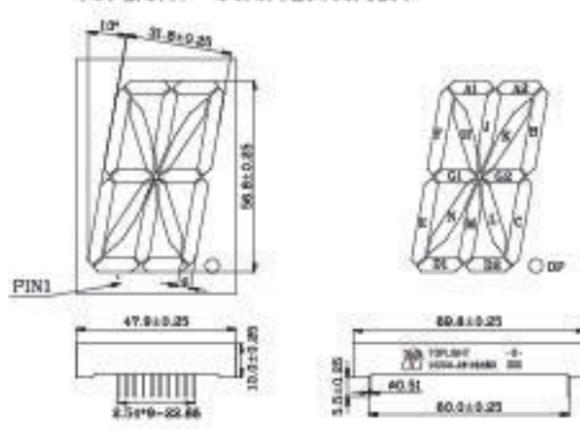
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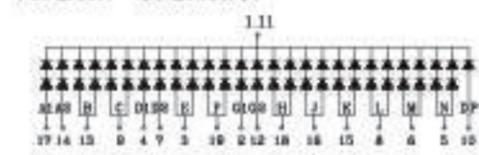
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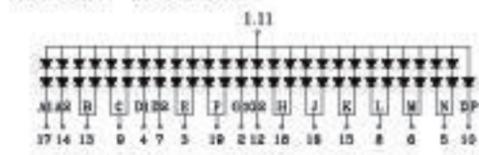
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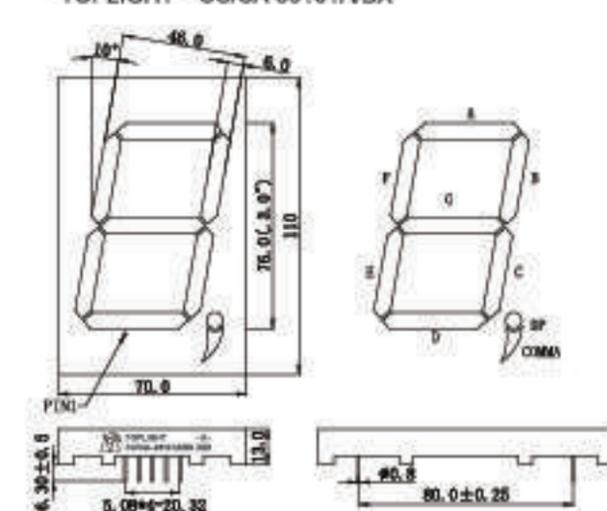
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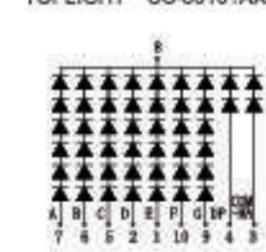
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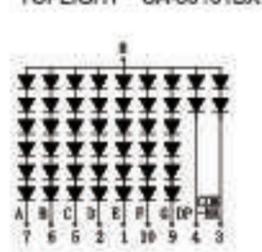
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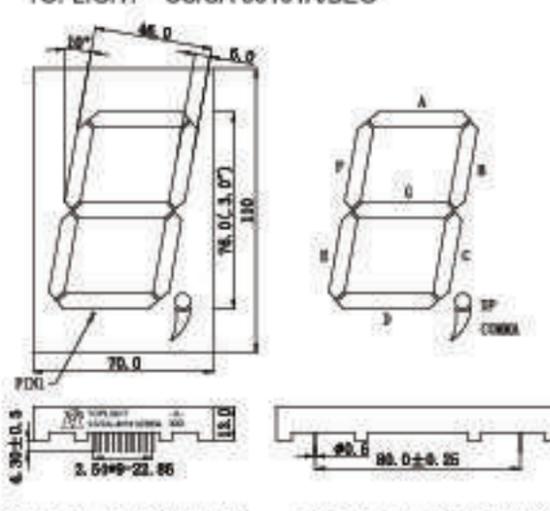
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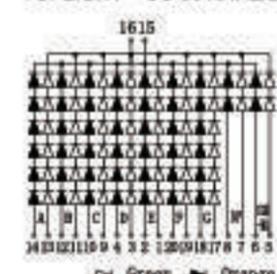
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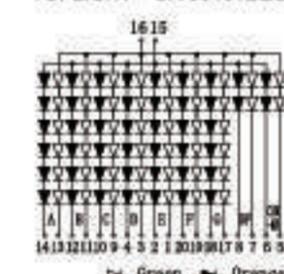
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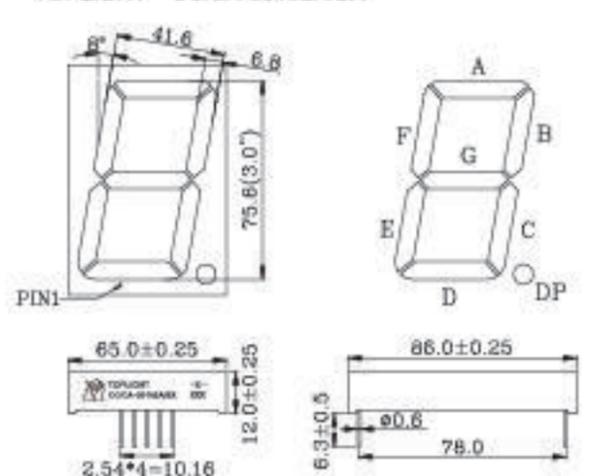
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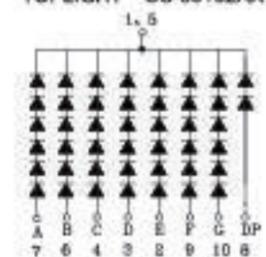
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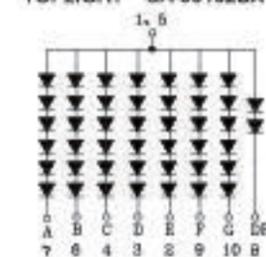
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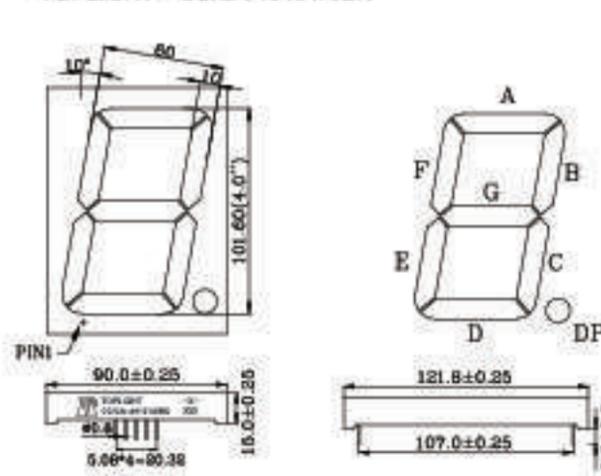
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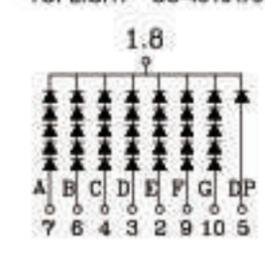
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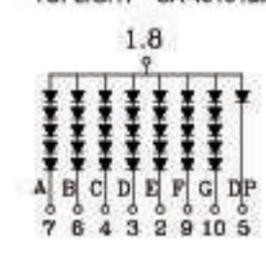
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TOPLIGHT CC-40101AX

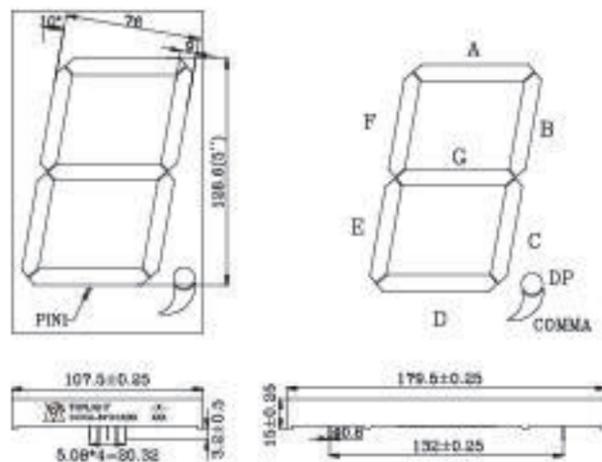


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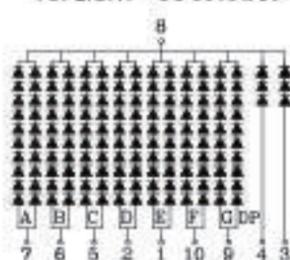


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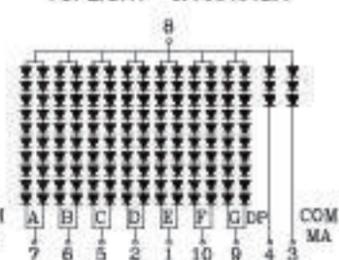
TOPLIGHT CC/CA-50101ABX



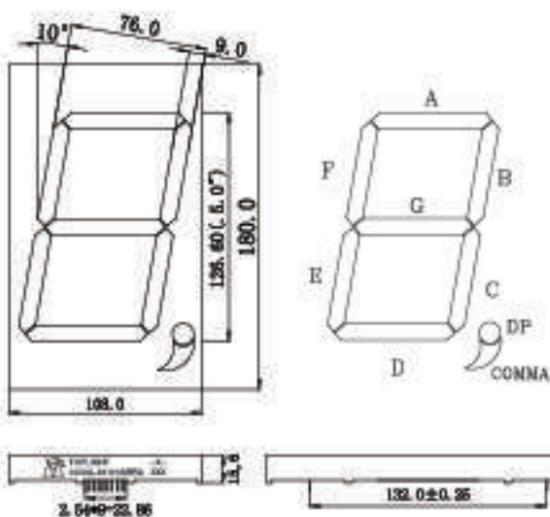
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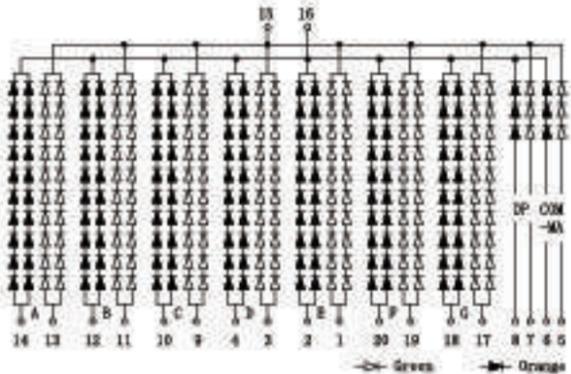
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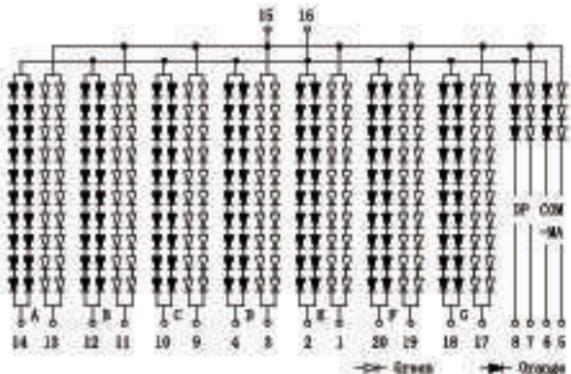
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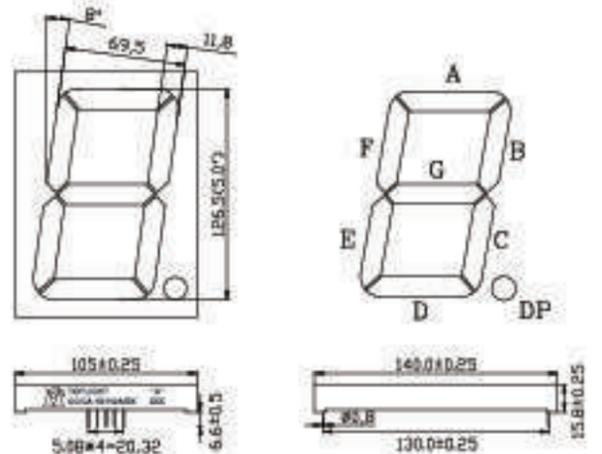
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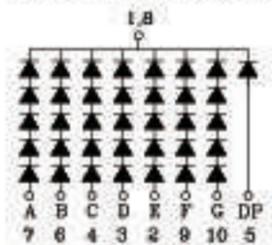
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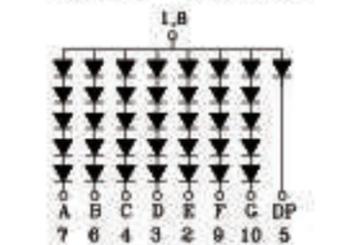
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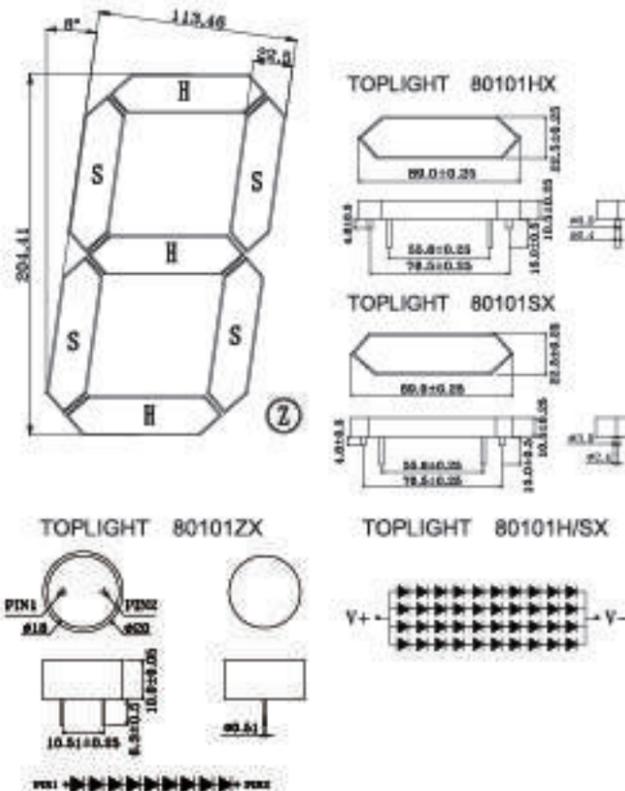
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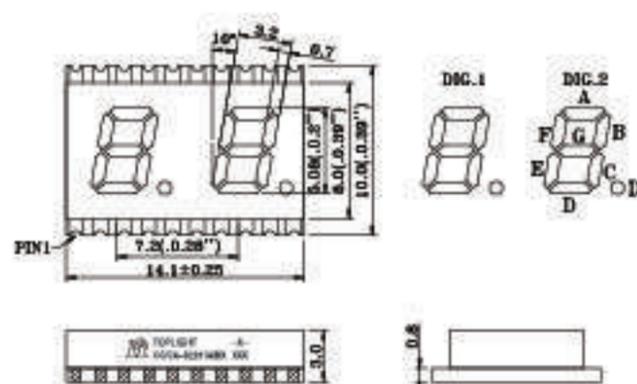
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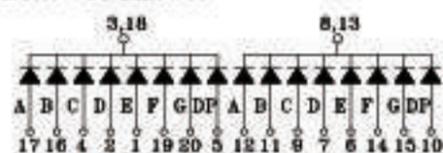
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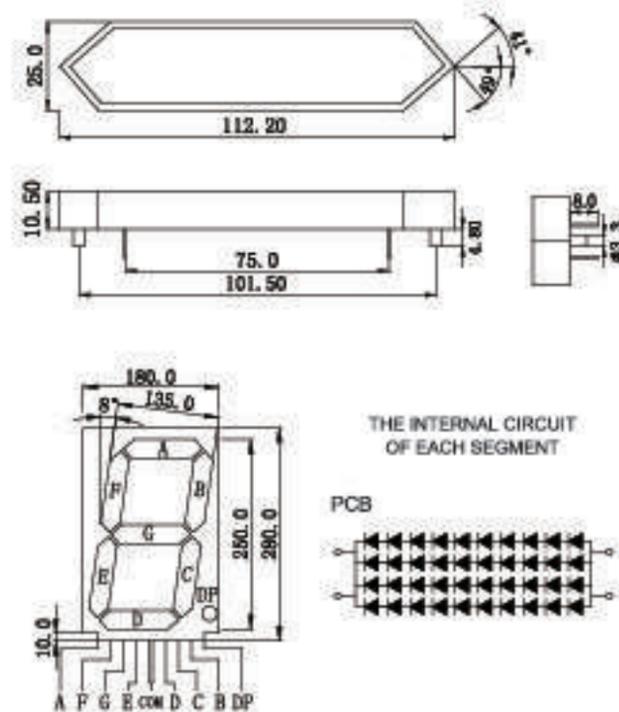
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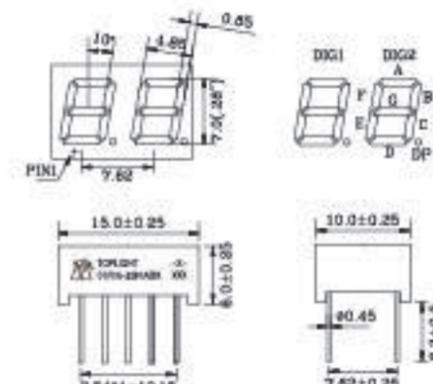
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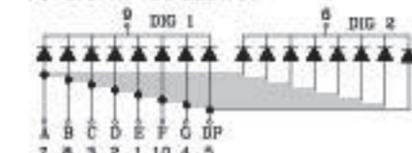
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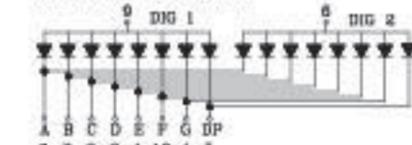
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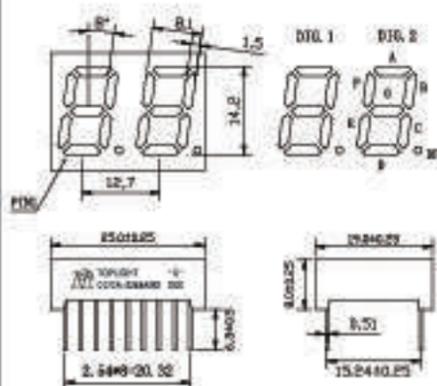
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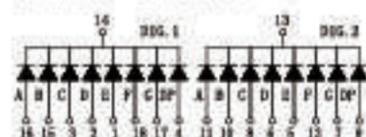
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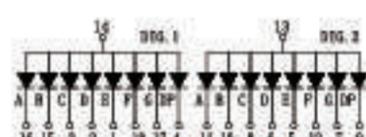
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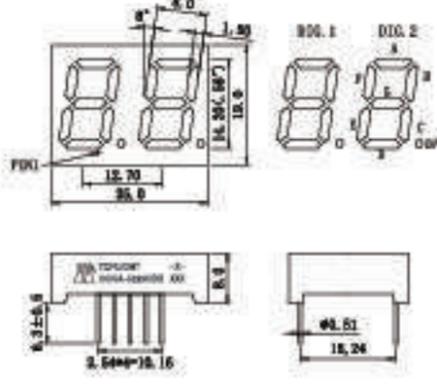
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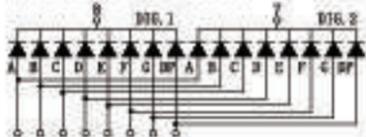
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TOPLIGHT CC/CA-5263C/DX



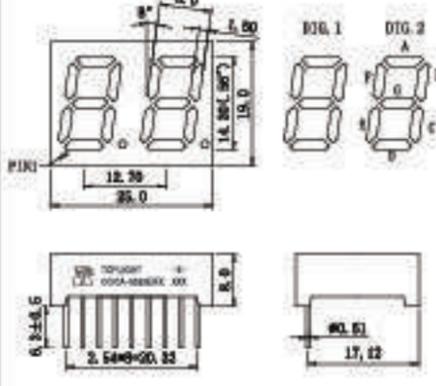
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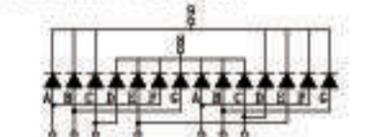
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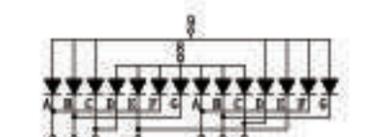
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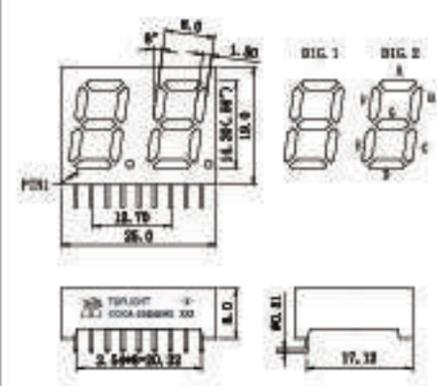
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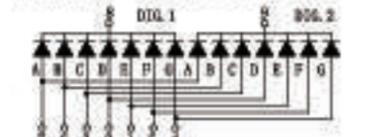
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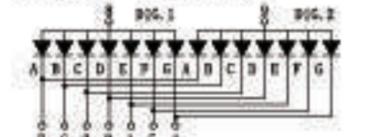
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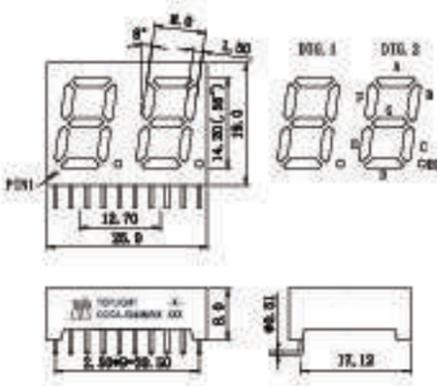
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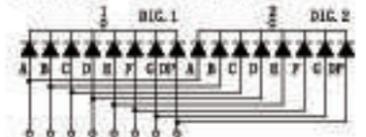
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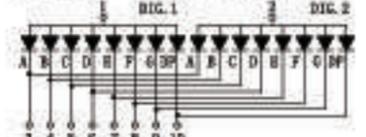
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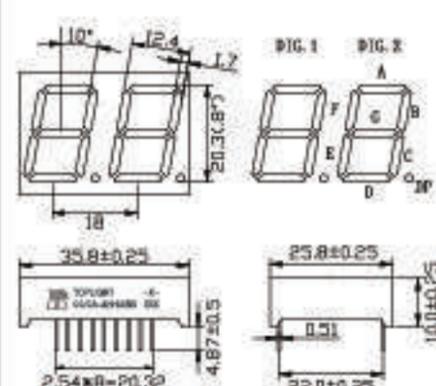
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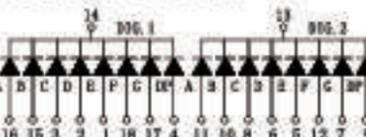
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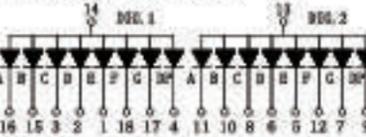
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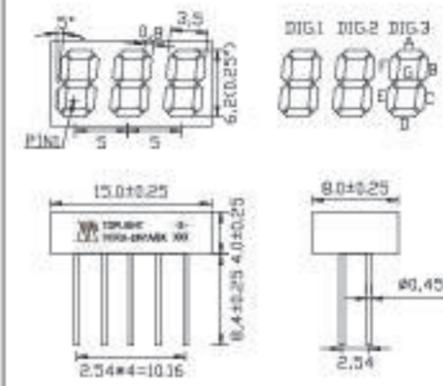
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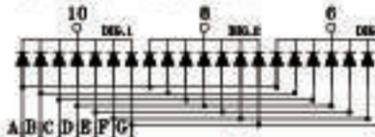
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TOPLIGHT CC/CA-2351A/BX



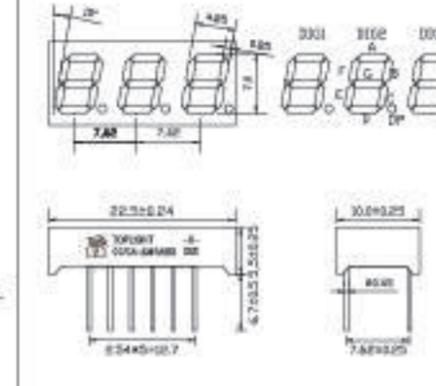
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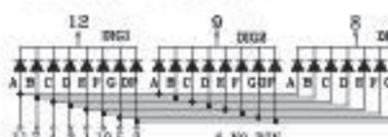
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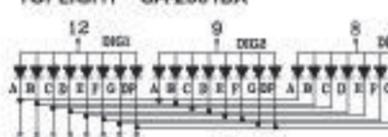
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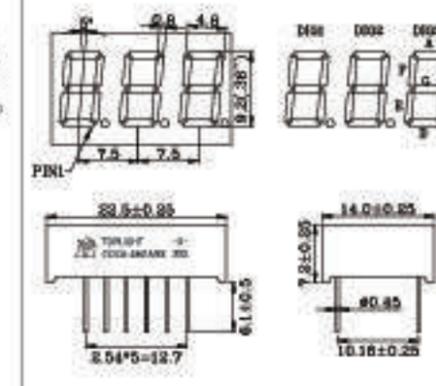
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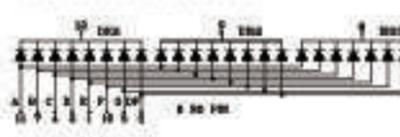
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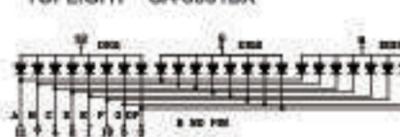
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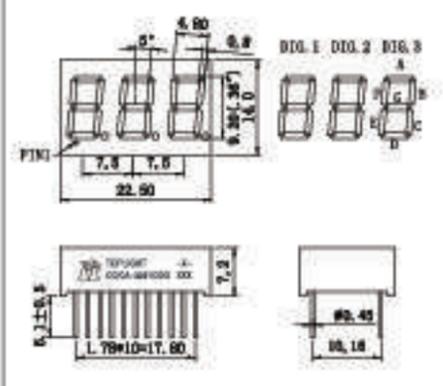
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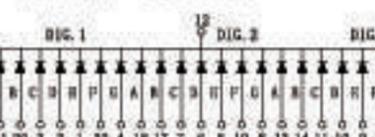
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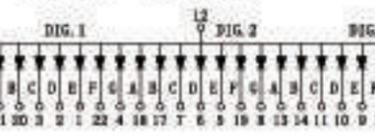
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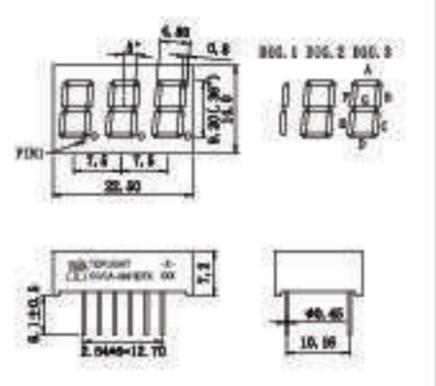
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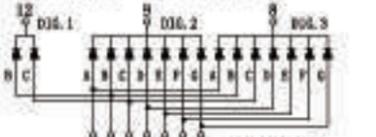
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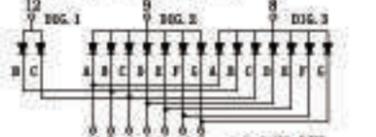
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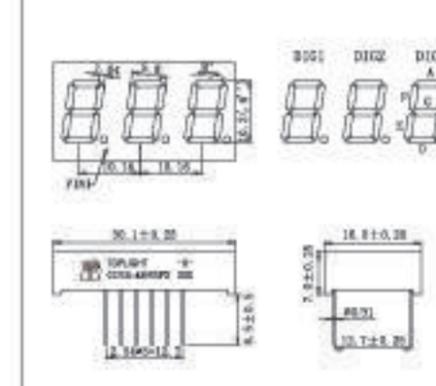
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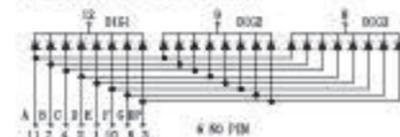
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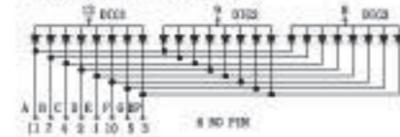
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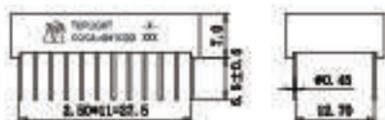
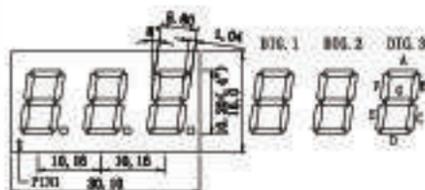


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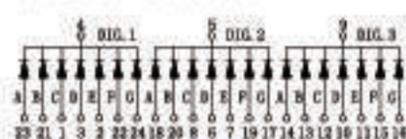


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Segment Display

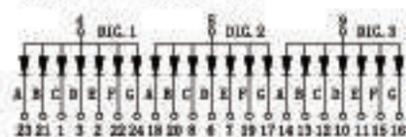
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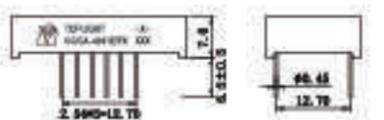
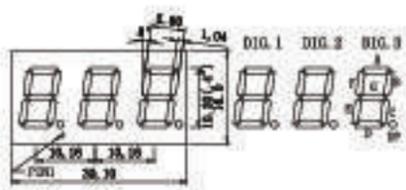
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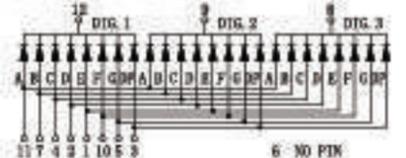
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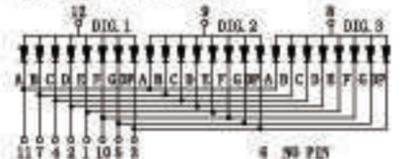
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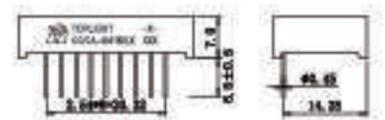
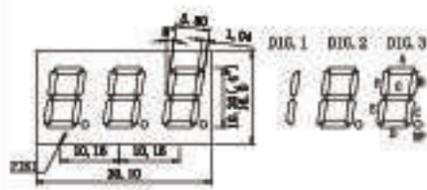
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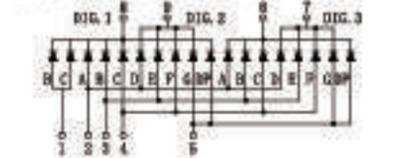
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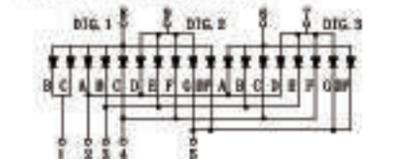
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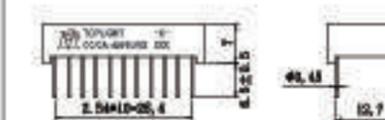
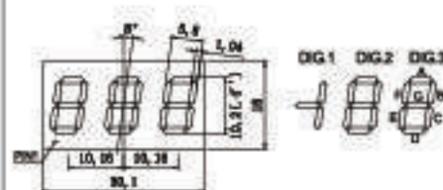
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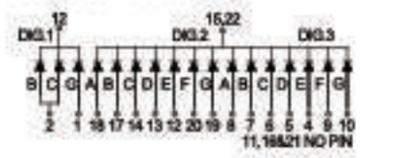
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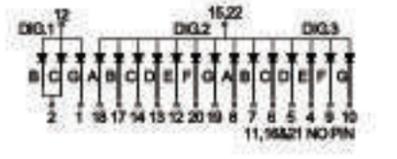
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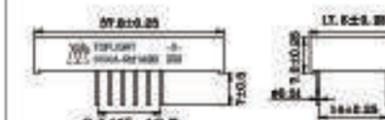
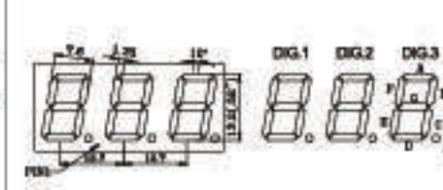
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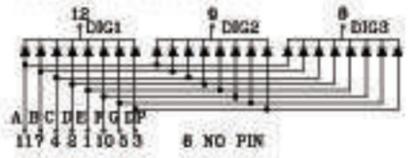
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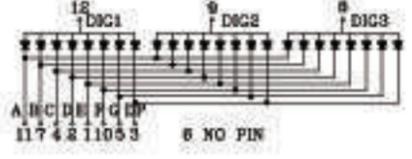
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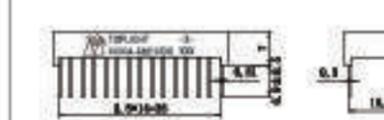
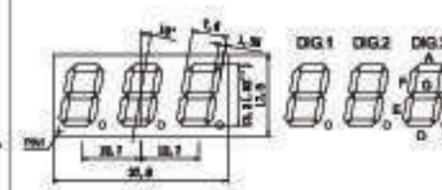
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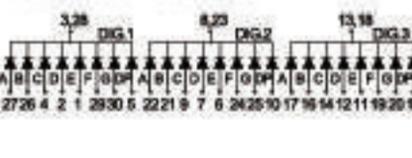
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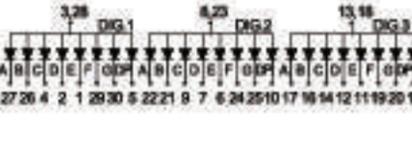
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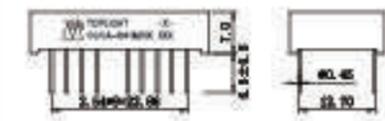
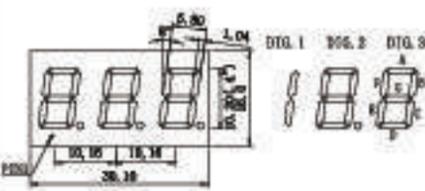
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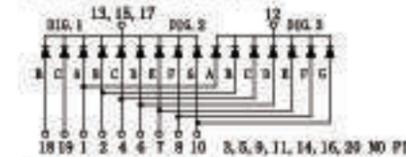
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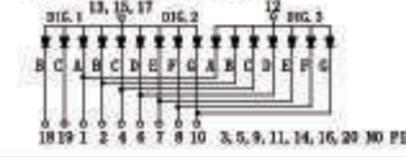
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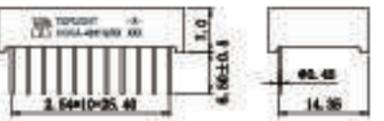
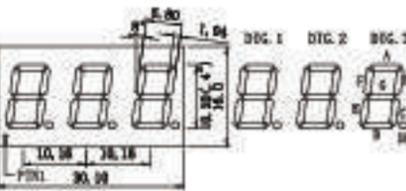
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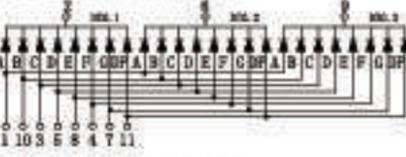
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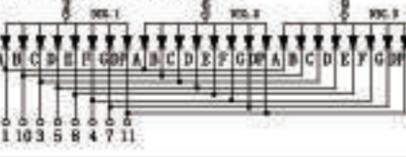
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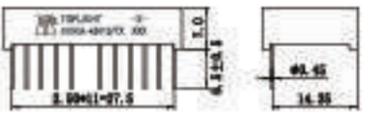
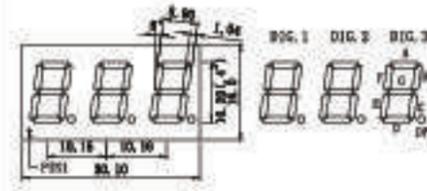
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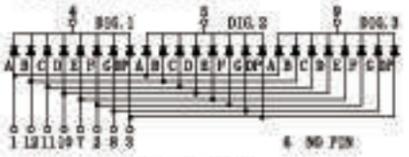
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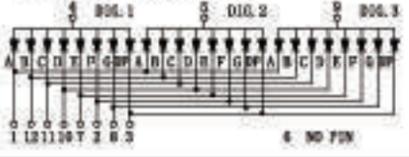
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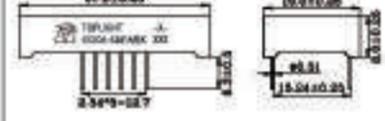
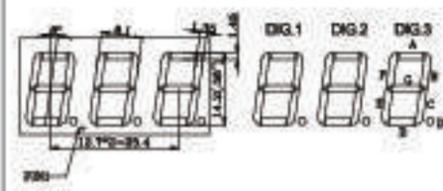
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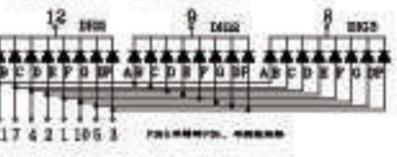
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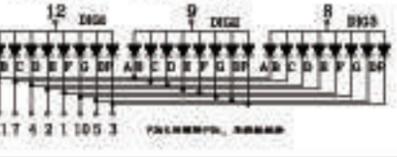
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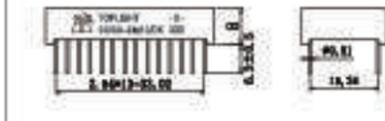
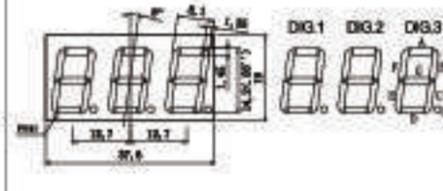
TOPLIGHT CC-5361AX



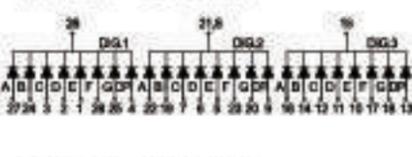
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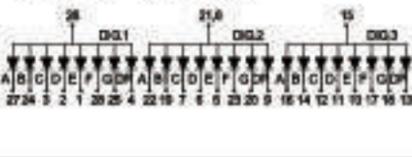
TOPLIGHT CC/CA-5361C/DX



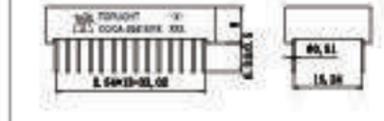
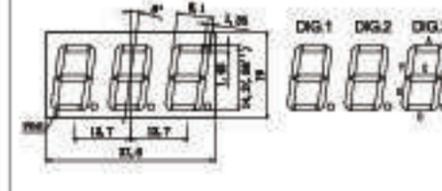
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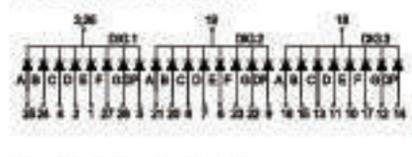
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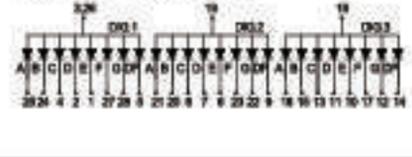
TOPLIGHT CC/CA-5361E/FX



TOPLIGHT CC-5361EX

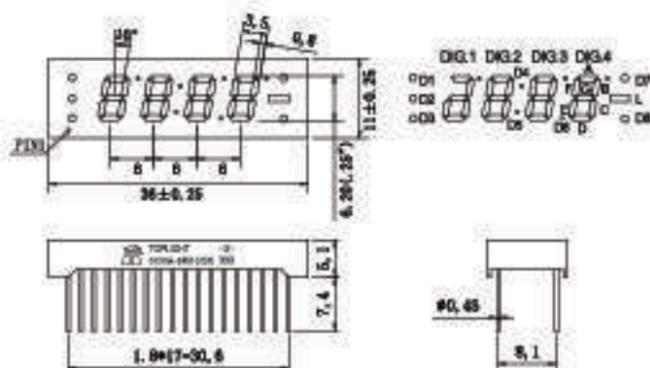


TOPLIGHT CA-5361FX

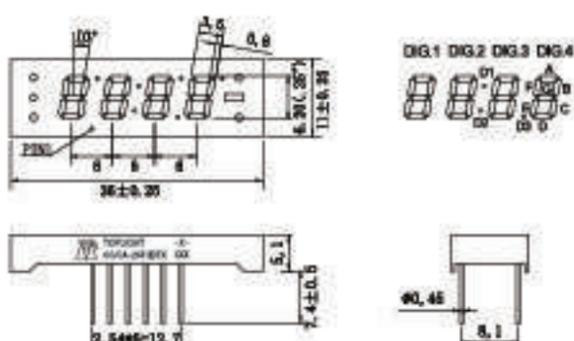


鼎暉科技
TOPLIGHT
Seven Segment Display

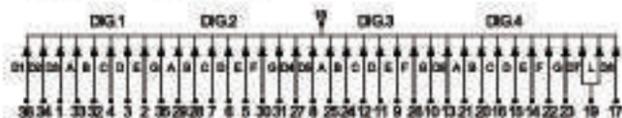
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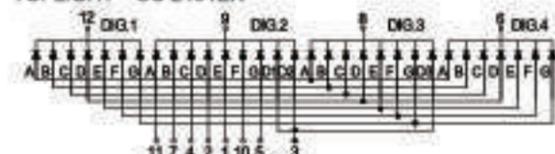
TOPLIGHT CC/CA-2451E/FX



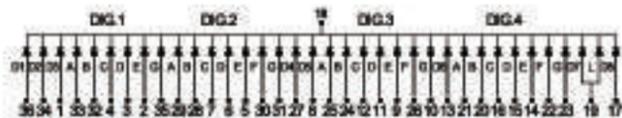
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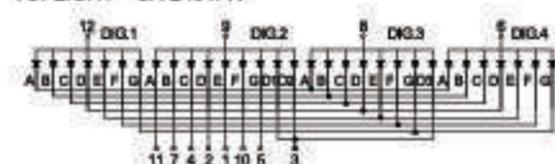
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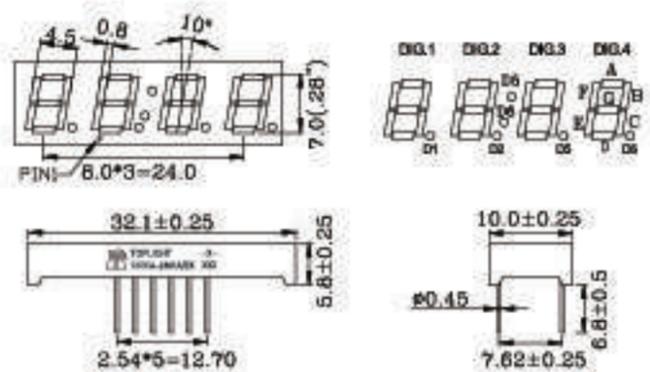
TOPLIGHT CA-2451DX



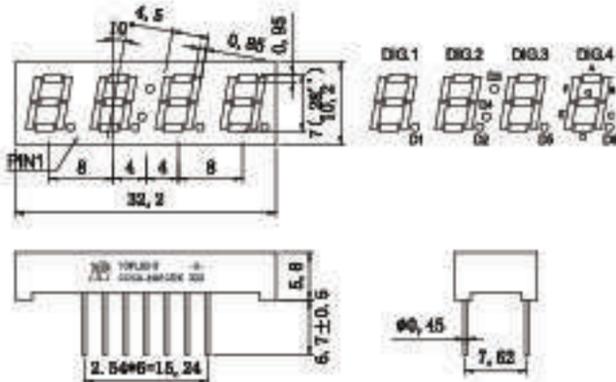
TOPLIGHT CA-2451FX



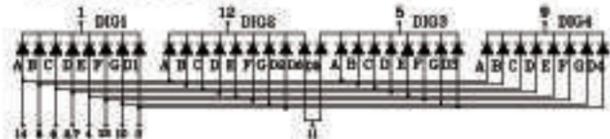
TOPLIGHT CC/CA-2481A/BX



TOPLIGHT CC/CA-2481C/DX



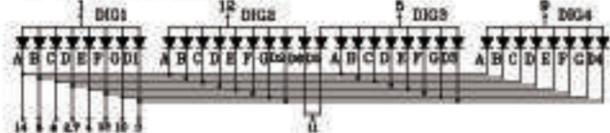
TOPLIGHT CC-2481AX



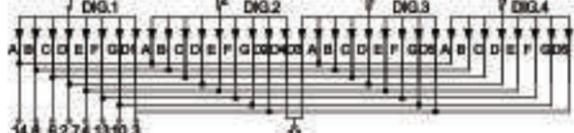
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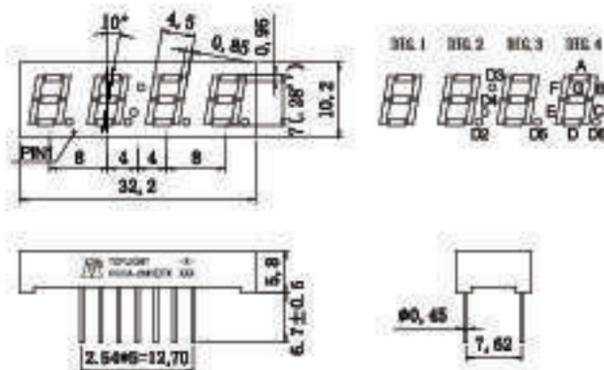
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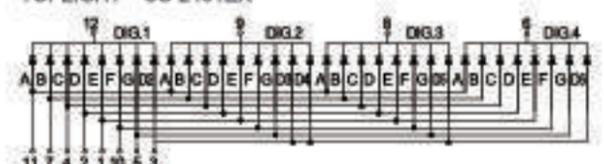
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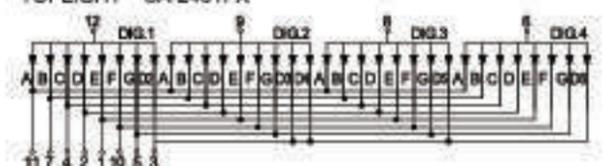
TOPLIGHT CC/CA-2481E/FX



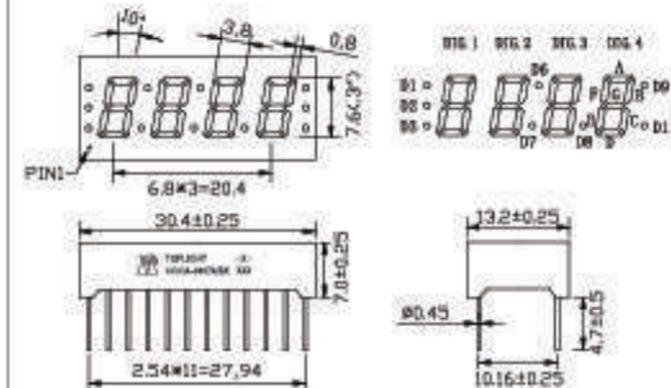
TOPLIGHT CC-2481EX



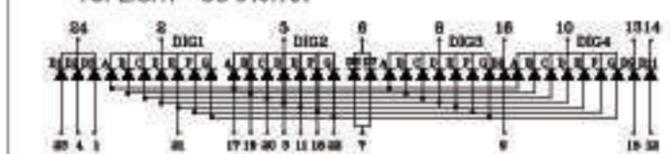
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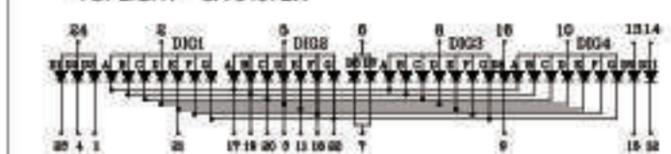
TOPLIGHT CC/CA-3407A/BX



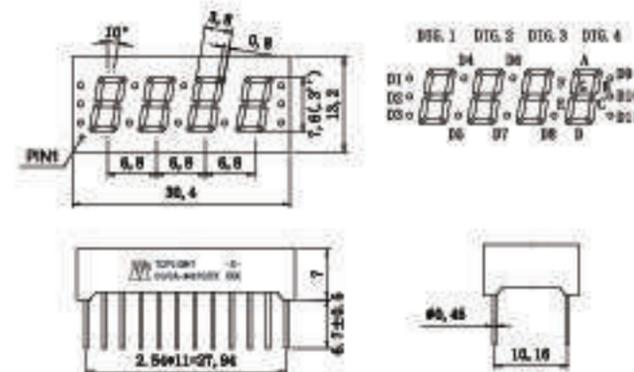
TOPLIGHT CC-3407AX



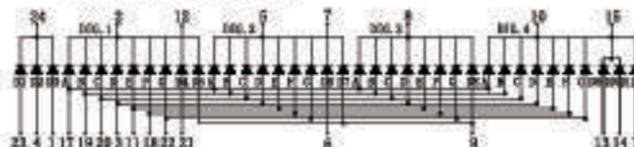
TOPLIGHT CA-3407BX



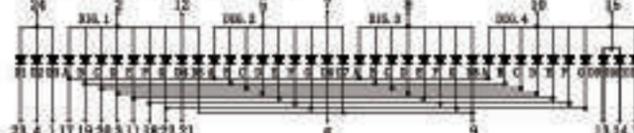
TOPLIGHT CC/CA-3407C/DX



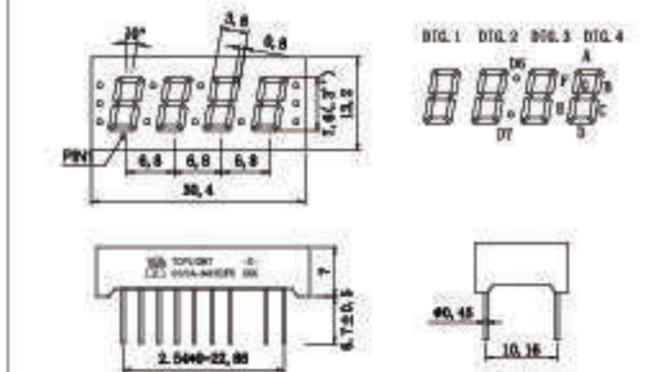
TOPLIGHT CC-3407CX



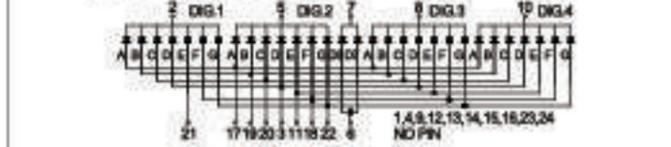
TOPLIGHT CA-3407DX



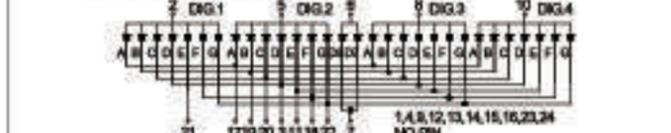
TOPLIGHT CC/CA-3407E/FX



TOPLIGHT CC-3407EX

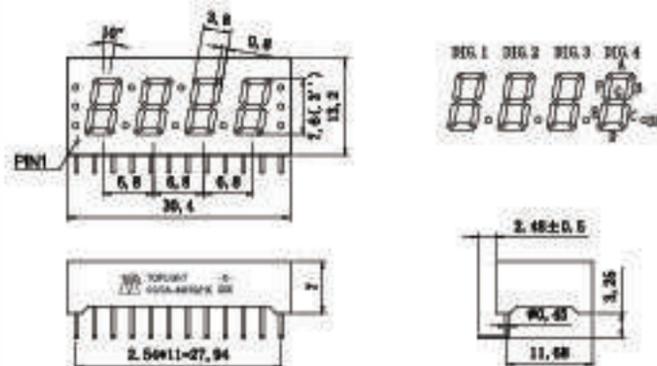


TOPLIGHT CA-3407FX

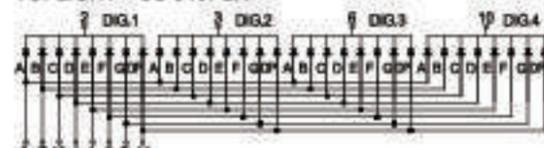


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TOP LIGHT
Semi-transparent Display

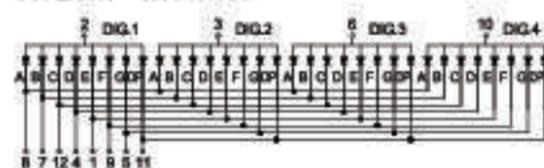
TOPLIGHT CC/CA-3407G/HX



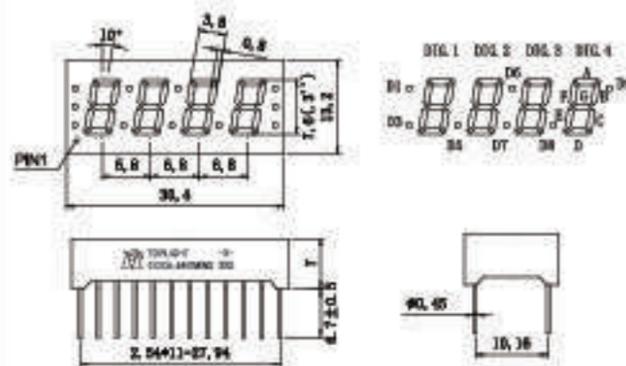
TOPLIGHT CC-3407GX



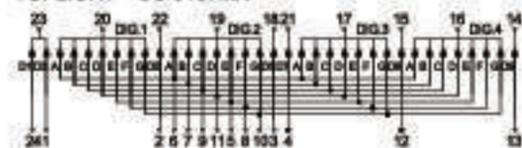
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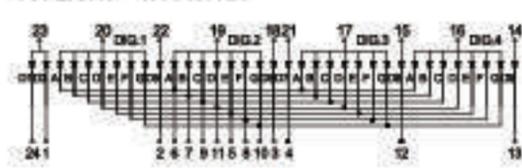
TOPLIGHT CC/CA-3407M/NX



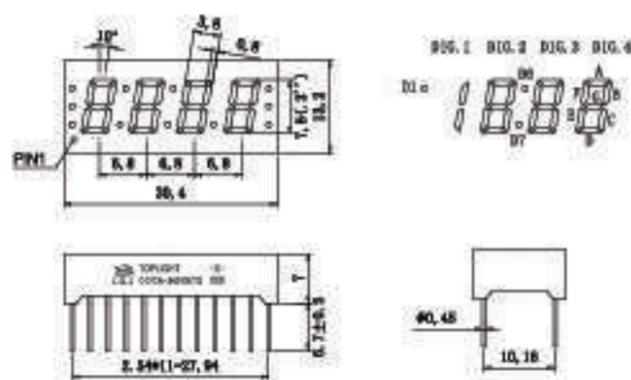
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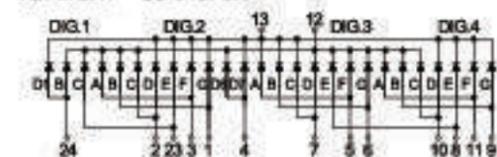
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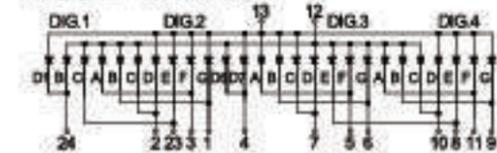
TOPLIGHT CC/CA-3407S/TX



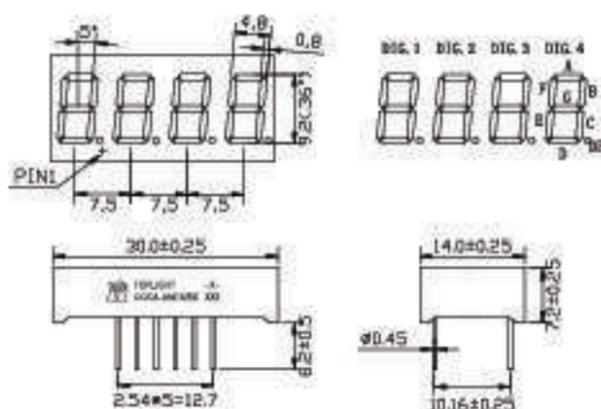
TOPLIGHT CC-3407SX



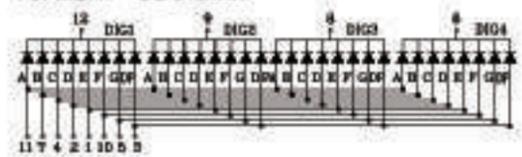
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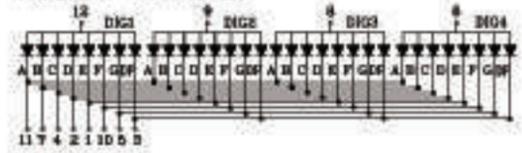
TOPLIGHT CC/CA-3461A/BX



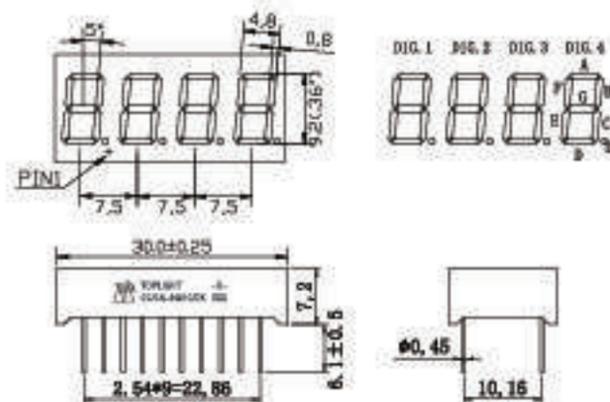
TOPLIGHT CC-3461AX



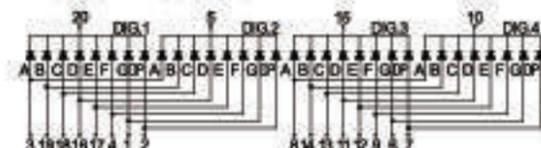
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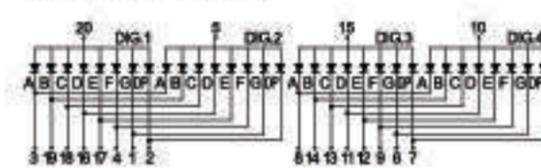
TOPLIGHT CC/CA-3461C/DX



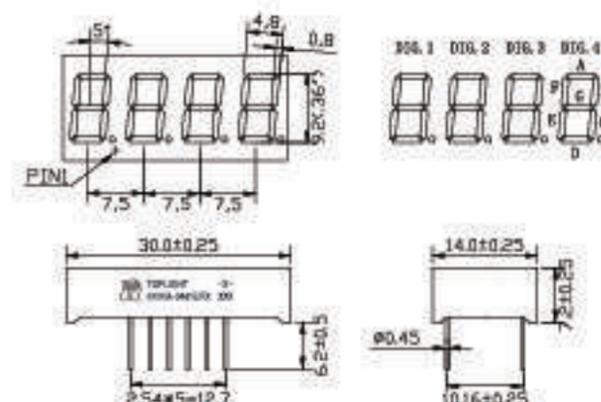
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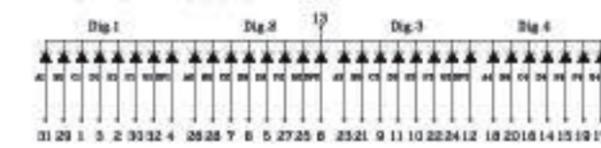
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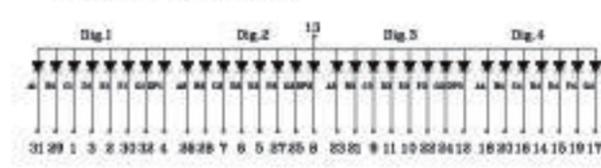
TOPLIGHT CC/CA-3461E/FX



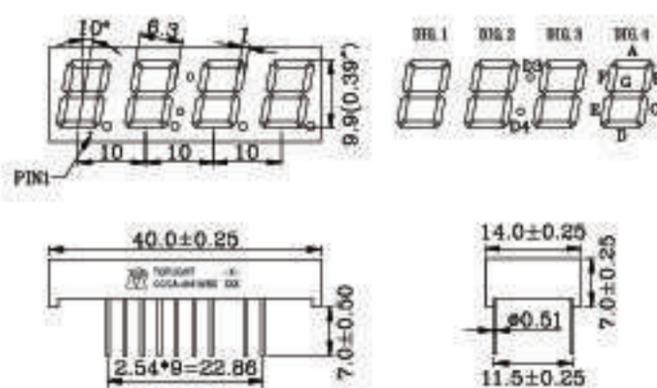
TOPLIGHT CC-3461EX



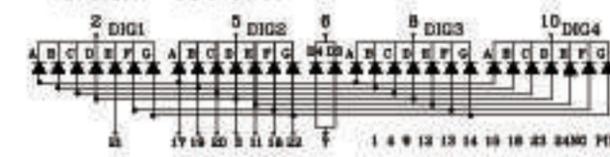
TOPLIGHT CA-3461FX



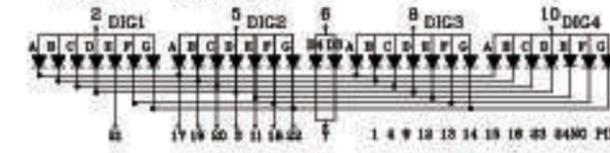
TOPLIGHT CC/CA-3491A/BX



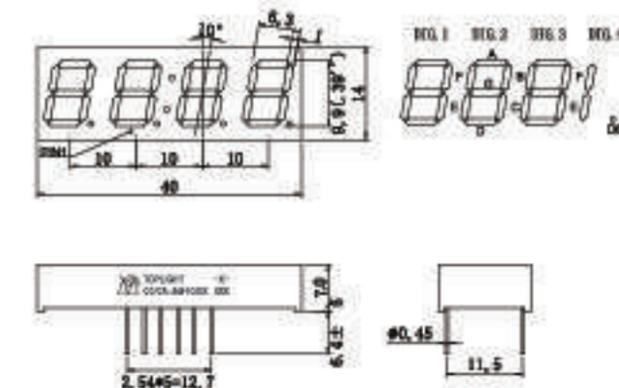
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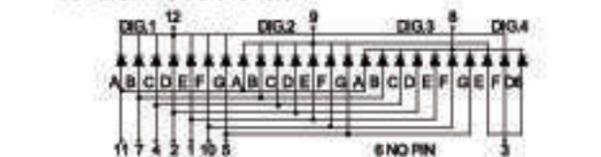
TOPLIGHT CA-3491BX



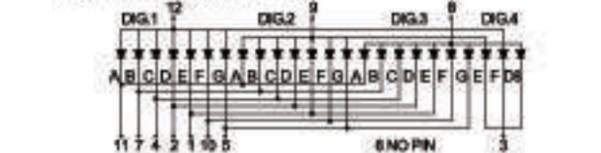
TOPLIGHT CC/CA-3491C/DX



TOPLIGHT CC-3491CX

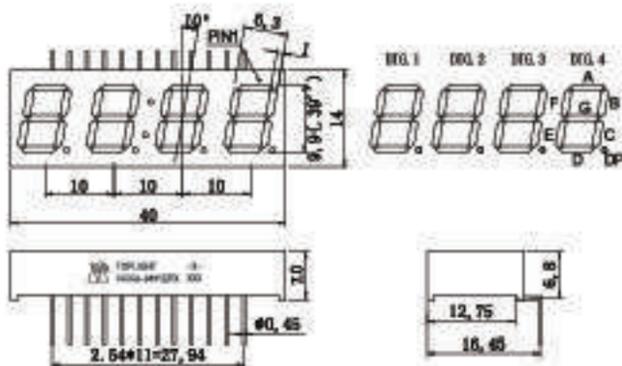


TOPLIGHT CA-3491DX

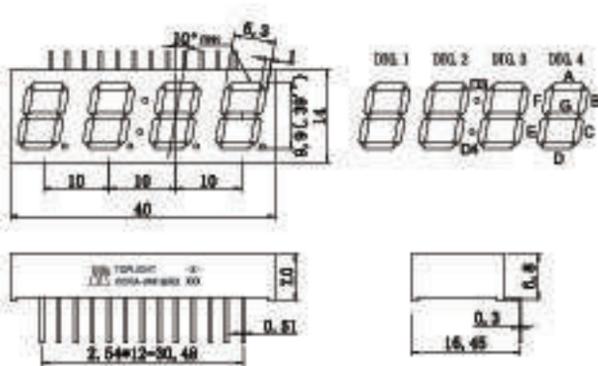


鼎暉科技
TOP LIGHT
Seven Segment Display

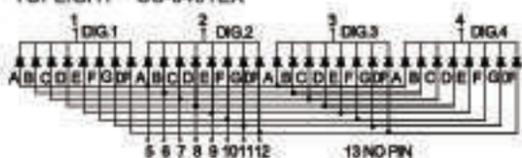
TOPLIGHT CC/CA-3491E/FX



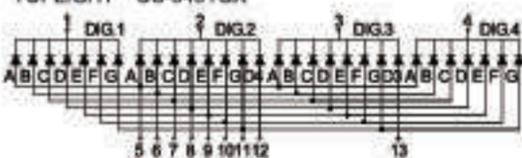
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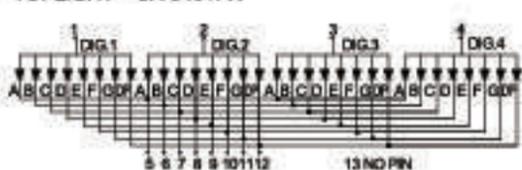
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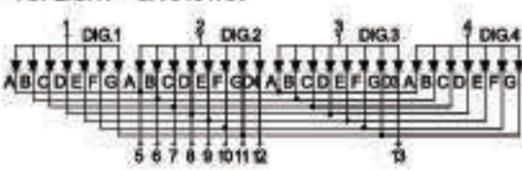
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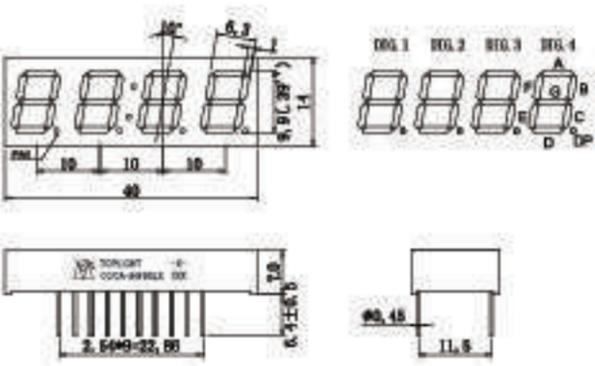
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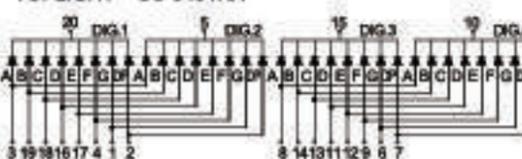
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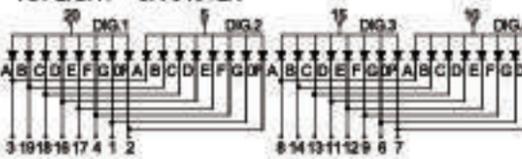
TOPLIGHT CC/CA-3491K/LX



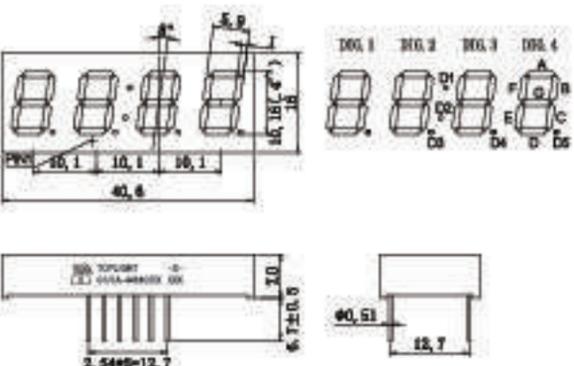
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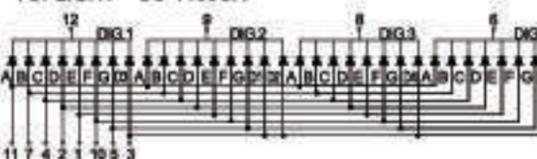
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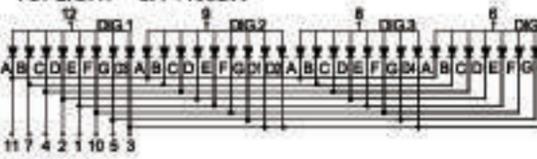
TOPLIGHT CC/CA-4403C/DX



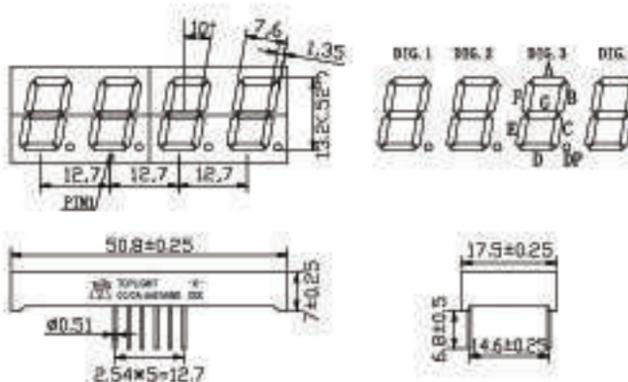
TOPLIGHT CC-4403CX



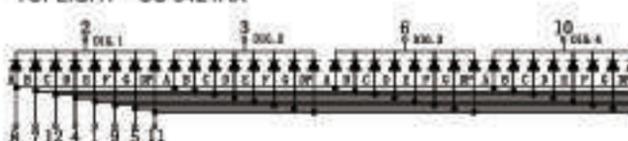
TOPLIGHT CA-4403DX



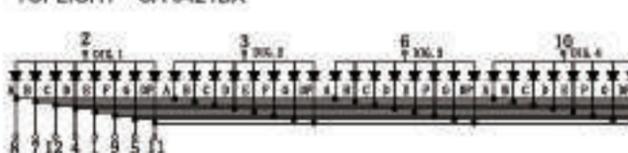
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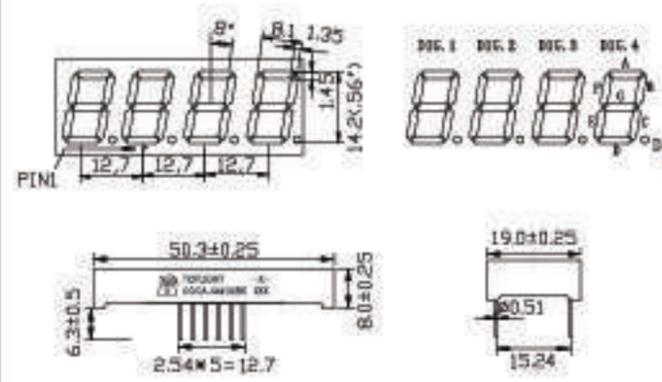
TOPLIGHT CC-5421AX



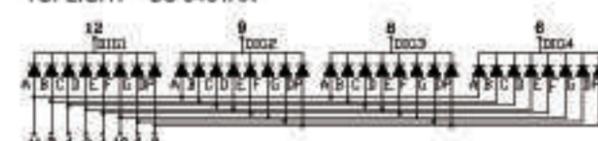
TOPLIGHT CA-5421BX



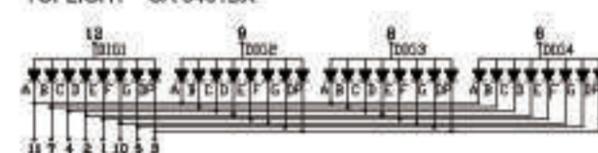
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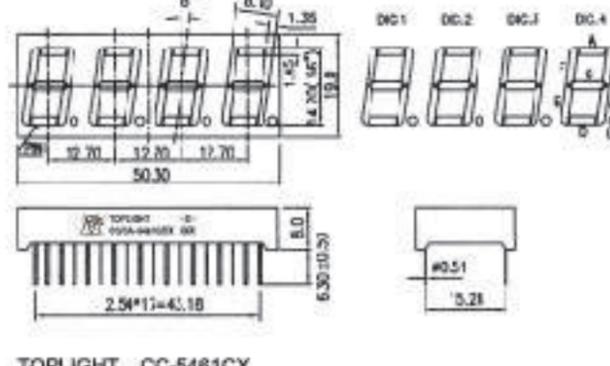
TOPLIGHT CC-5461AX



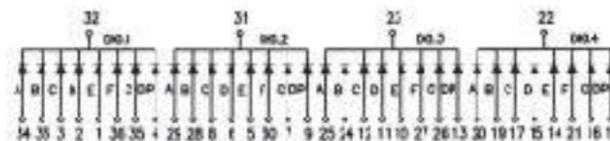
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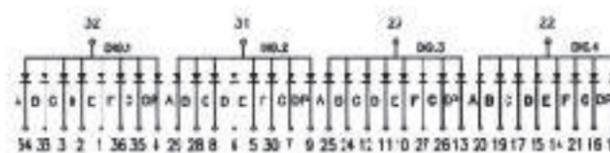
TOPLIGHT CC/CA-5461C/DX



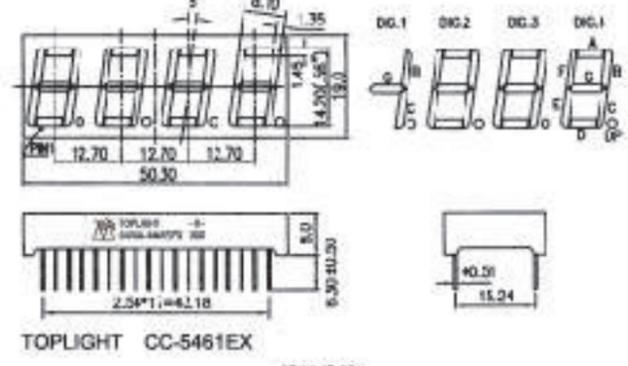
TOPLIGHT CC-5461CX



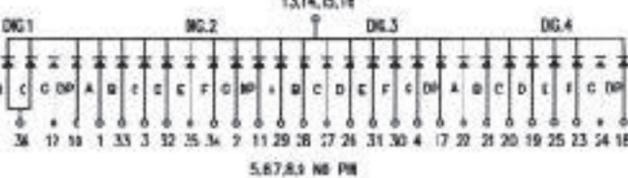
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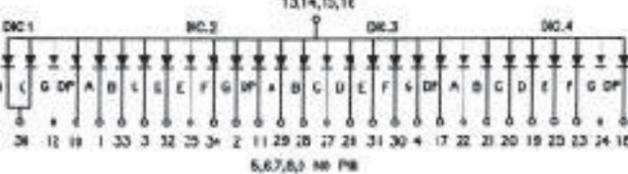
TOPLIGHT CC/CA-5461E/FX



TOPLIGHT CC-5461EX

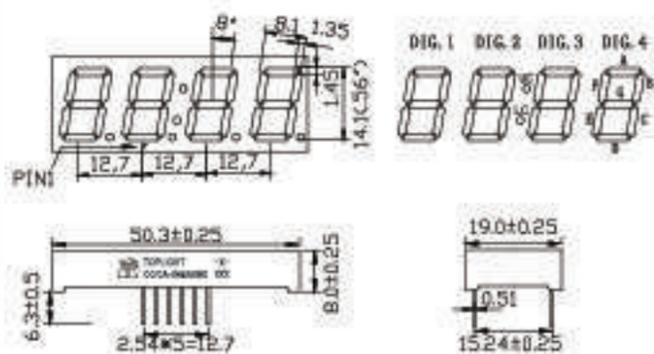


TOPLIGHT CA-5461FX

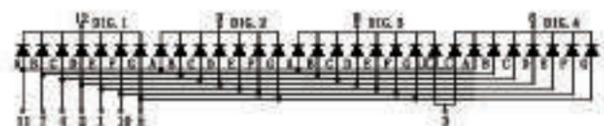


鼎暉科技
TOPLED
Seven Segment Display

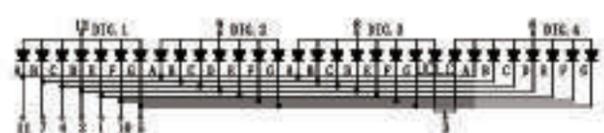
TOPLIGHT CC/CA-5462A/BX



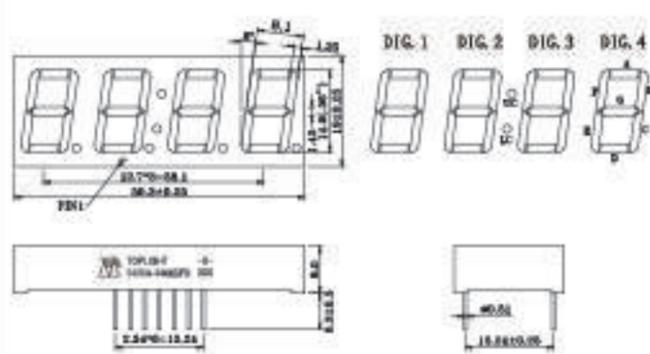
TOPLIGHT CC-5462AX



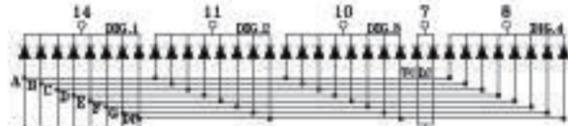
TOPLIGHT CA-5462BX



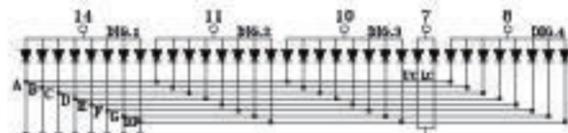
TOPLIGHT CC/CA-5462E/FX



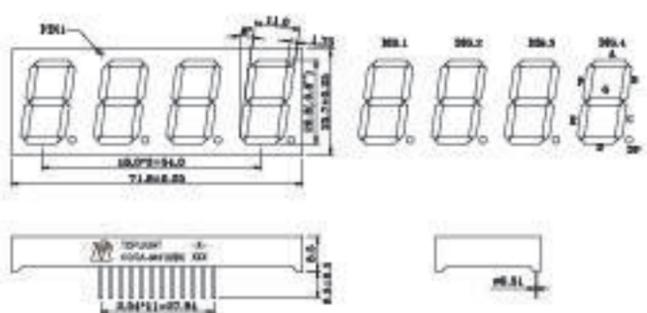
TOPLIGHT CC-5462EX



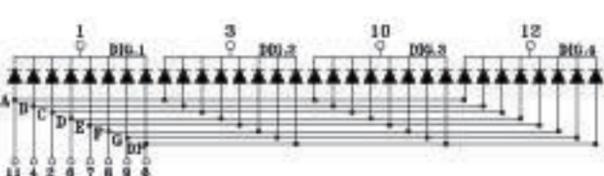
TOPLIGHT CA-5462FX



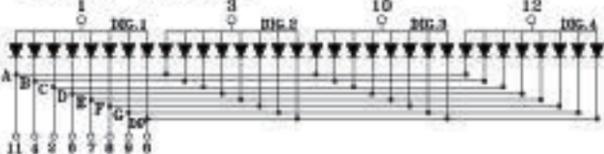
TOPLIGHT CC/CA-8401A/BX



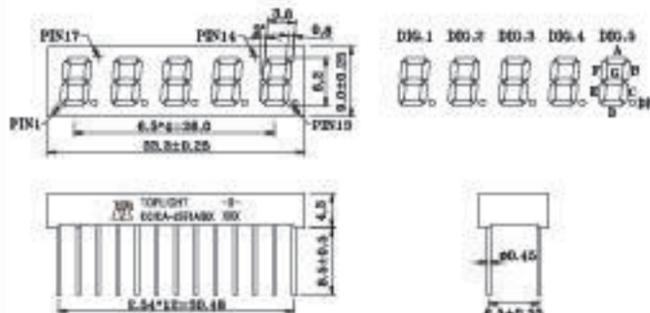
TOPLIGHT CC-8401AX



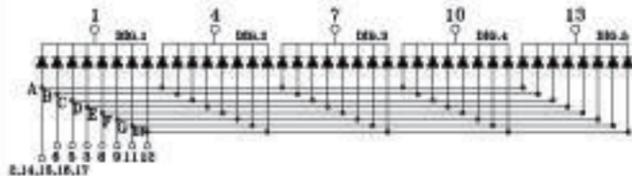
TOPLIGHT CA-8401BX



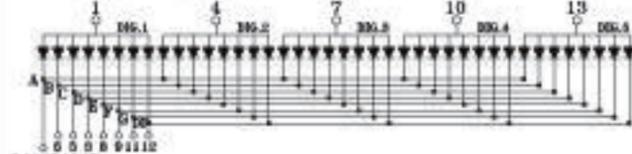
TOPLIGHT CC/CA-2551A/BX



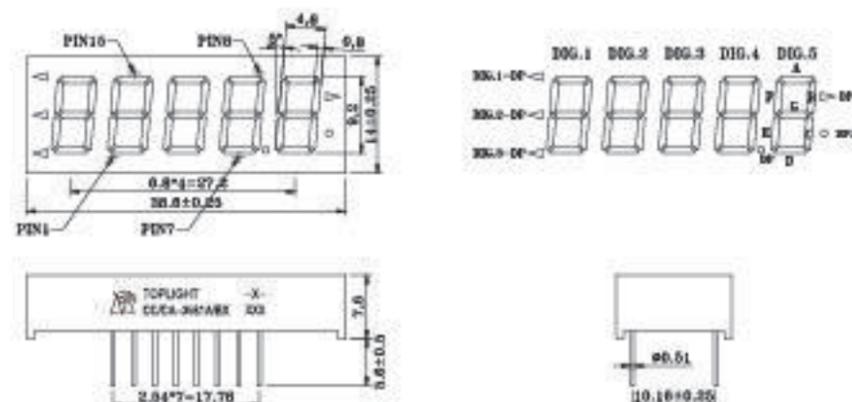
TOPLIGHT CC-2551AX



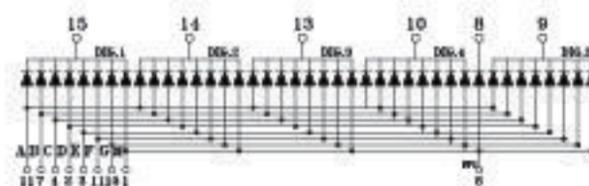
TOPLIGHT CA-2551BX



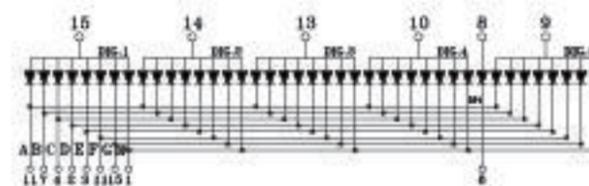
TOPLIGHT CC/CA-3561A/BX



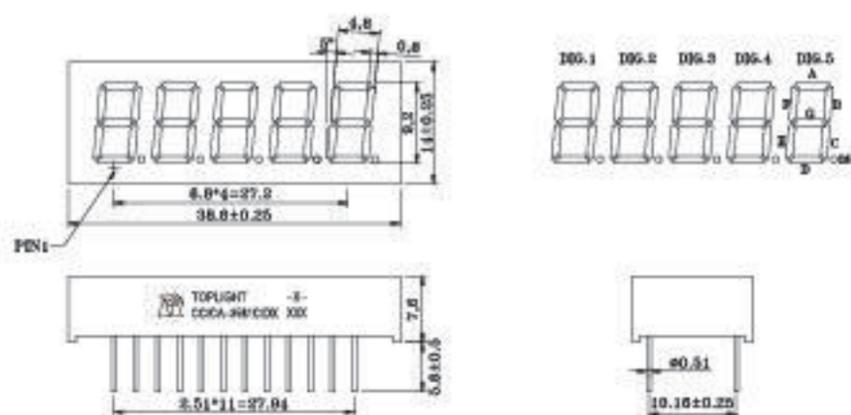
TOPLIGHT CC-3561AX



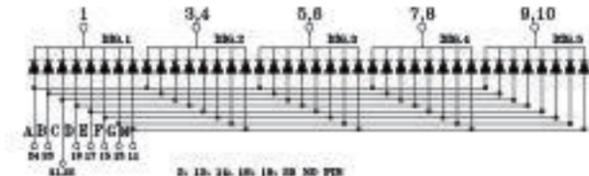
TOPLIGHT CA-3561BX



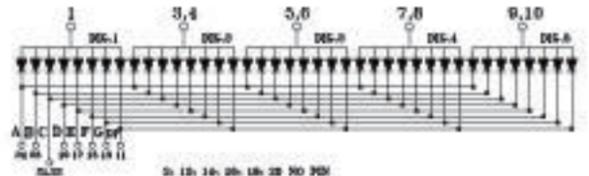
TOPLIGHT CC/CA-3561C/DX



TOPLIGHT CC-3561CX

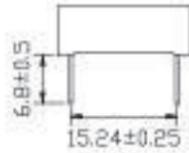
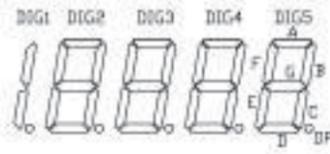
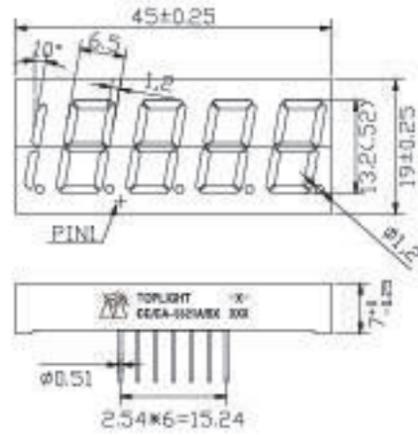


TOPLIGHT CA-3561DX

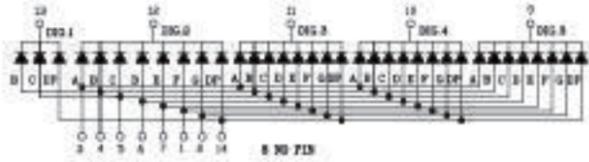


雙面顯示 7~7.6mm
Seven segment Display

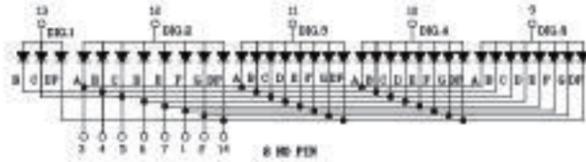
TOPLIGHT CC/CA-5521A/BX



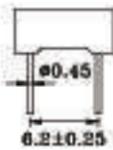
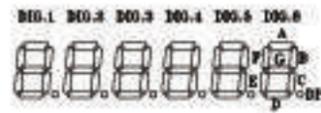
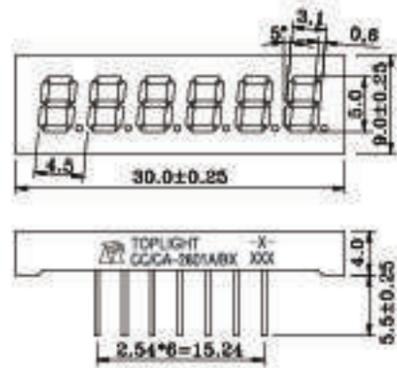
TOPLIGHT CC-5521AX



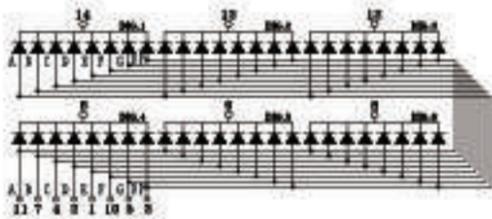
TOPLIGHT CA-5521BX



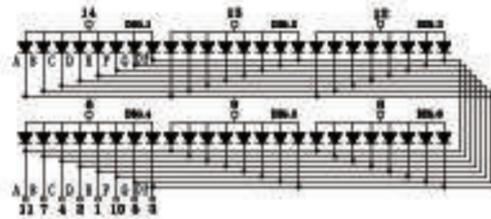
* TOPLIGHT CC/CA-2601A/BX



TOPLIGHT CC-2601AX

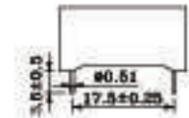
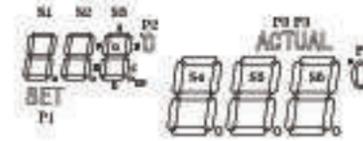
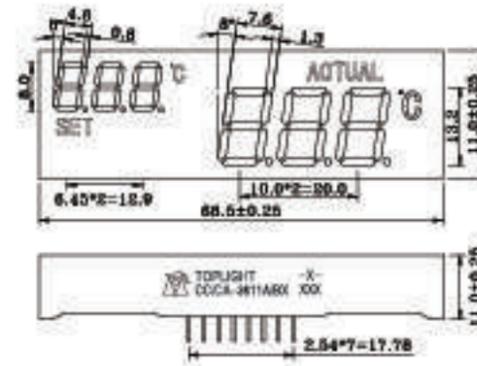


TOPLIGHT CA-2601BX

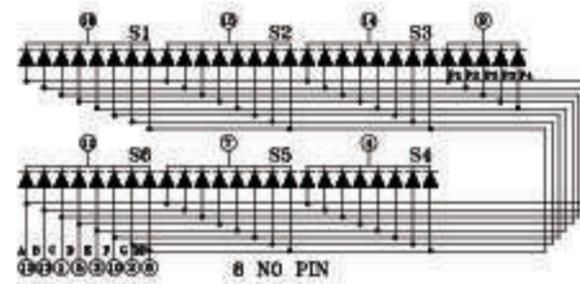


*: 定向开发

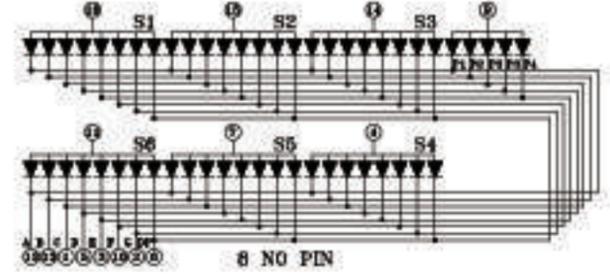
TOPLIGHT CC/CA-3611A/BX



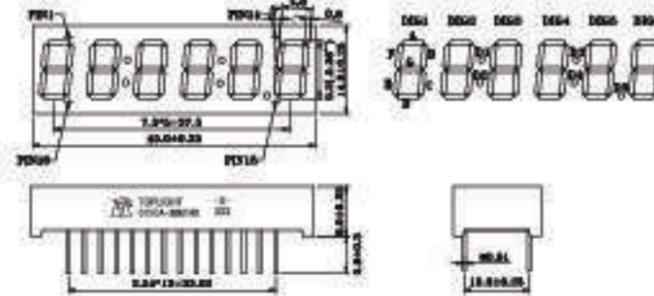
TOPLIGHT CC-3611AX



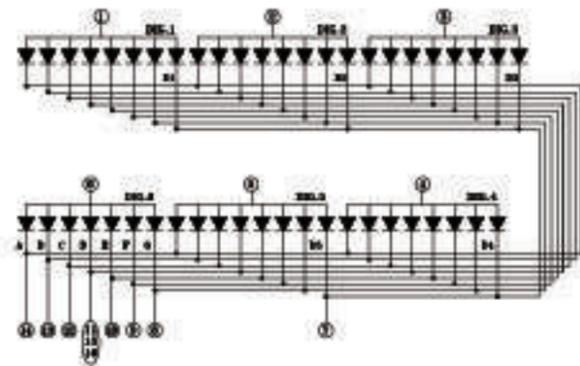
TOPLIGHT CA-3611BX



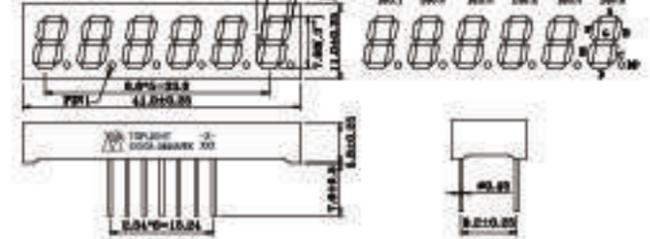
TOPLIGHT CA-3661HX



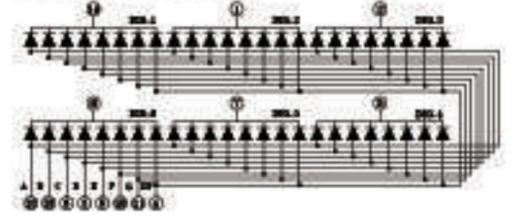
TOPLIGHT CA-3661HX



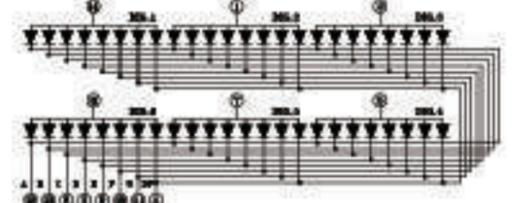
TOPLIGHT CC/CA-3664A/BX



TOPLIGHT CC-3664AX



TOPLIGHT CA-3664BX



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Screen Segment Display

The Symbol Display 指示符

主要应用于各类指示面板。
For all kinds of display panel.



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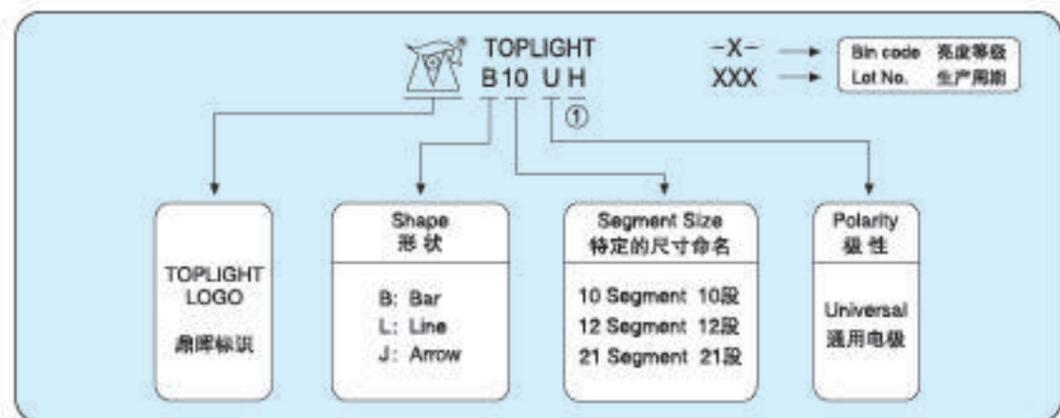
The Symbol Display

指示符



Product Model Specification For Symbol Display

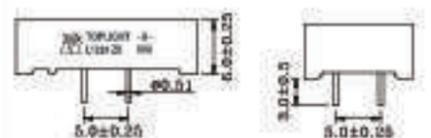
指示符命名规则



① color code 颜色代码

颜色	颜色代码	λ_p (nm)	V_f (V)	
标准红	Red	H	635-650	1.7-2.4
高亮红	Hi-Red	S	630-640	1.8-2.4
超高亮红	Super Red	SR	620-630	1.8-2.4
琥珀色	Amber	SA	600-610	1.8-2.4
橙色	Orange	E	615-620	1.8-2.4
黄	Yellow	SY	585-595	1.8-2.4
标准黄绿	Yellow Green	G	568-575	1.9-2.4
高亮黄绿	Hi-Yellow Green	YG	568-575	1.9-2.4
纯绿	Pure Green	PG	520-530	2.8-3.4
蓝	Blue	B	460-470	2.8-3.4
白	White	W	-	2.8-3.4

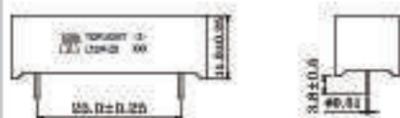
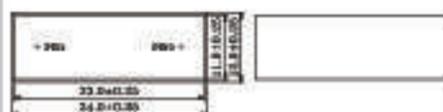
TOPLIGHT L1220 ZX



TOPLIGHT L1220 ZX



* TOPLIGHT L1234 ZX



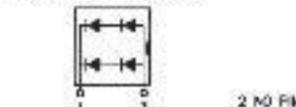
TOPLIGHT L1234 ZX



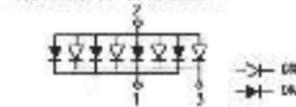
TOPLIGHT L15 ZX



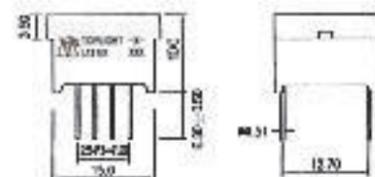
TOPLIGHT L15 ZEG



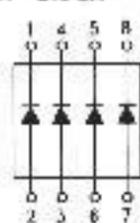
TOPLIGHT L15 ZX



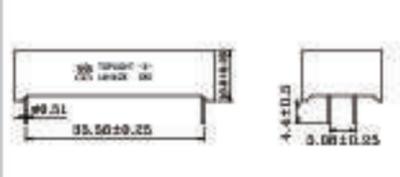
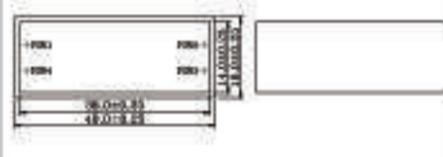
TOPLIGHT L13 UX



TOPLIGHT L13 UX



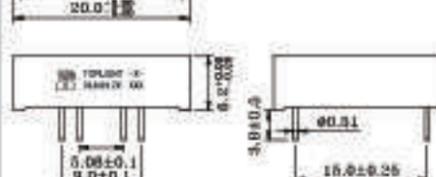
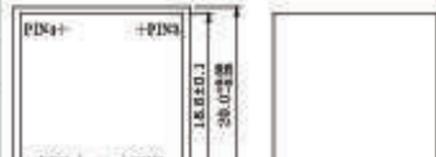
TOPLIGHT L4016 ZX



TOPLIGHT L4016 ZX



* TOPLIGHT DL2020 ZX

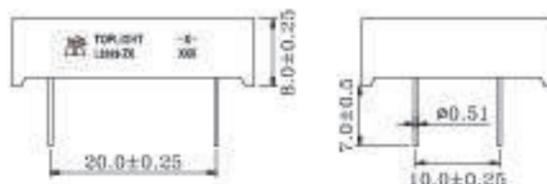
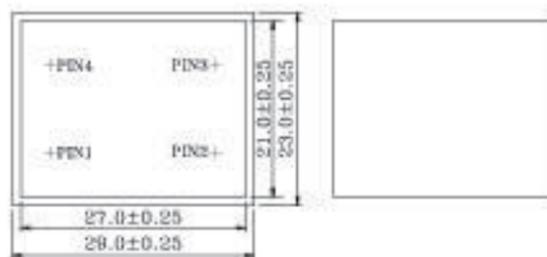


TOPLIGHT DL2020 ZX



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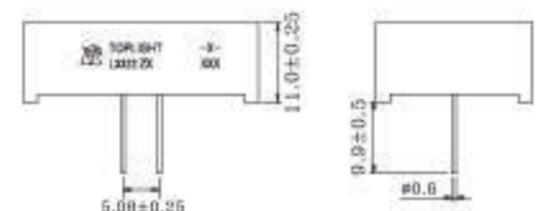
TOPLIGHT L2329 ZX



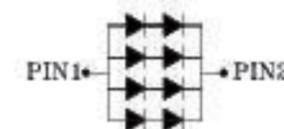
TOPLIGHT L2329 ZX



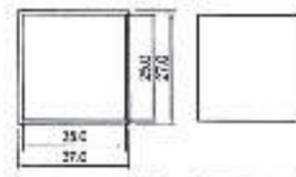
TOPLIGHT L3322 ZX



TOPLIGHT L3322 ZX



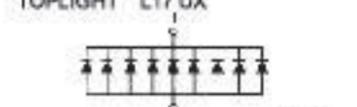
TOPLIGHT L17 UX



TOPLIGHT L17 UEG



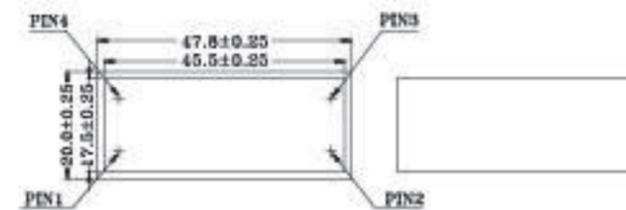
TOPLIGHT L17 UX



TOPLIGHT L17 UEG



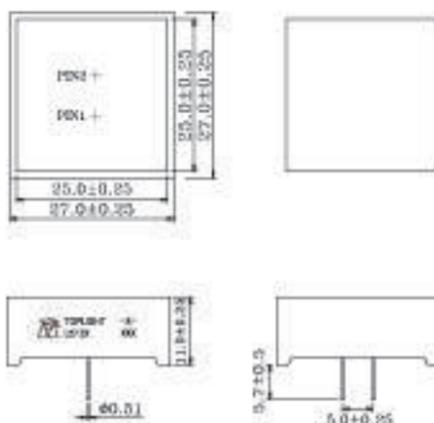
TOPLIGHT L2048 ZX



TOPLIGHT L2048 ZX



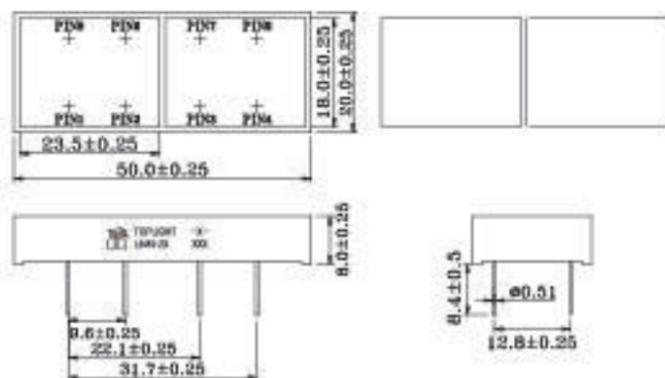
TOPLIGHT L27 ZX



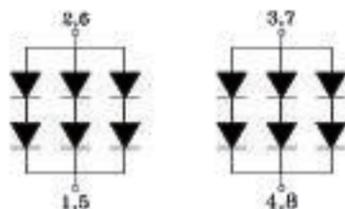
TOPLIGHT L27ZX



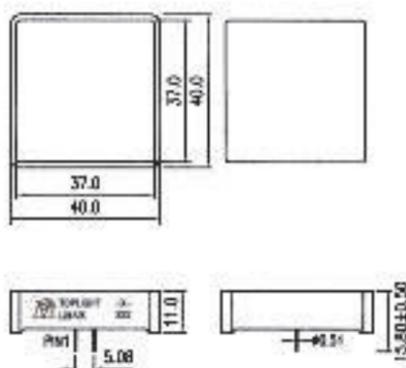
TOPLIGHT L2050 ZX



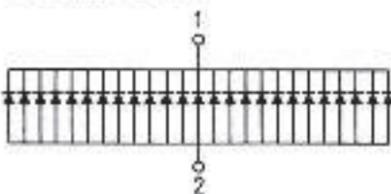
TOPLIGHT L2050 ZX



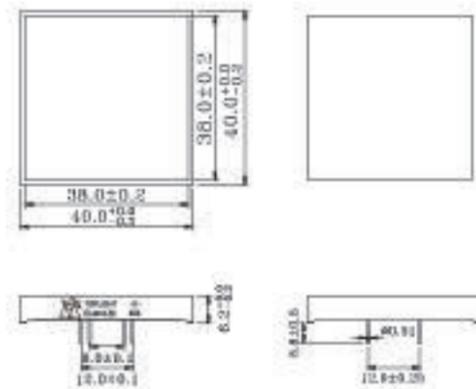
TOPLIGHT L26 UX



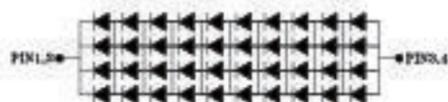
TOPLIGHT L26 UX



* TOPLIGHT DL4040 ZX

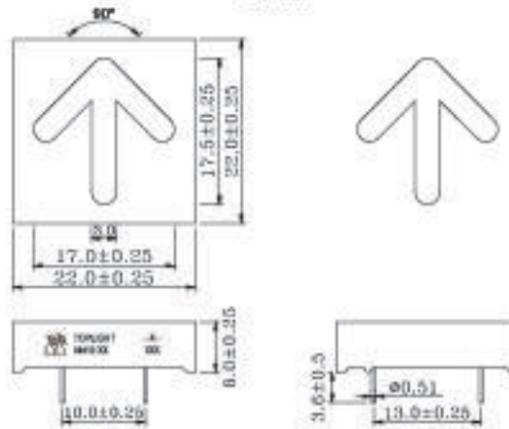


TOPLIGHT DL4040 ZX



*: 定向开光

* TOPLIGHT 08012 C/DX E/FX



TOPLIGHT 08012 CX



TOPLIGHT 08012 EX



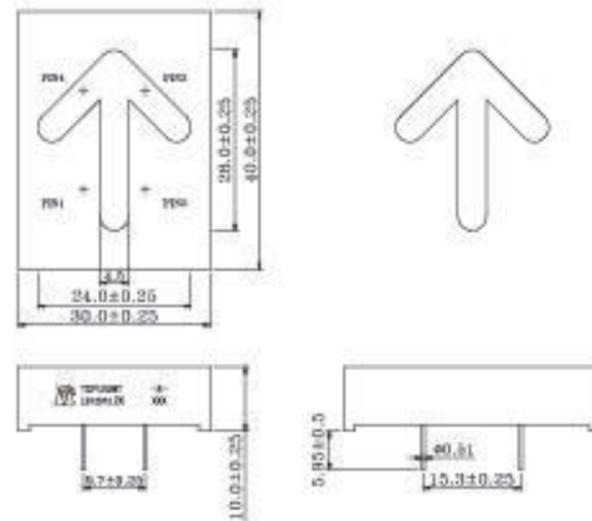
TOPLIGHT 08012 DX



TOPLIGHT 08012 FX



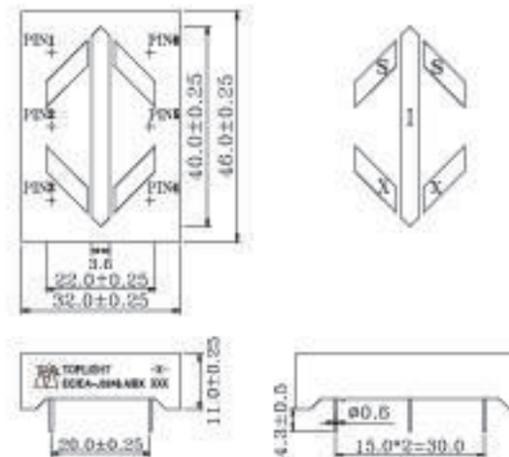
TOPLIGHT LS12012 ZX



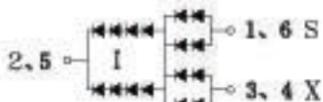
TOPLIGHT LS12012 ZX



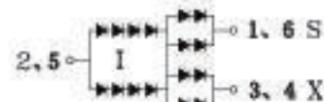
* TOPLIGHT CC/CA-J3246 A/BX



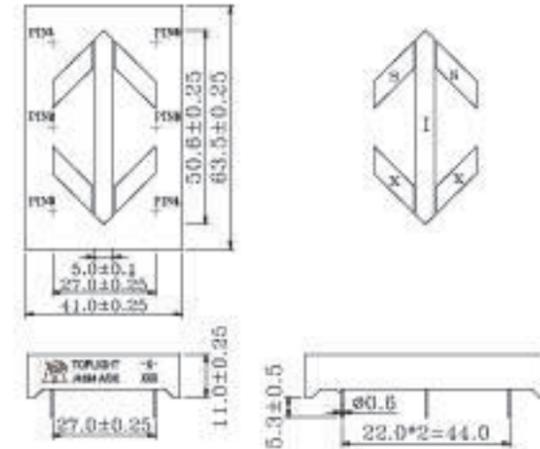
TOPLIGHT CC-J3246 AX



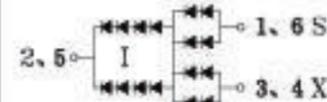
TOPLIGHT CA-J3246 BX



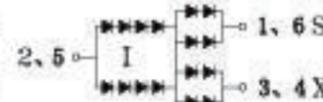
* TOPLIGHT J4264 A/BX



TOPLIGHT J4264 AX



TOPLIGHT J4264 BX

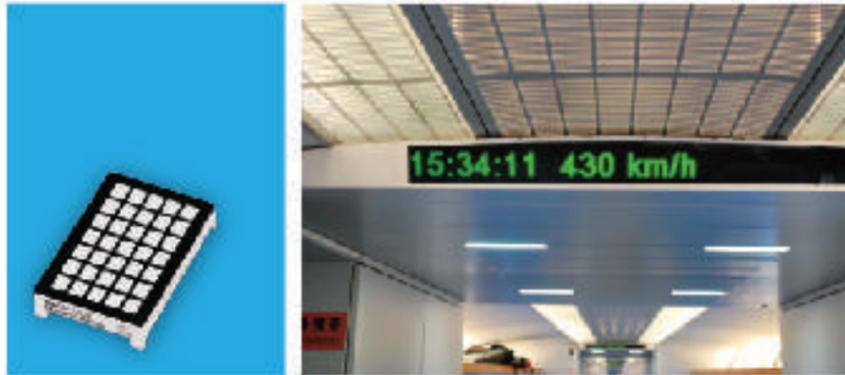


*: 定向开光

鼎暉科技
The Special Display

Dot matrix Display 点阵模块

主要应用于各类显示、指示组件。
For Digital & Pattern display.



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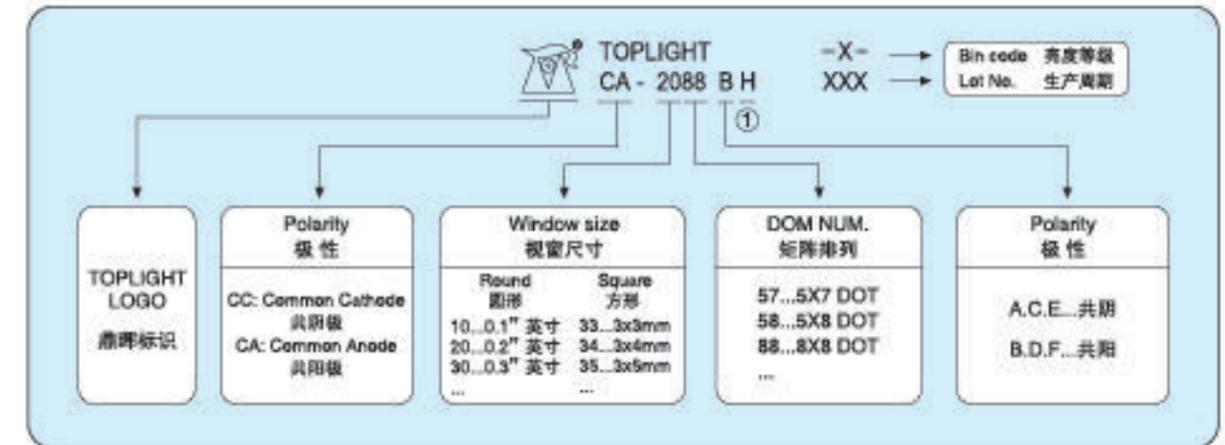
Dot matrix Display

点阵模块



Product Model Specification For Dot matrix Display

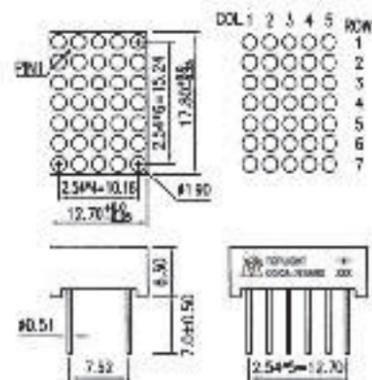
点阵模块命名规则



① color code 颜色代码

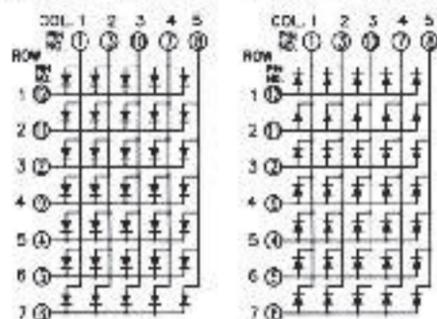
颜色	颜色代码	λ_p (nm)	V_f (v)	I_f (mA)	$I_v(\mu cd)$	
标准红	Red	H	635-650	1.7-2.2	10	6145-13499
高亮红	Hi-Red	S	630-640	1.8-2.4	10	13500-39489
超高亮红	Super Red	SR	620-630	1.8-2.4	10	26326-88854
橙色	Orange	SA	600-610	1.8-2.4	10	26326-88854
黄	Yellow	SY	585-595	1.8-2.4	10	26326-88854
标准黄绿	Yellow Green	G	568-575	1.9-2.5	10	4726-10383
高亮黄绿	Hi-Yellow Green	YG	568-575	1.9-2.5	10	13500-39489
纯绿	Pure Green	PG	520-530	2.8-3.5	10	26326-88854
蓝	Blue	B	455-465	2.8-3.5	10	26326-88854
白	White	W	-	2.8-3.5	10	26326-88854

TOPLIGHT CC/CA-757A/BX

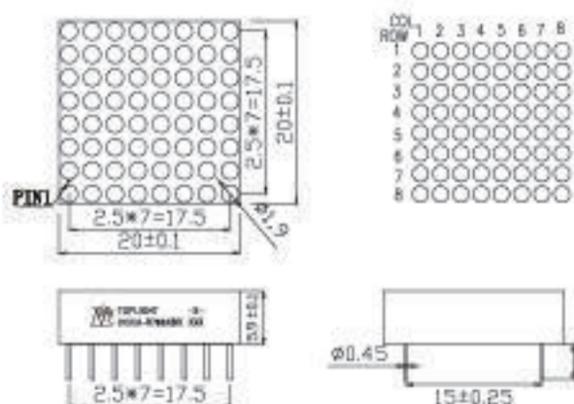


TOPLIGHT CC-757AX

TOPLIGHT CC-757BX

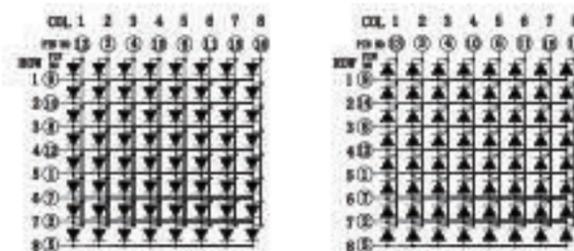


TOPLIGHT CC/CA-788A/BX

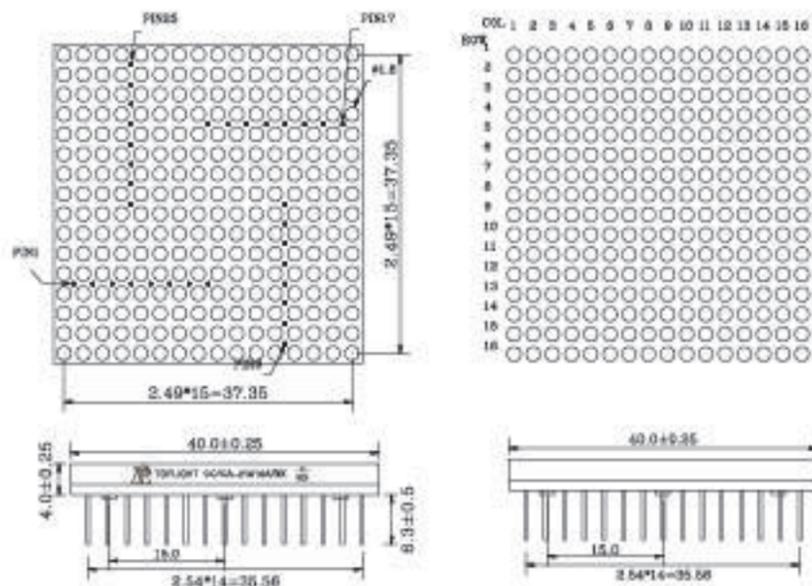


TOPLIGHT CC-788AX

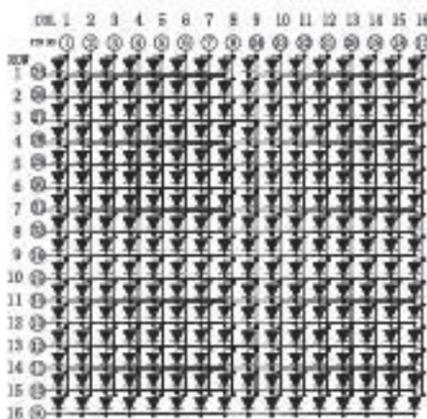
TOPLIGHT CA-788BX



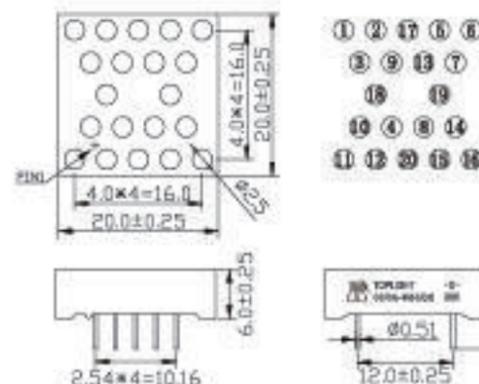
TOPLIGHT CC/CA-21616A/BX



TOPLIGHT CC-21616A/BX

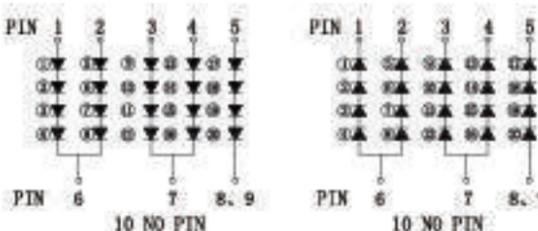


* TOPLIGHT CC/CA-955C/DX

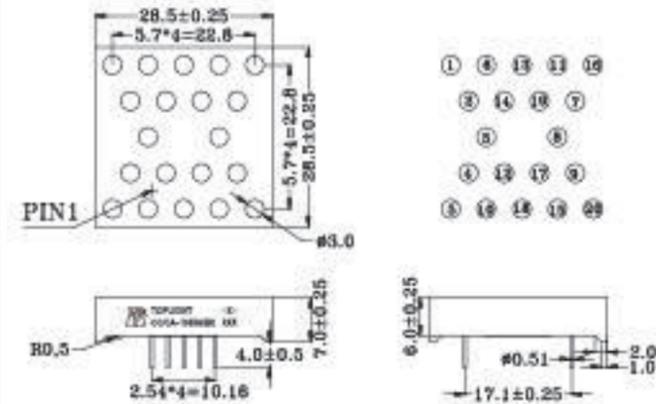


TOPLIGHT CC-955CX

TOPLIGHT CA-955DX

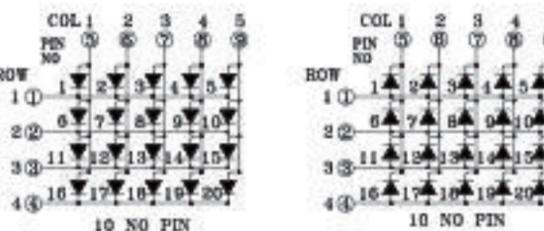


* TOPLIGHT CC/CA-1055A/BX

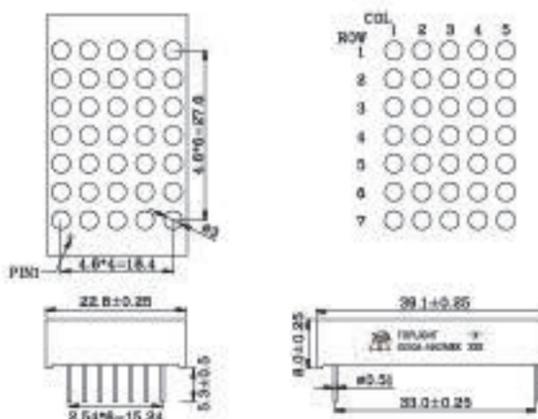


TOPLIGHT CC-1055AX

TOPLIGHT CA-1055BX

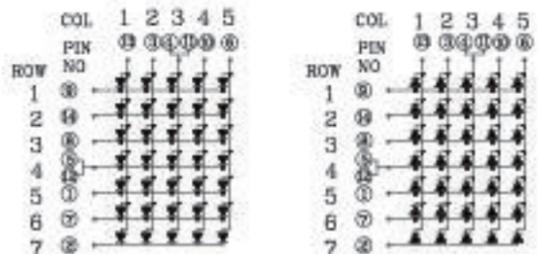


TOPLIGHT CC/CA-1057A/BX

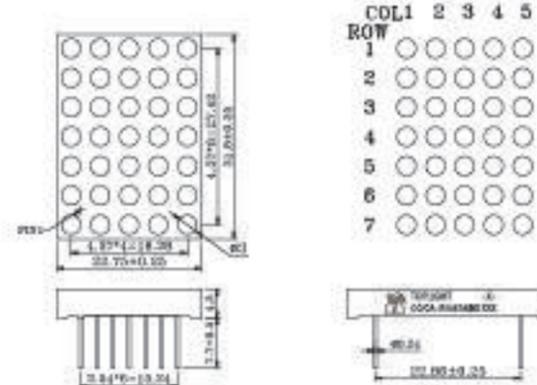


TOPLIGHT CC-1057AX

TOPLIGHT CA-1057BX

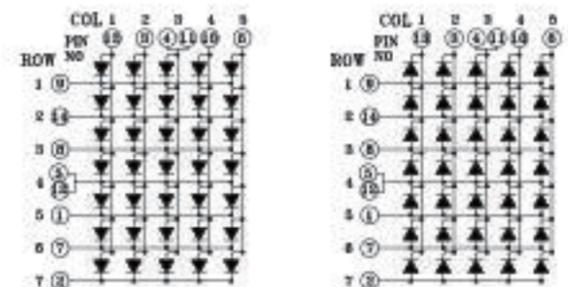


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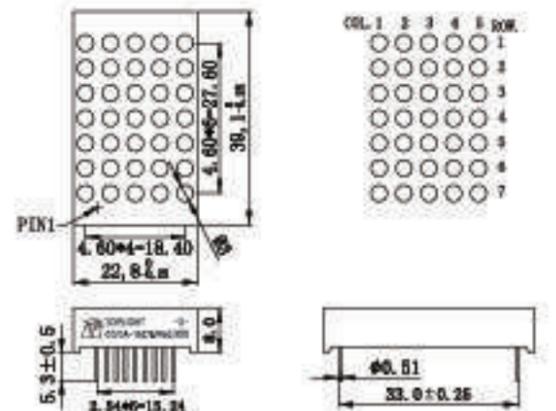


TOPLIGHT CC-R1057AX

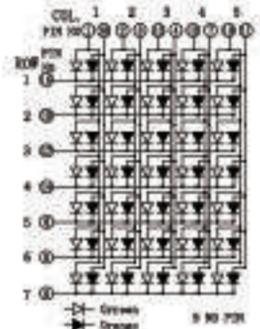
TOPLIGHT CA-R1057BX



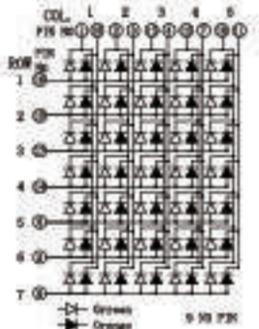
TOPLIGHT CC/CA-1057E/FEG



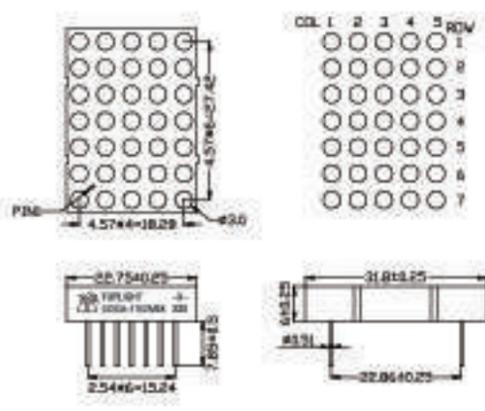
TOPLIGHT CC-1057EEG



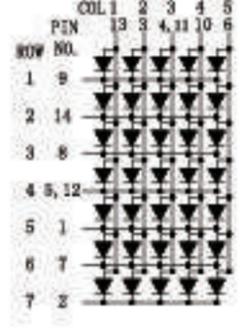
TOPLIGHT CA-1057FEG



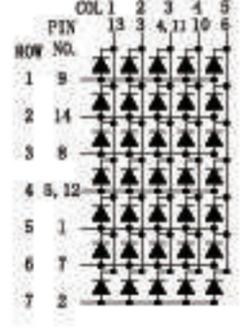
TOPLIGHT CC/CA-1157A/BX



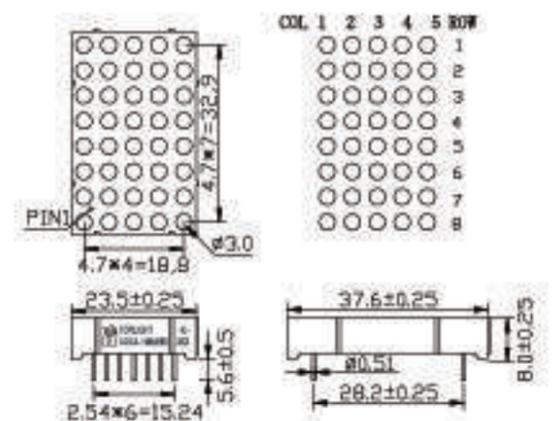
TOPLIGHT CC-1157AX



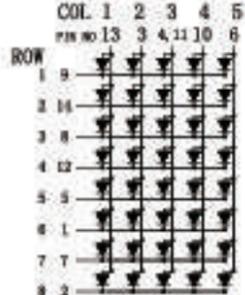
TOPLIGHT CA-1157BX



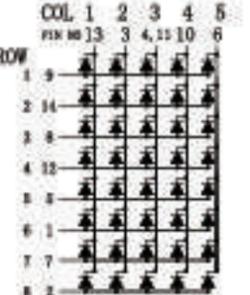
TOPLIGHT CC/CA-1058A/BX



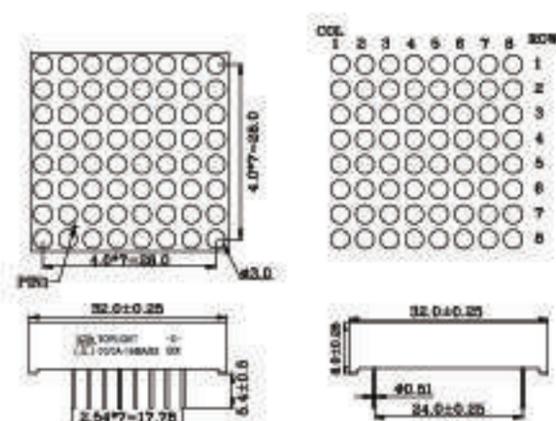
TOPLIGHT CC-1058AX



TOPLIGHT CA-1058BX



TOPLIGHT CC/CA-1088A/BX



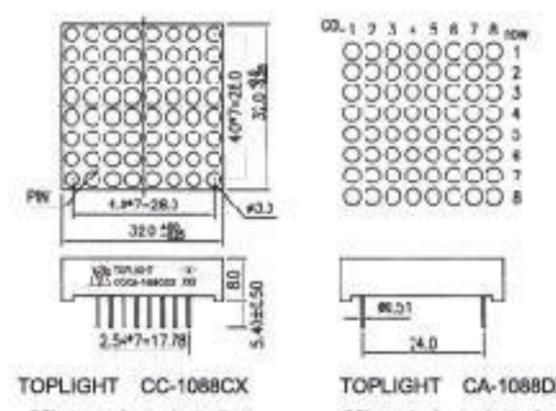
TOPLIGHT CC-1088AX



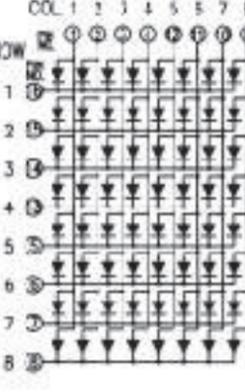
TOPLIGHT CA-1088BX



TOPLIGHT CC/CA-1088C/DX



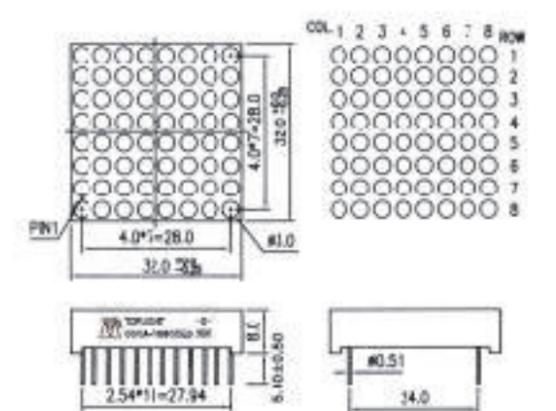
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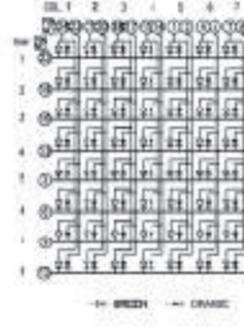
TOPLIGHT CA-1088DX



TOPLIGHT CC/CA-1088C/DEG



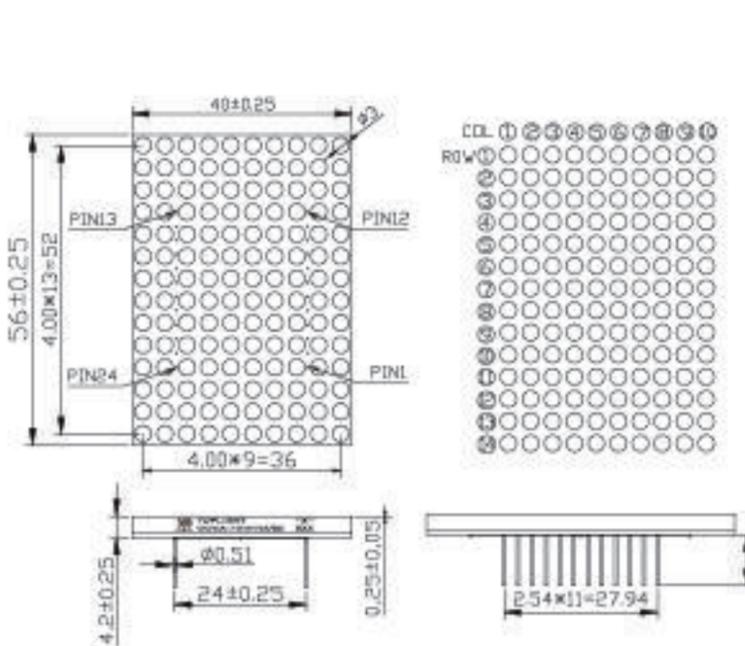
TOPLIGHT CC-1088CEG



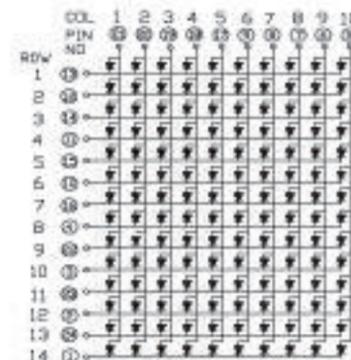
TOPLIGHT CA-1088DEG



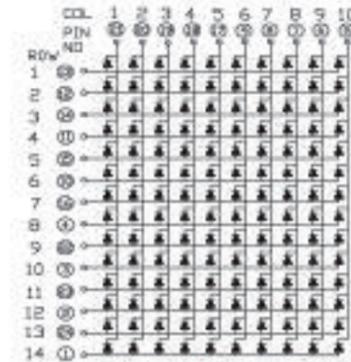
* TOPLIGHT CC/CA-101014A/BX



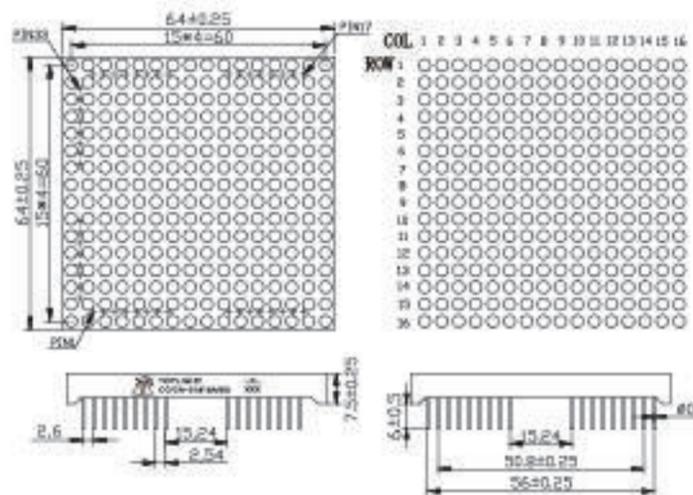
TOPLIGHT CC-101014AX



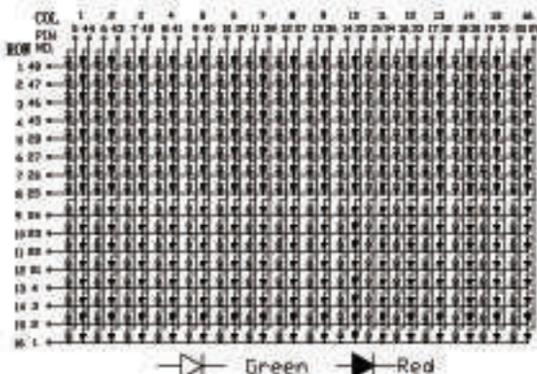
TOPLIGHT CA-101014BX



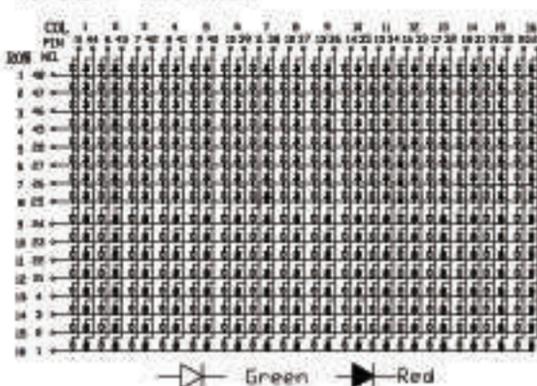
TOPLIGHT CC/CA-31616A/BX



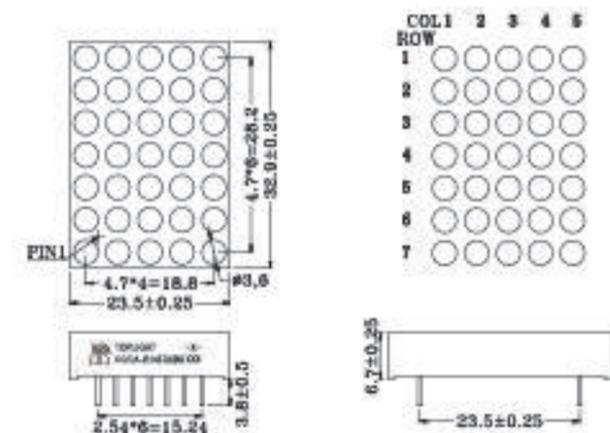
TOPLIGHT CC-31616AX



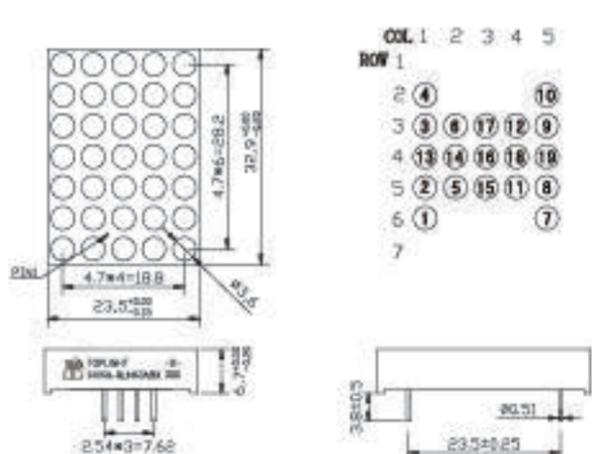
TOPLIGHT CA-31616BX



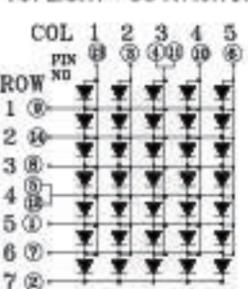
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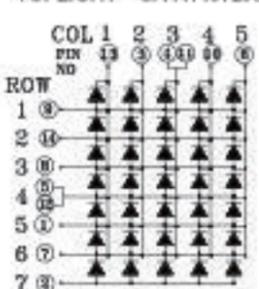
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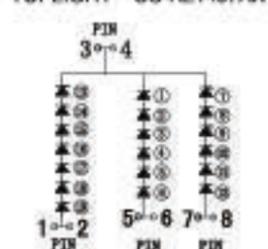
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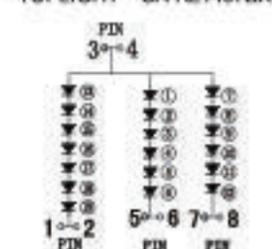
TOPLIGHT CA-R1457BX



TOPLIGHT CC-RL1457AX

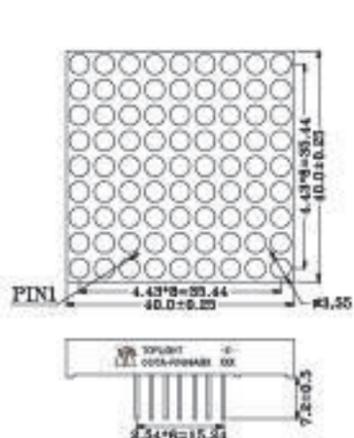


TOPLIGHT CA-RL1457BX

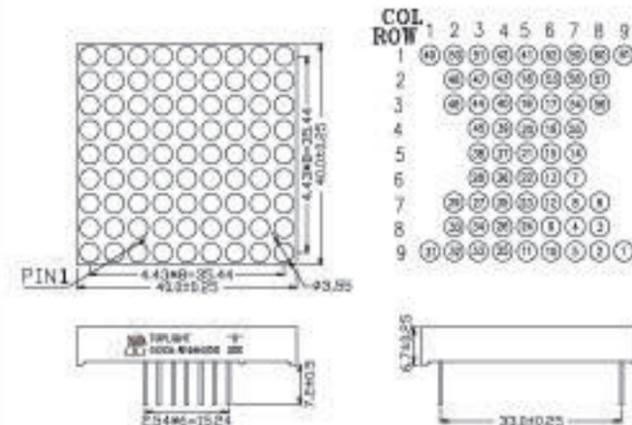


*: 定向开发

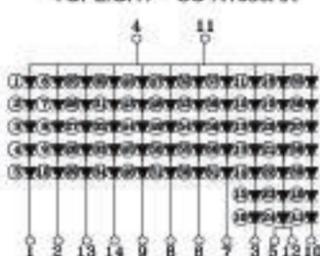
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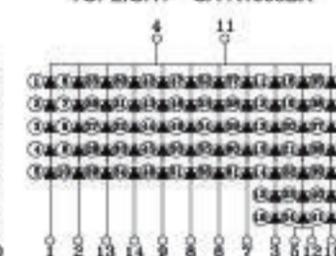
* TOPLIGHT CC/CA-R1099C/DX



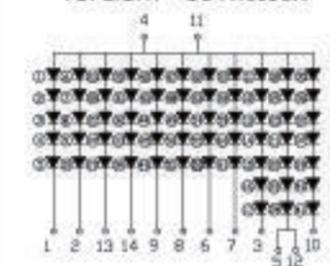
TOPLIGHT CC-R1099AX



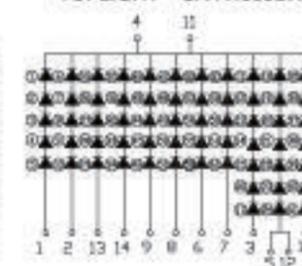
TOPLIGHT CA-R1099BX



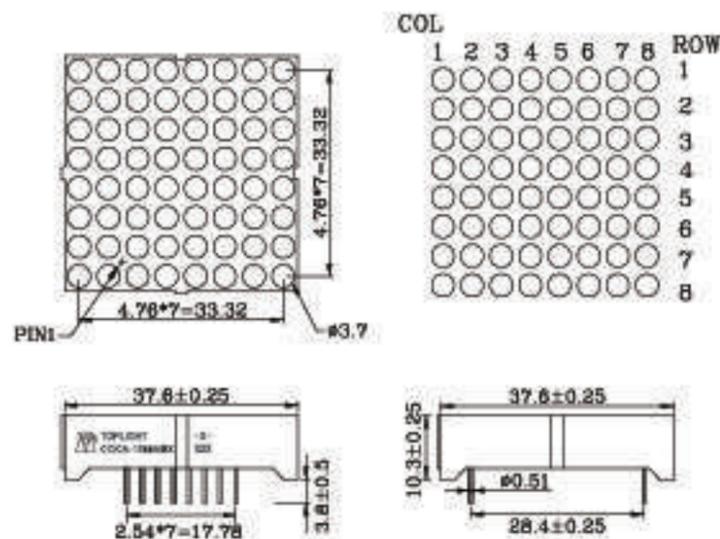
TOPLIGHT CC-R1099CX



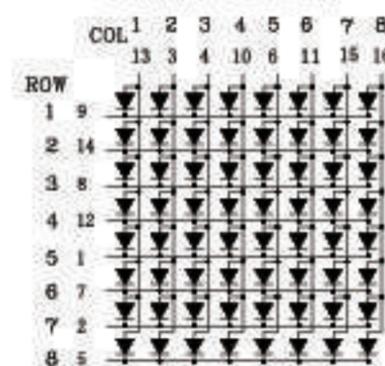
TOPLIGHT CA-R1099DX



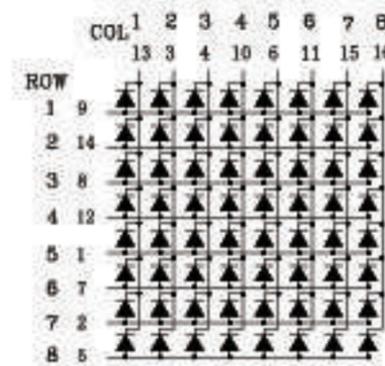
TOPLIGHT CC/CA-1588A/BX



TOPLIGHT CC-1588AX



TOPLIGHT CA-1588BX



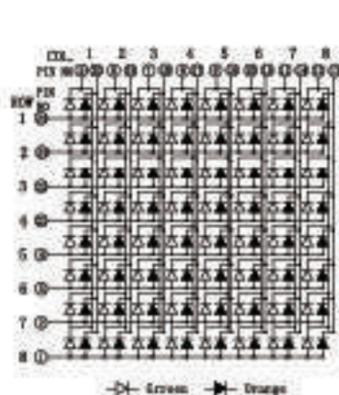
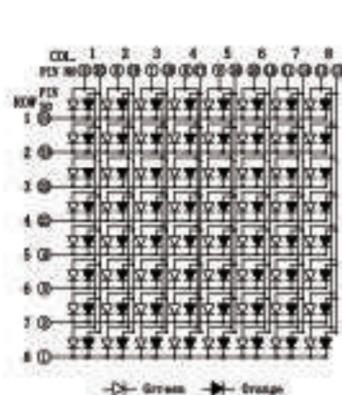
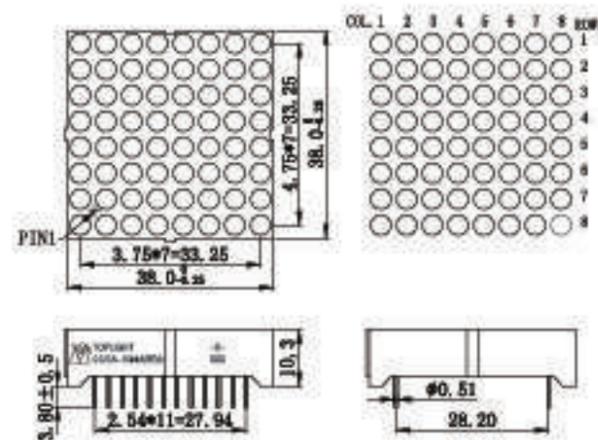
*: 定向开发

点阵模块 P1-P2-P3-P4
Dot matrix Display

TOPLIGHT CC/CA-1588A/BEG

TOPLIGHT CC-1588AEG

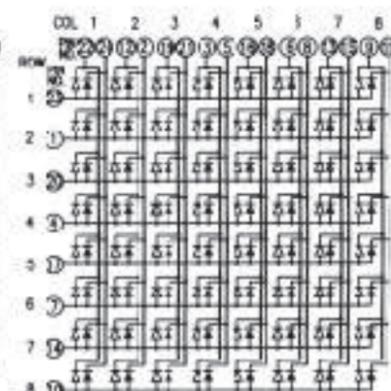
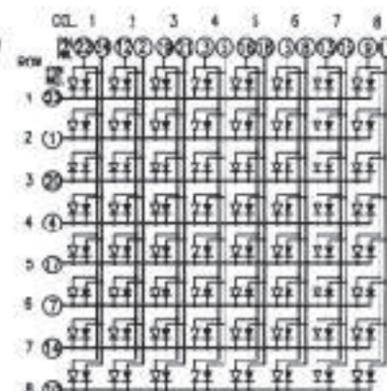
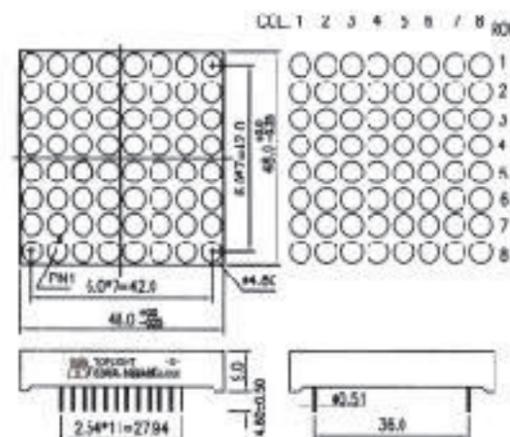
TOPLIGHT CA-1588BEG



TOPLIGHT CC/CA-1988A/BEG

TOPLIGHT CC-1988AEG

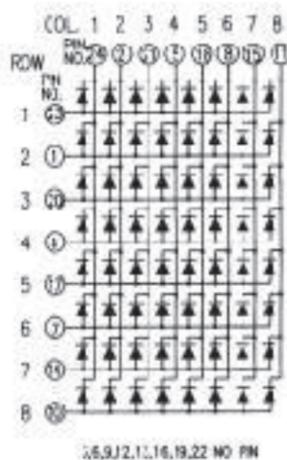
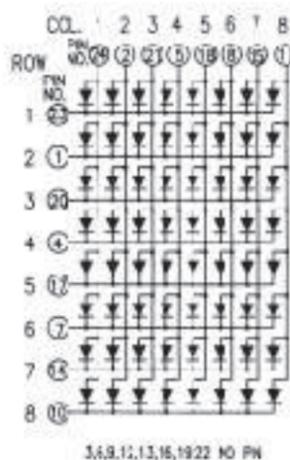
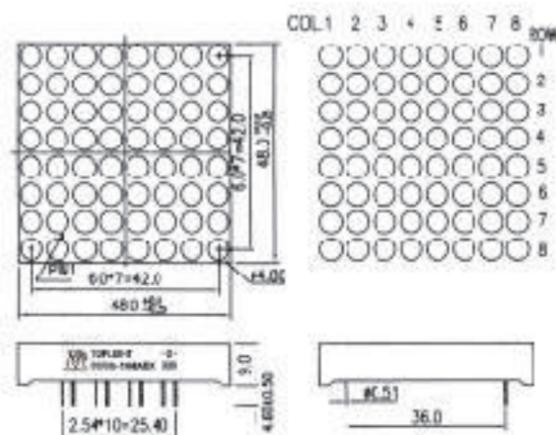
TOPLIGHT CA-1988BEG



TOPLIGHT CC/CA-1988A/BX

TOPLIGHT CC-1988AX

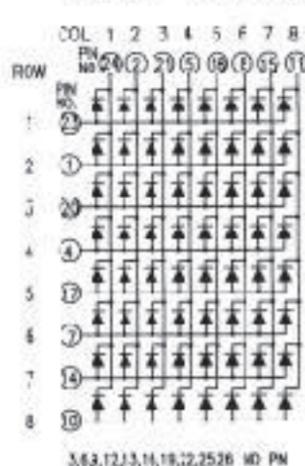
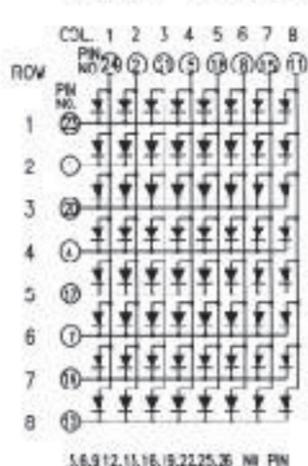
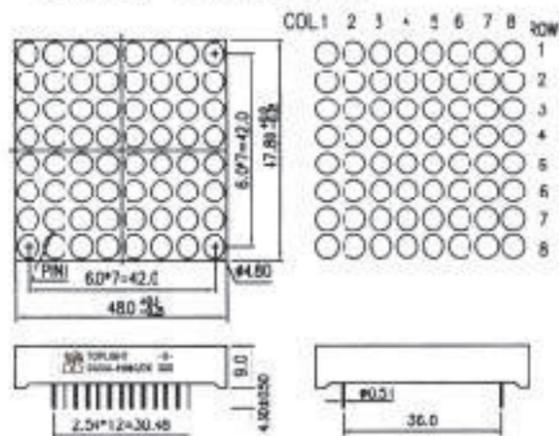
TOPLIGHT CA-1988BX



TOPLIGHT CC/CA-1988C/DX

TOPLIGHT CC-1988CX

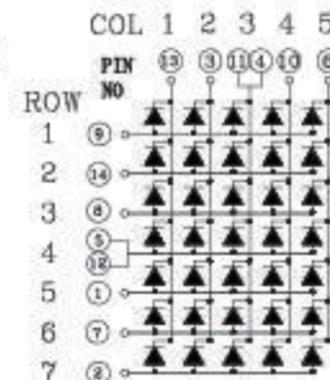
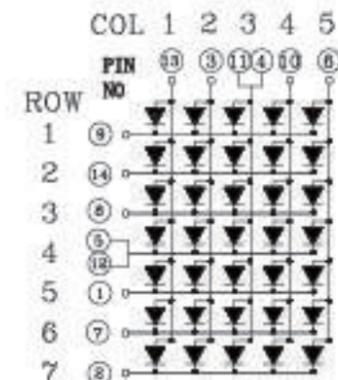
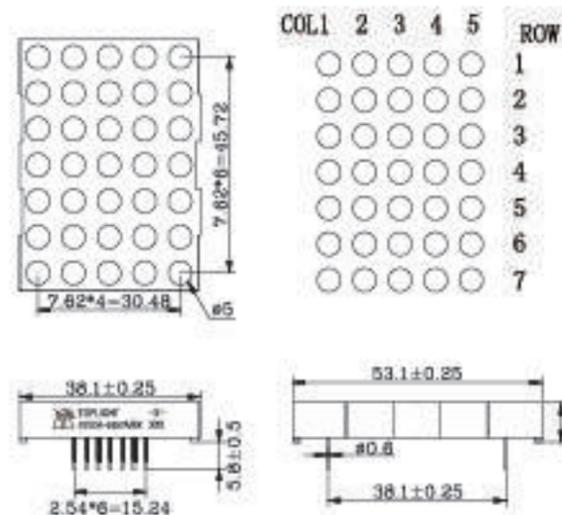
TOPLIGHT CA-1988DX



TOPLIGHT CC/CA-2057A/BX

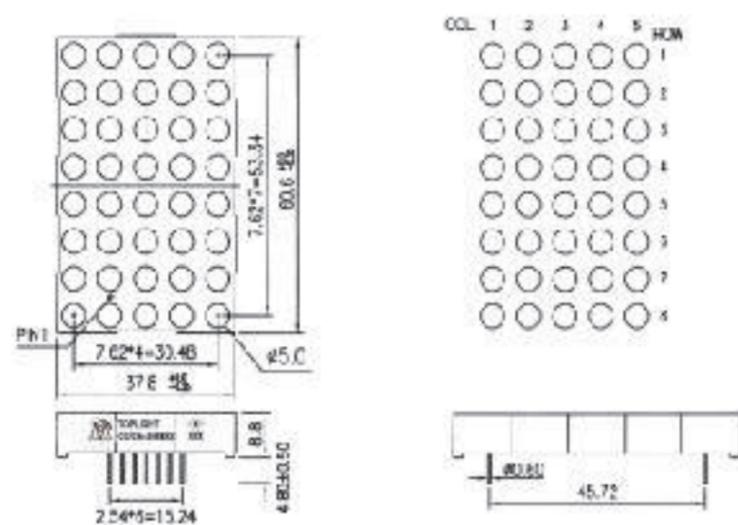
TOPLIGHT CC-2057AX

TOPLIGHT CA-2057BX

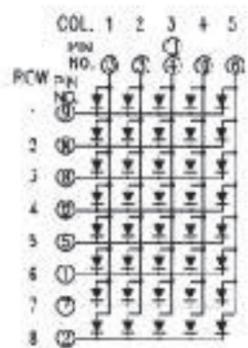


点阵模块 1*7-1*5-1*4
Dot matrix Display

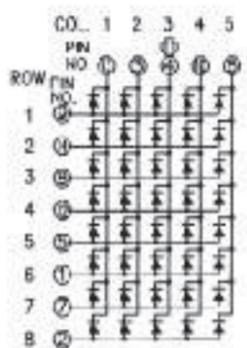
TOPLIGHT CC/CA-2058A/BX
C/DX



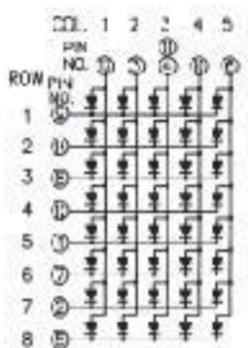
TOPLIGHT CC-2058AX



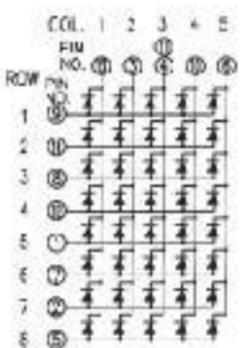
TOPLIGHT CA-2058BX



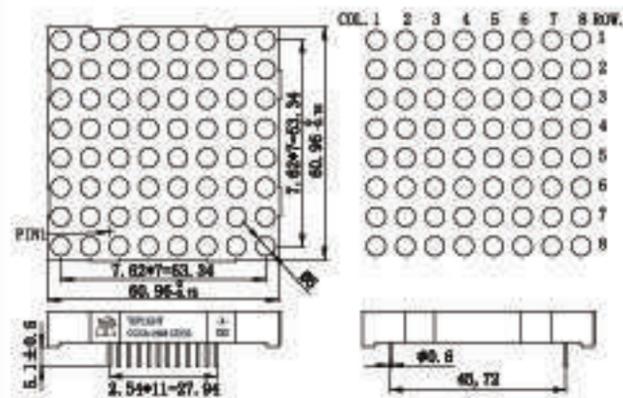
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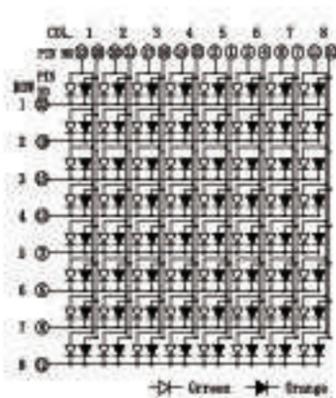
TOPLIGHT CA-2058DX



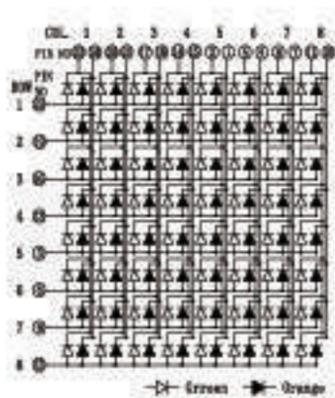
TOPLIGHT CC/CA-2088C/DEG



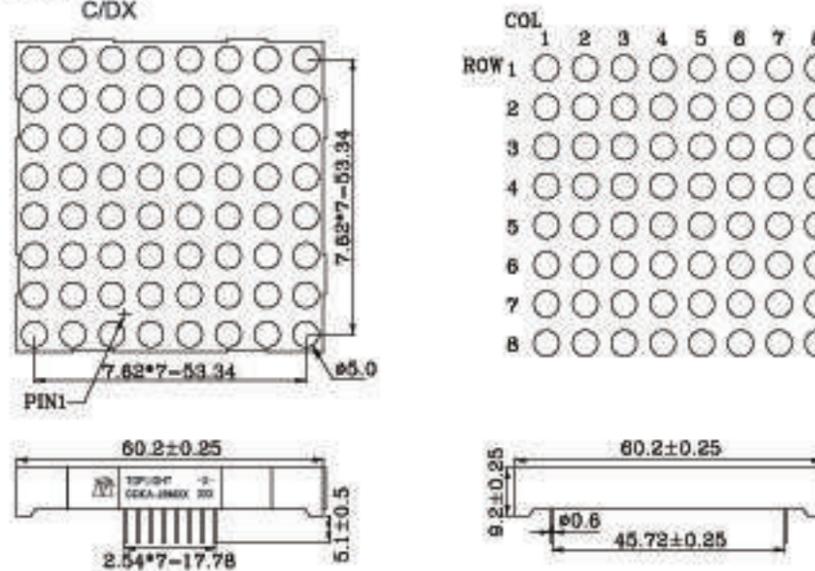
TOPLIGHT CC-2088CEG



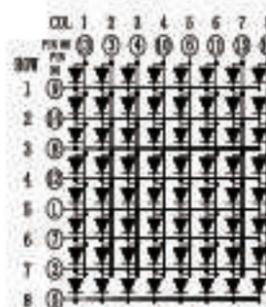
TOPLIGHT CC-2088DEG



TOPLIGHT CC/CA-2088A/BX
C/DX



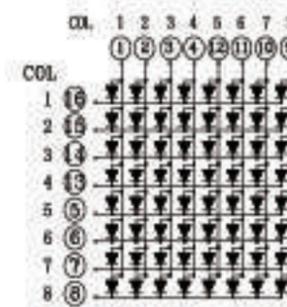
TOPLIGHT CC-2088AX



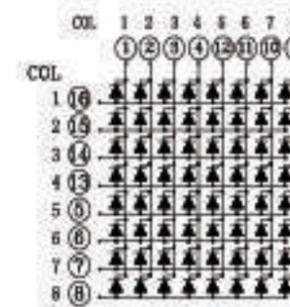
TOPLIGHT CA-2088BX



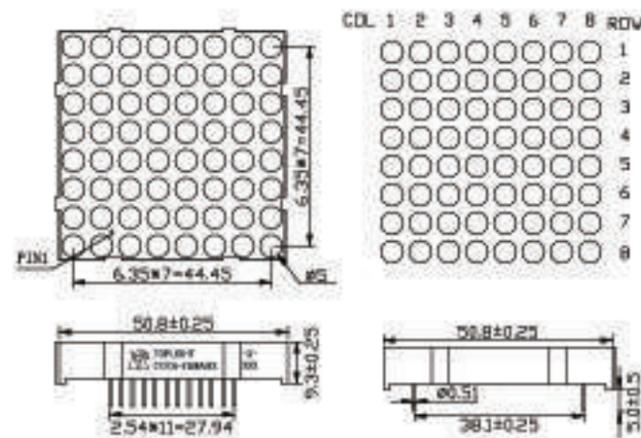
TOPLIGHT CC-2088CX



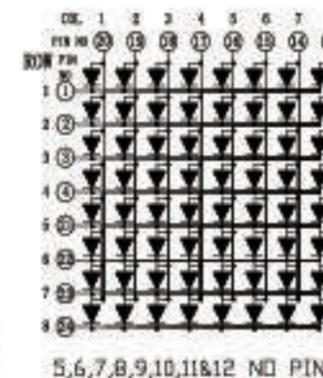
TOPLIGHT CA-2088DX



TOPLIGHT CC/CA-5188A/BX

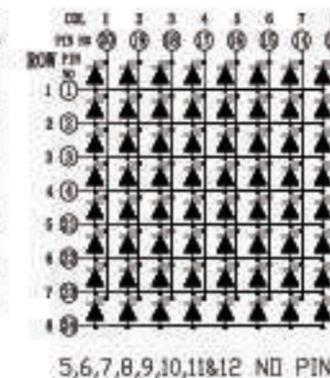


TOPLIGHT CC-5188AX



5,6,7,8,9,10,11&12 NO PIN

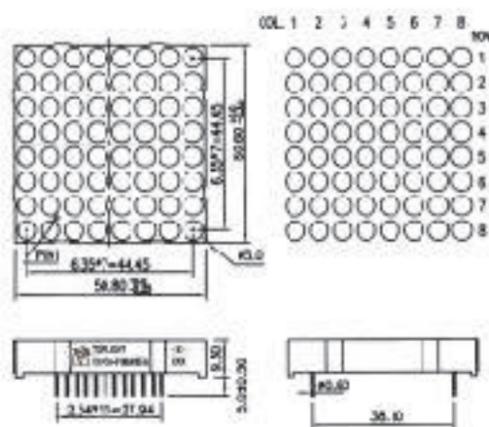
TOPLIGHT CC-5188BX



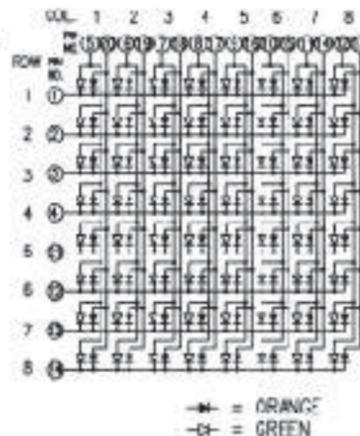
5,6,7,8,9,10,11&12 NO PIN

点阵模块 1.4-1.42-1.4
Dot matrix Display

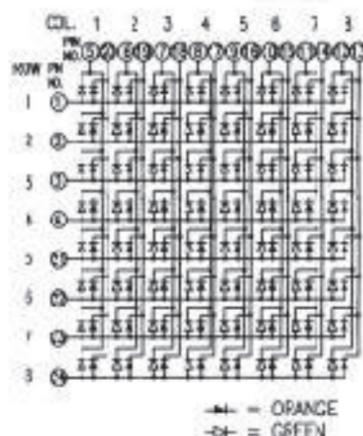
TOPLIGHT CC/CA-5188A/BEG



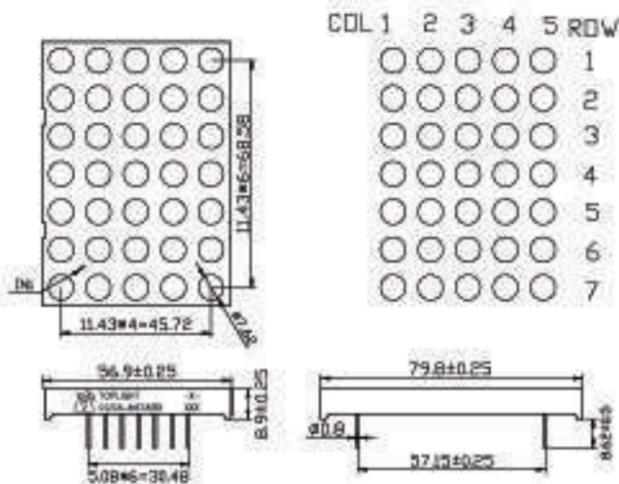
TOPLIGHT CC-5188AEG



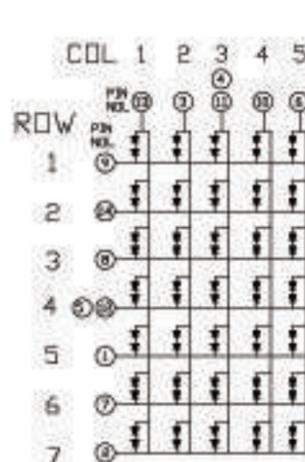
TOPLIGHT CC-5188BEG



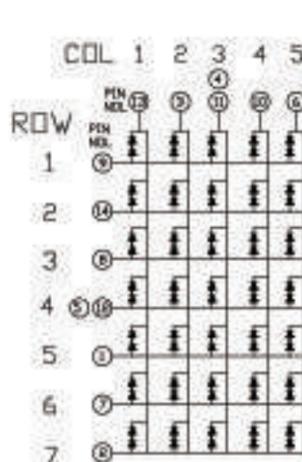
TOPLIGHT CC/CA-3057A/BX



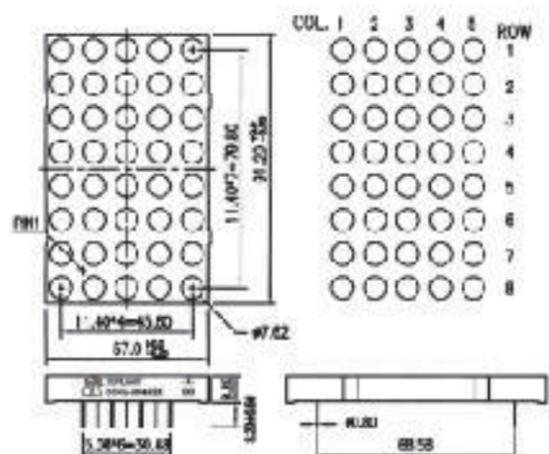
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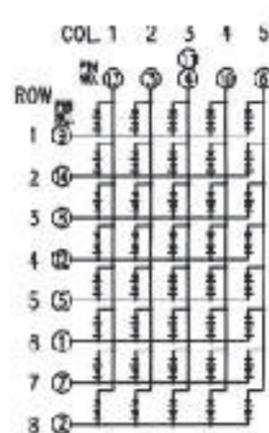
TOPLIGHT CC-3057BX



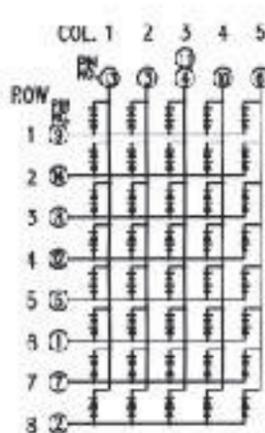
TOPLIGHT CC/CA-3058A/BX



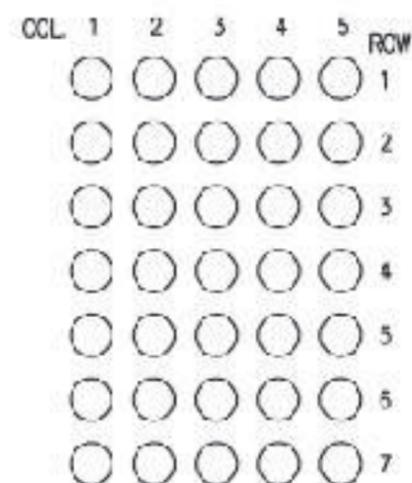
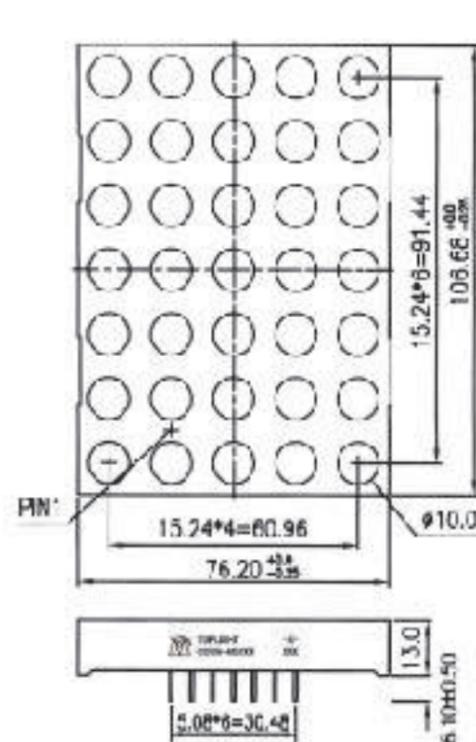
TOPLIGHT CC-3058AX



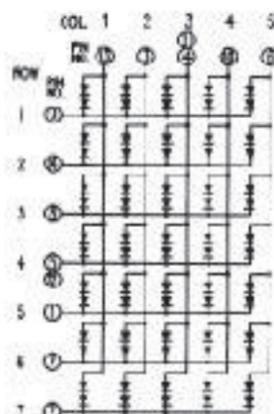
TOPLIGHT CA-3058BX



TOPLIGHT CC/CA-4057A/BX
C/DX



TOPLIGHT CC-4057AX



TOPLIGHT CA-4057BX



TOPLIGHT CC-4057CX

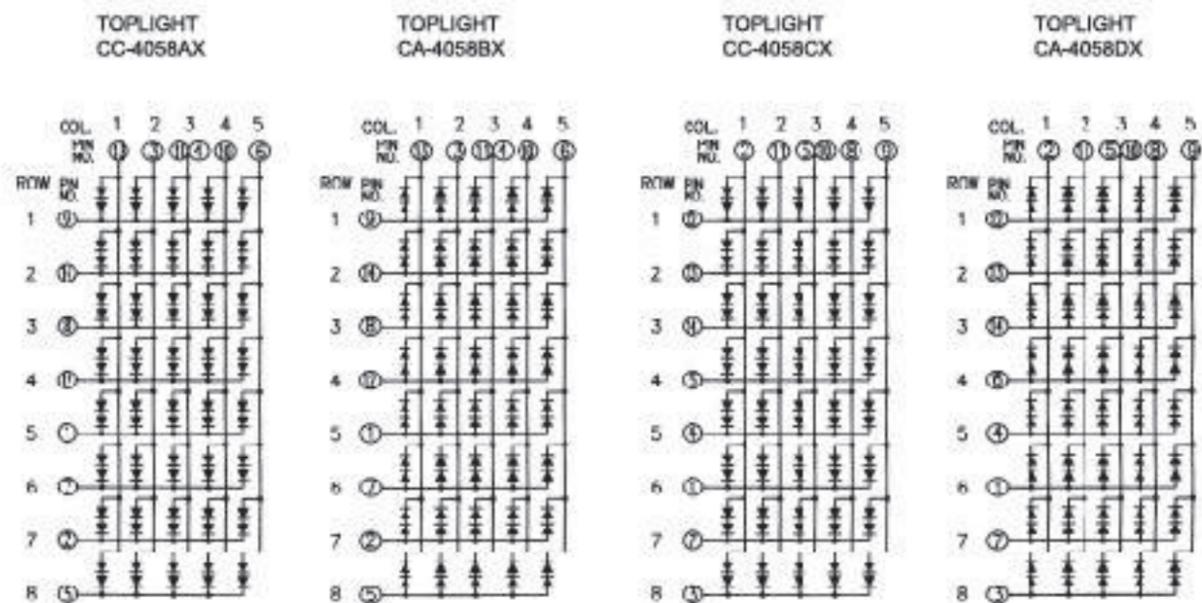
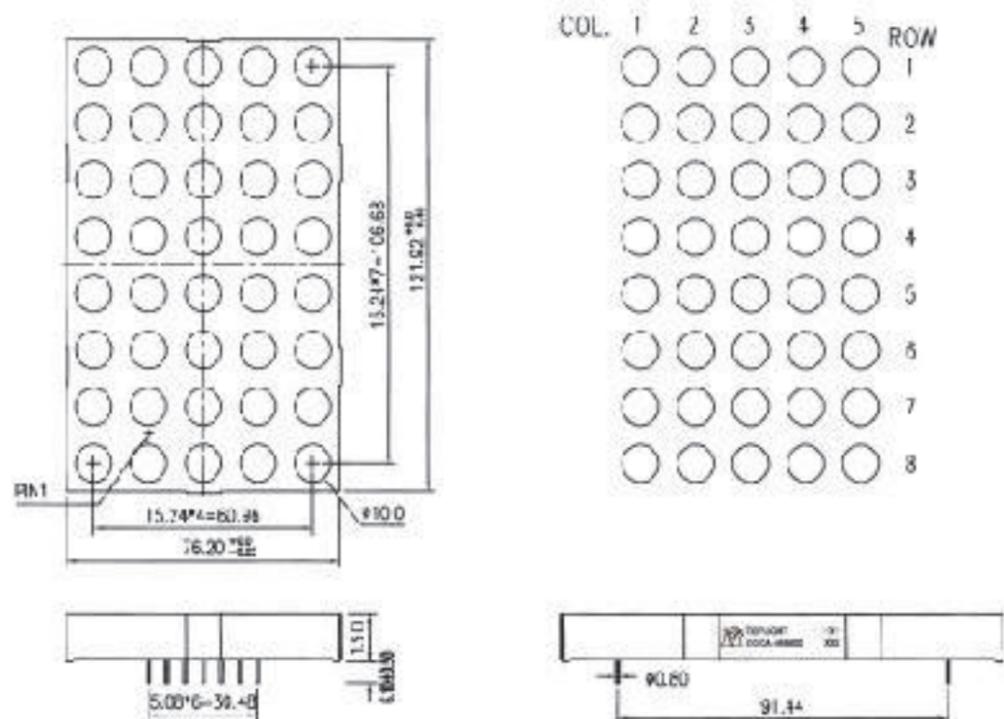


TOPLIGHT CA-4057DX

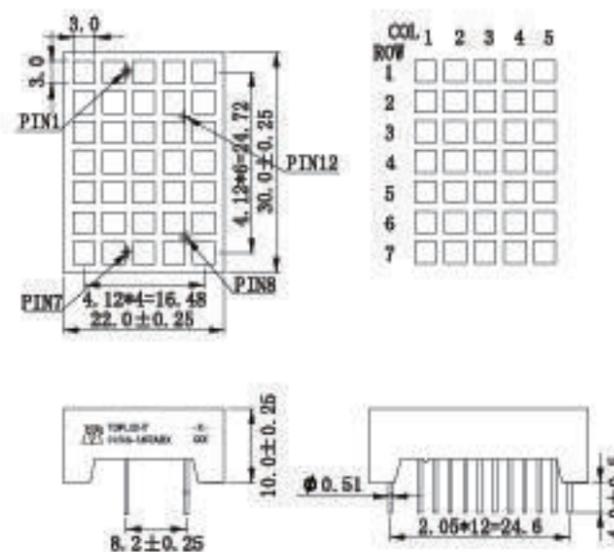


原廠規格 7-1-4057-A
Original Display

TOPLIGHT CC/CA-4058A/BX
C/DX

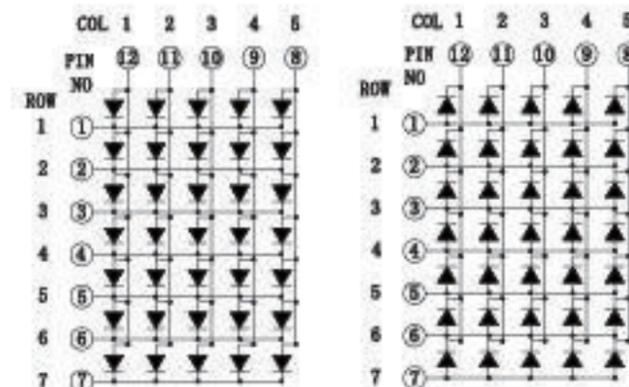


TOPLIGHT CC/CA-1357A/BX

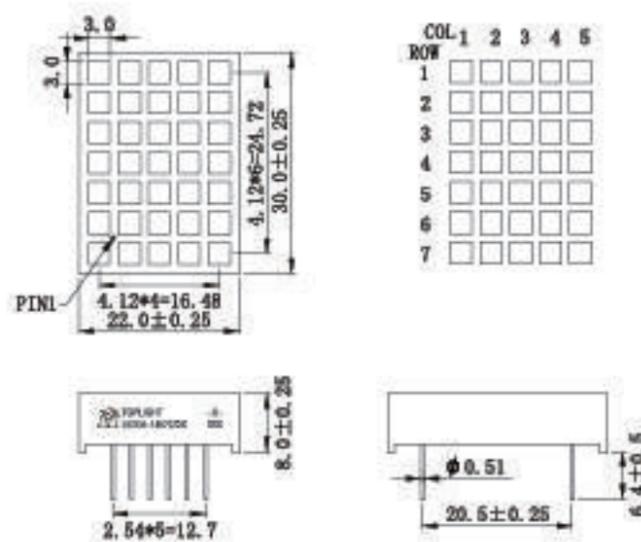


TOPLIGHT CC-1357AX

TOPLIGHT CA-1357BX

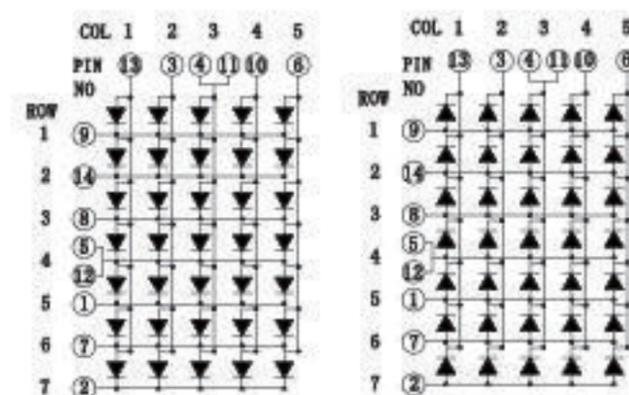


TOPLIGHT CC/CA-1357C/DX

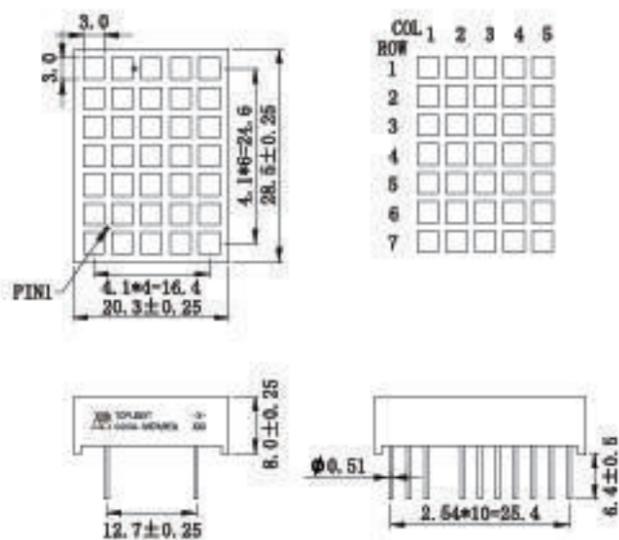


TOPLIGHT CC-1357CX

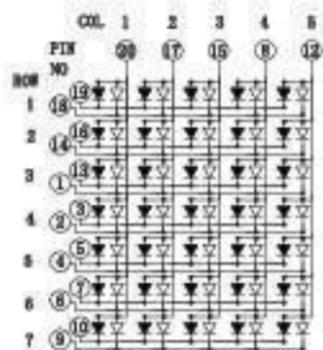
TOPLIGHT CA-1357DX



TOPLIGHT CC/CA-1357A/BEG

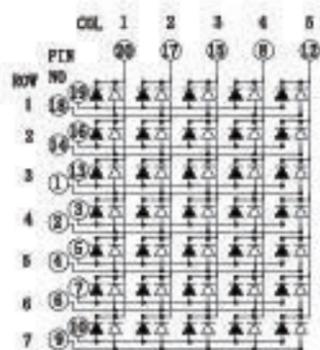


TOPLIGHT CC-1357AEG



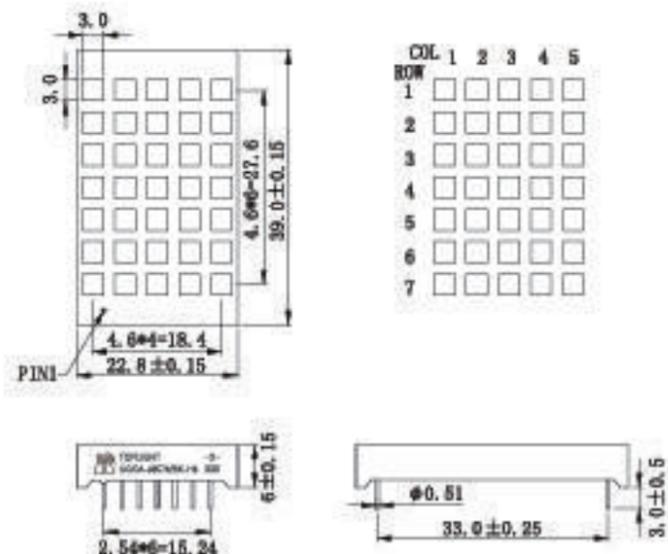
→ Green → Red

TOPLIGHT CA-1357BEG

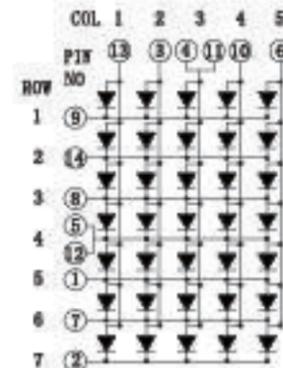


→ Green → Red

TOPLIGHT CC/CA-3357A/BX-H6



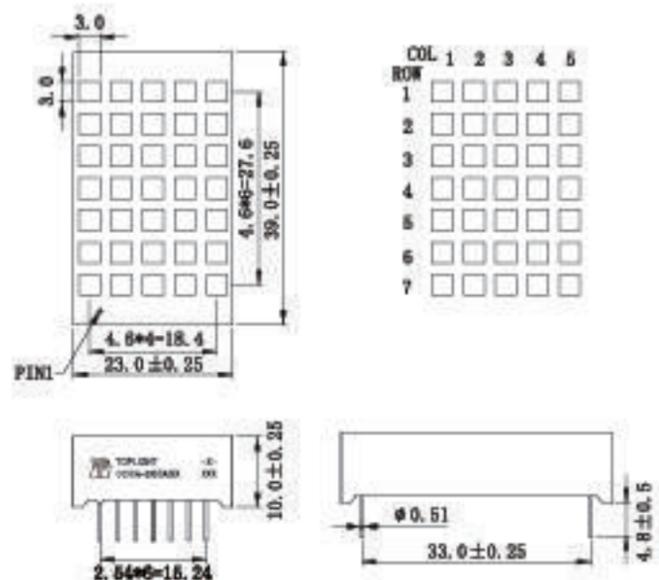
TOPLIGHT CC-3357AX-H6



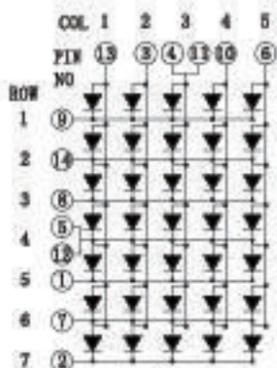
TOPLIGHT CA-3357BX-H6



TOPLIGHT CC/CA-3357A/BX



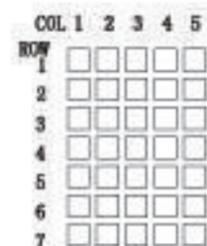
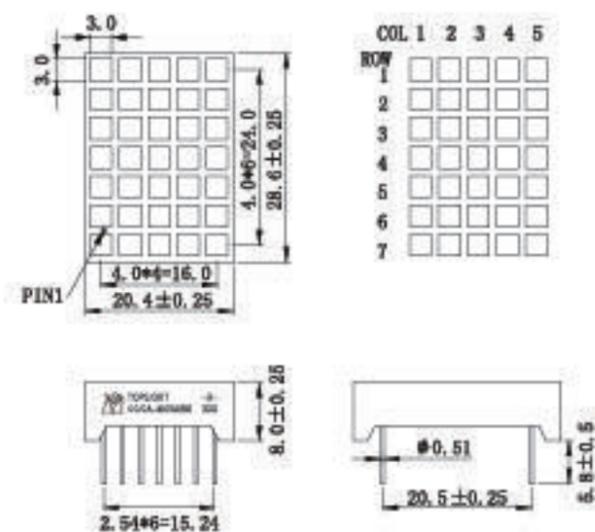
TOPLIGHT CC-3357AX



TOPLIGHT CA-3357BX



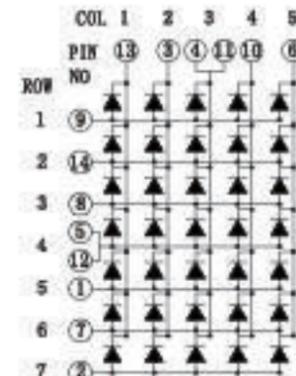
TOPLIGHT CC/CA-3375A/BX



TOPLIGHT CC-3375AX

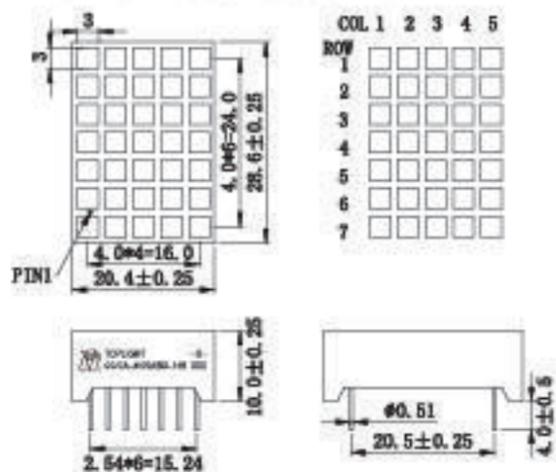


TOPLIGHT CA-3375BX

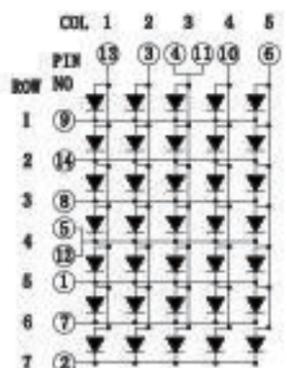


原廠規格: T71-022-A
 Optomax Display

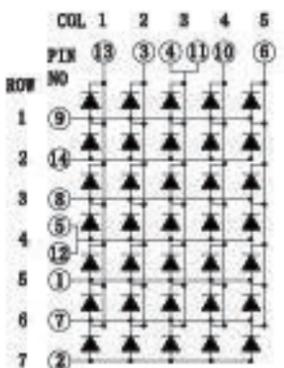
TOPLIGHT CC/CA-3375A/BX-10B



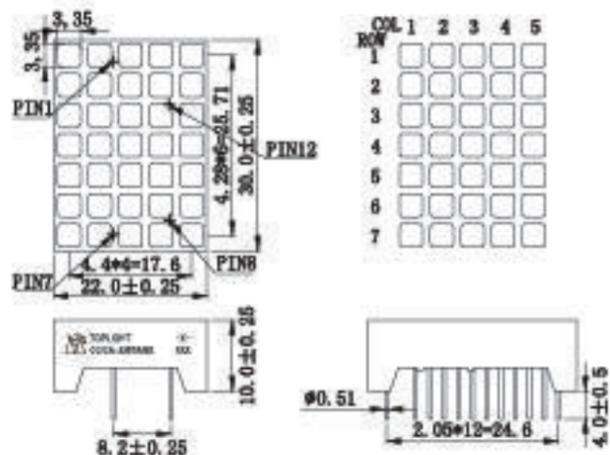
TOPLIGHT CC-3375AX-10B



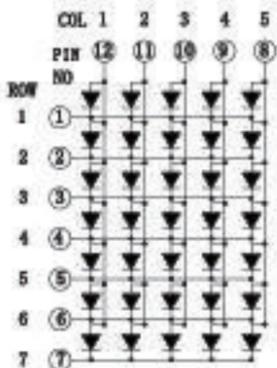
TOPLIGHT CA-3375BX-10B



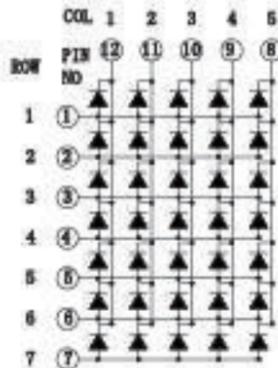
* TOPLIGHT CC/CA-2357A/BX



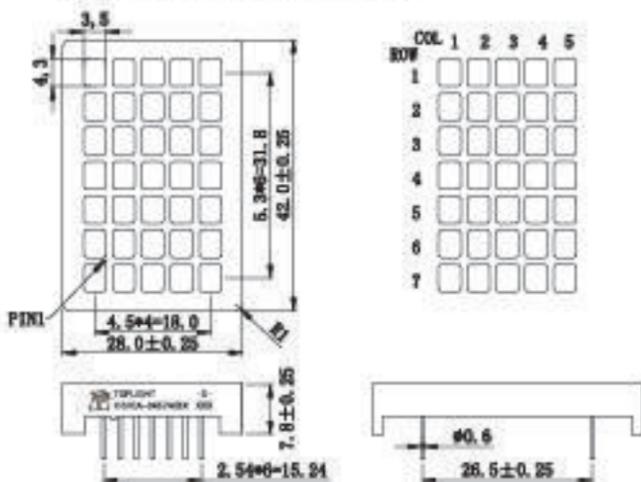
TOPLIGHT CC-2357AX



TOPLIGHT CA-2357BX



* TOPLIGHT CC/CA-3457A/BX



TOPLIGHT CC-3457AX

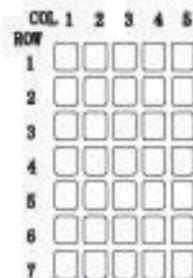
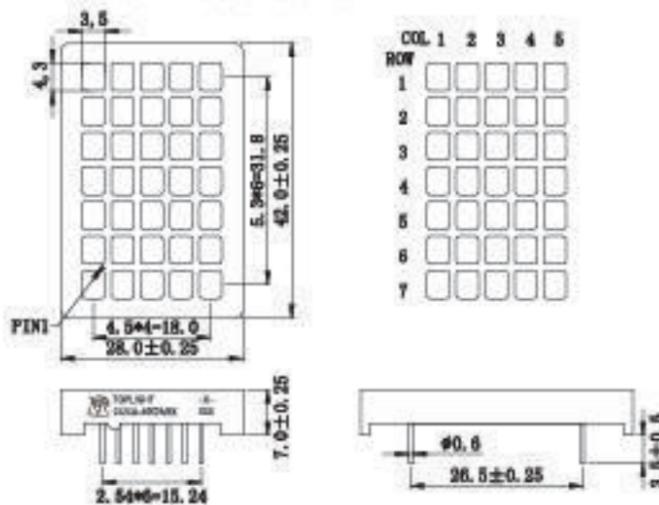


TOPLIGHT CA-3457BX



*1 定向开发

TOPLIGHT CC/CA-3557A/BX



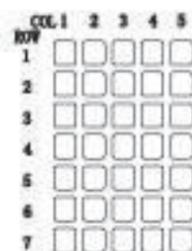
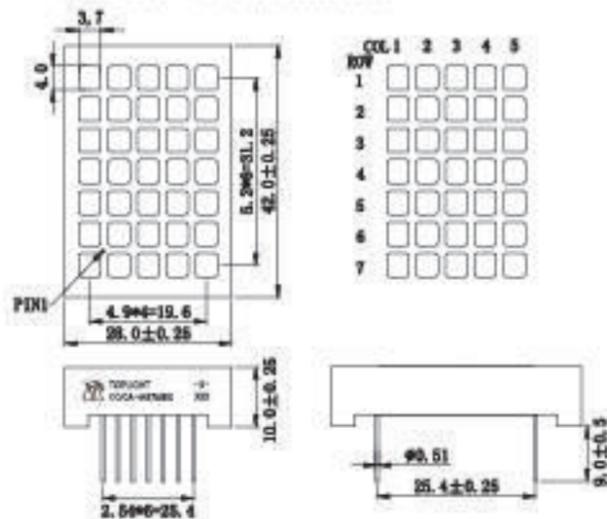
TOPLIGHT CC-3557AX



TOPLIGHT CA-3557BX



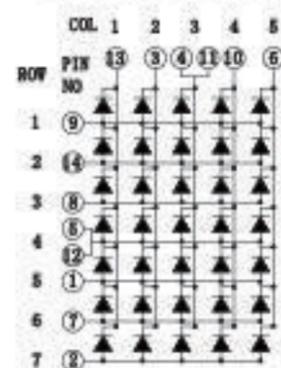
TOPLIGHT CC/CA-4457A/BX



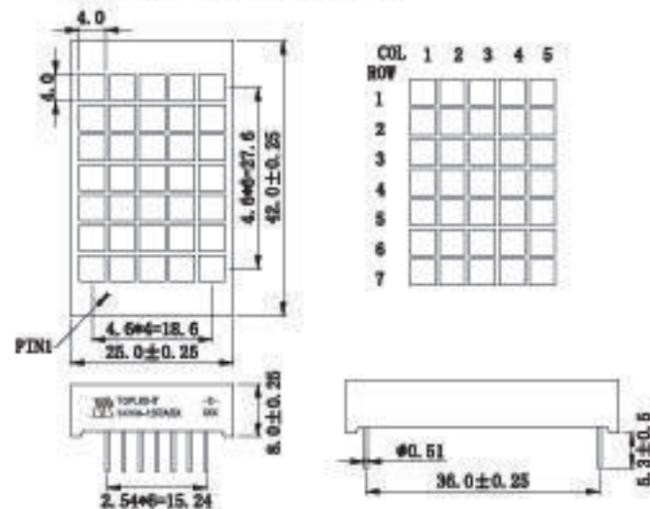
TOPLIGHT CC-4457AX



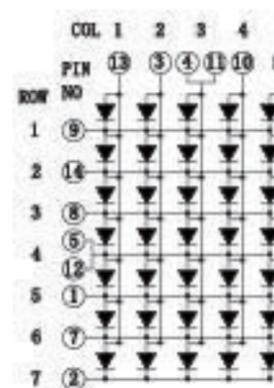
TOPLIGHT CA-4457BX



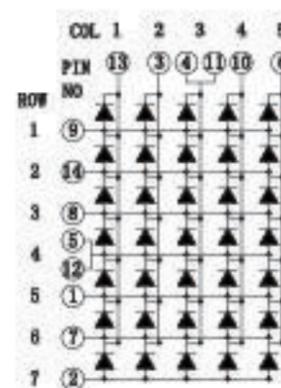
TOPLIGHT CC/CA-1257A/BX



TOPLIGHT CC-1257AX

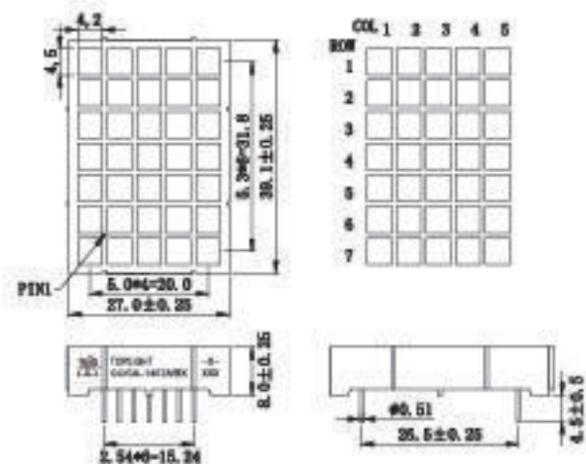


TOPLIGHT CA-1257BX



定向开发
Development Display

TOPLIGHT CC/CA-1457A/BX



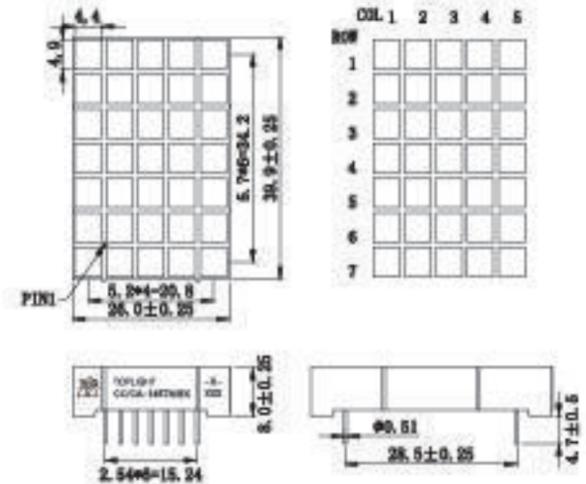
TOPLIGHT CC-1457AX



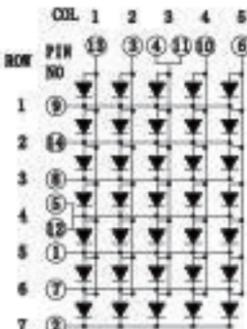
TOPLIGHT CA-1457BX



TOPLIGHT CC/CA-1657A/BX



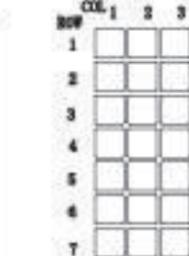
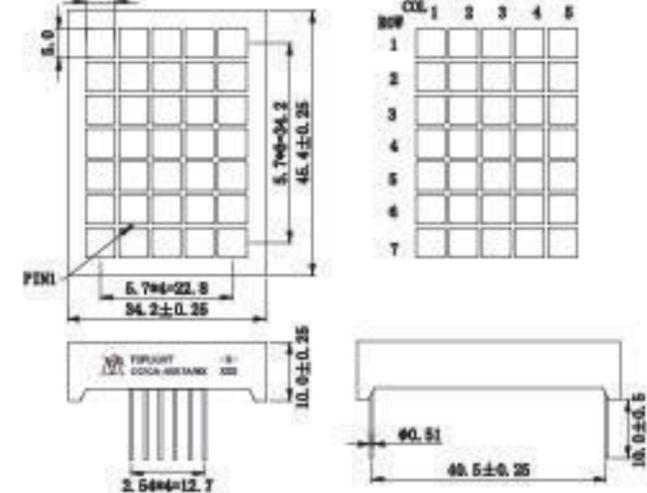
TOPLIGHT CC-1657AX



TOPLIGHT CA-1657BX



TOPLIGHT CC/CA-5557A/BX



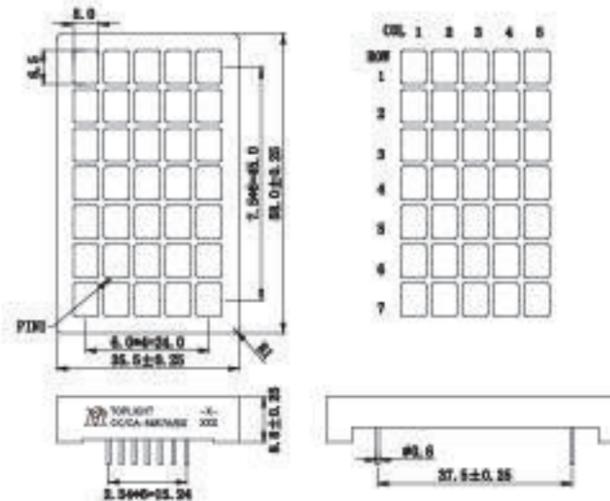
TOPLIGHT CC-5557AX



TOPLIGHT CA-5557BX



* TOPLIGHT CC/CA-5657A/BX



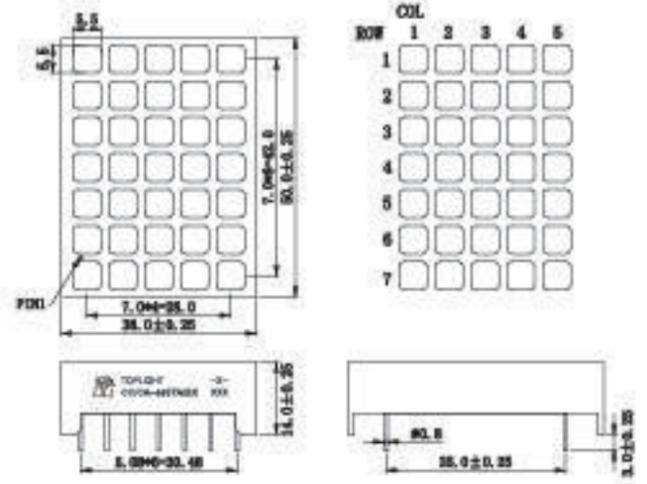
TOPLIGHT CC-5657AX



TOPLIGHT CA-5657BX



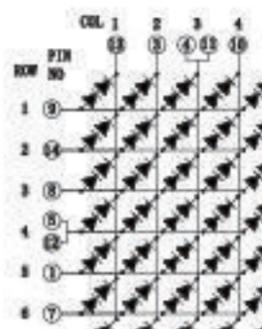
TOPLIGHT CC/CA-6657A/BX



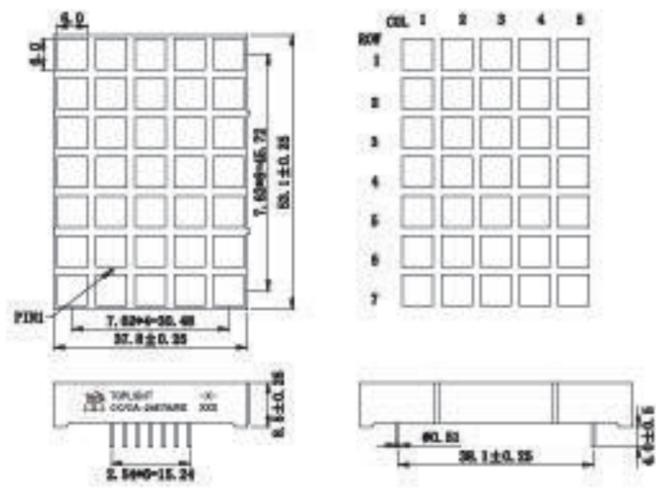
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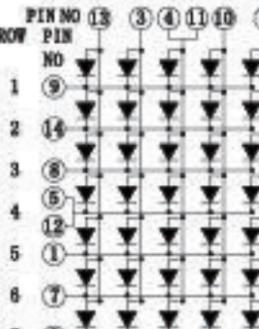
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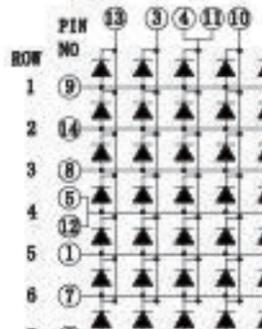
TOPLIGHT CC/CA-2457A/BX



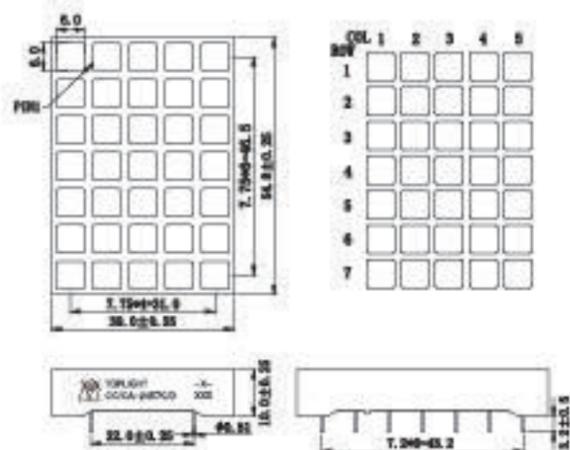
TOPLIGHT CC-2457AX



TOPLIGHT CA-2457BX



TOPLIGHT CC/CA-2457C/DX



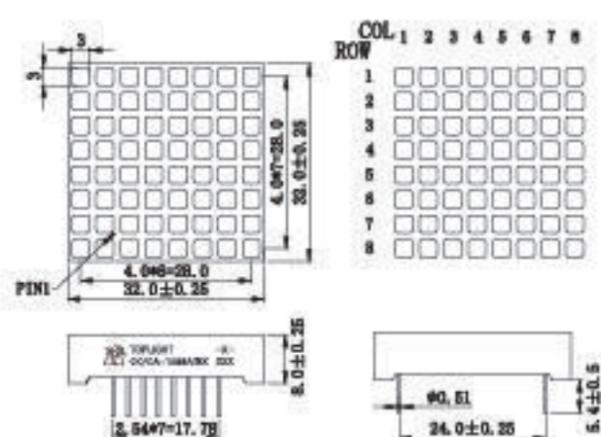
TOPLIGHT CC-2457CX



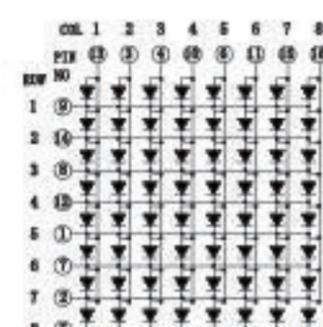
TOPLIGHT CA-2457DX



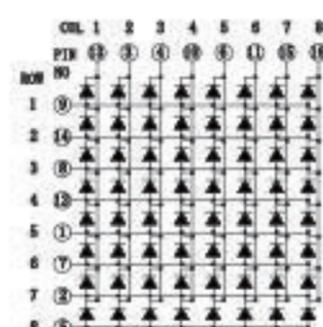
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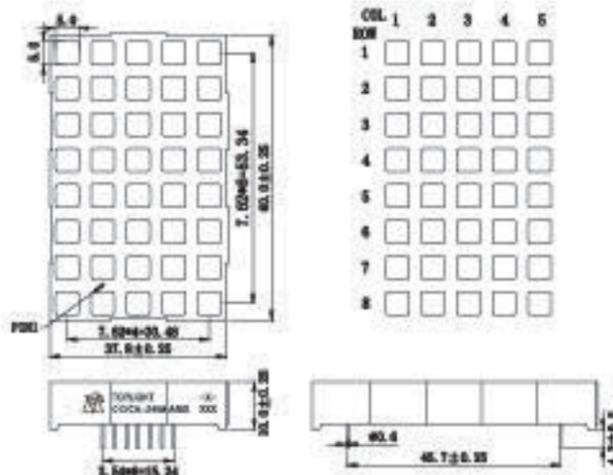
TOPLIGHT CC-1288AX



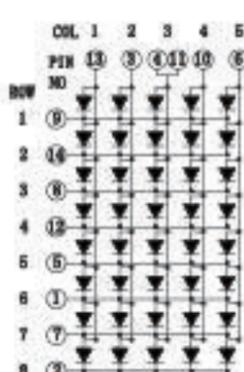
TOPLIGHT CA-1288BX



TOPLIGHT CC/CA-2458A/BX



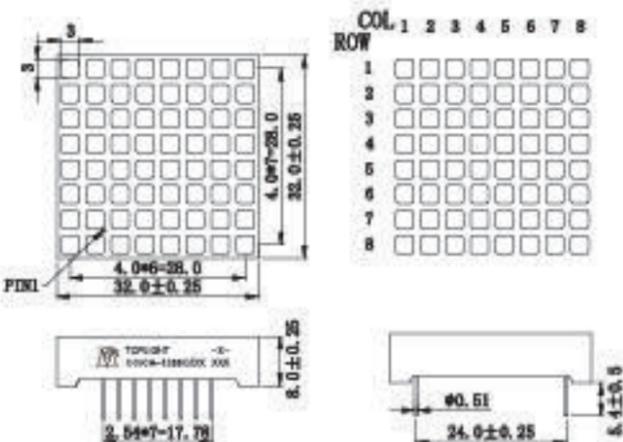
TOPLIGHT CC-2458AX



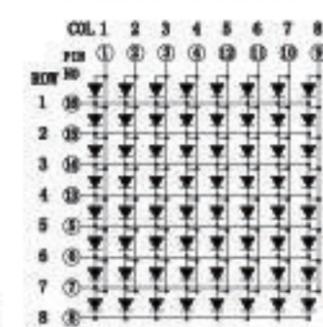
TOPLIGHT CA-2458BX



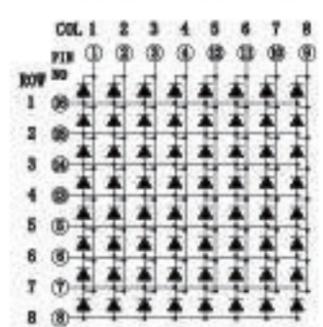
TOPLIGHT CC/CA-1288C/DX



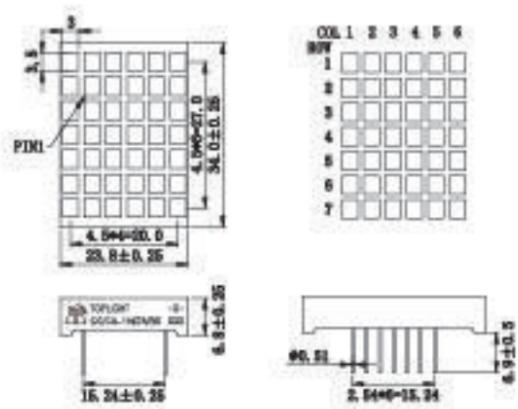
TOPLIGHT CC-1288CX



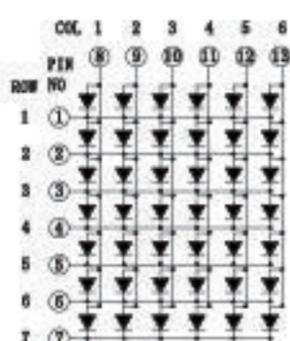
TOPLIGHT CA-1288DX



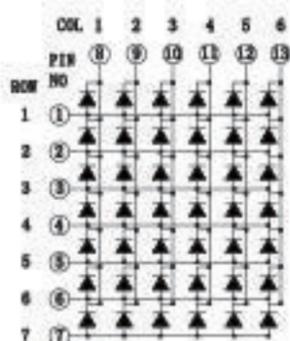
TOPLIGHT CC/CA-1067A/BX



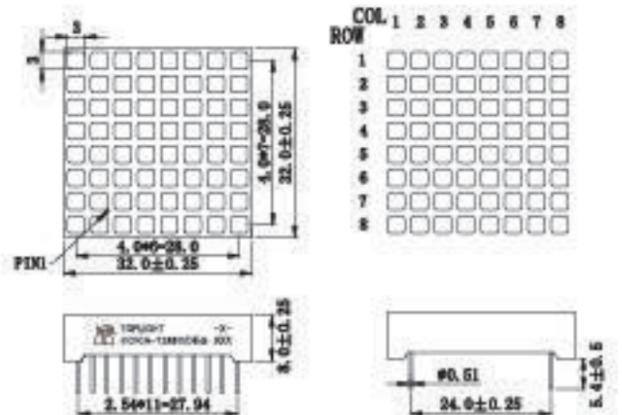
TOPLIGHT CC-1067AX



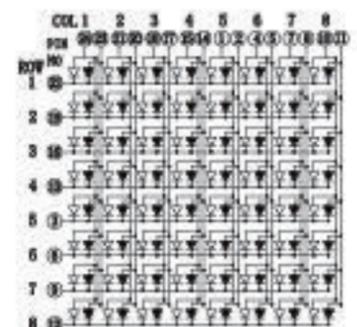
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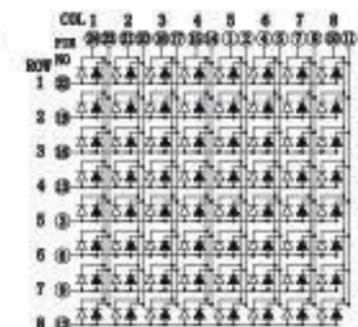
TOPLIGHT CC/CA-1288C/DEG



TOPLIGHT CC-1288CEG

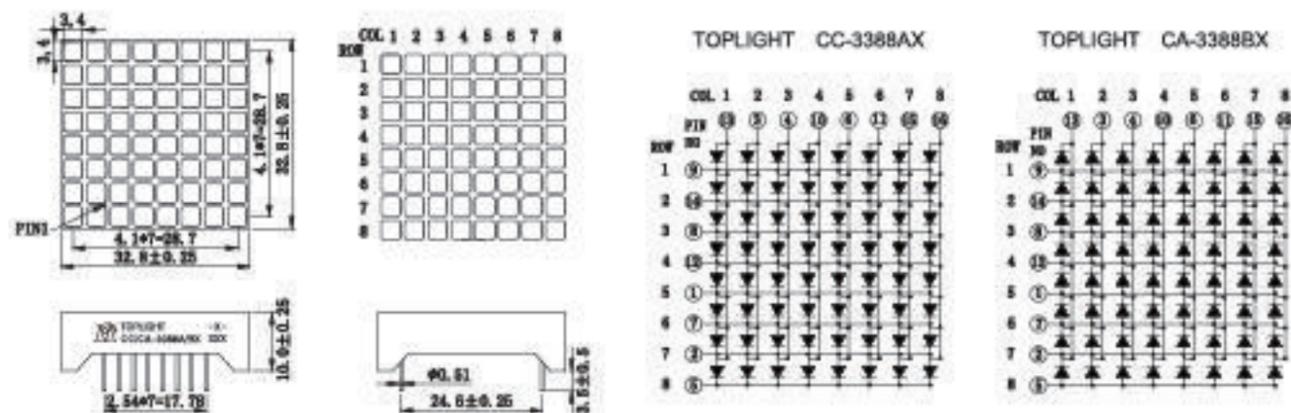


TOPLIGHT CA-1288DEG

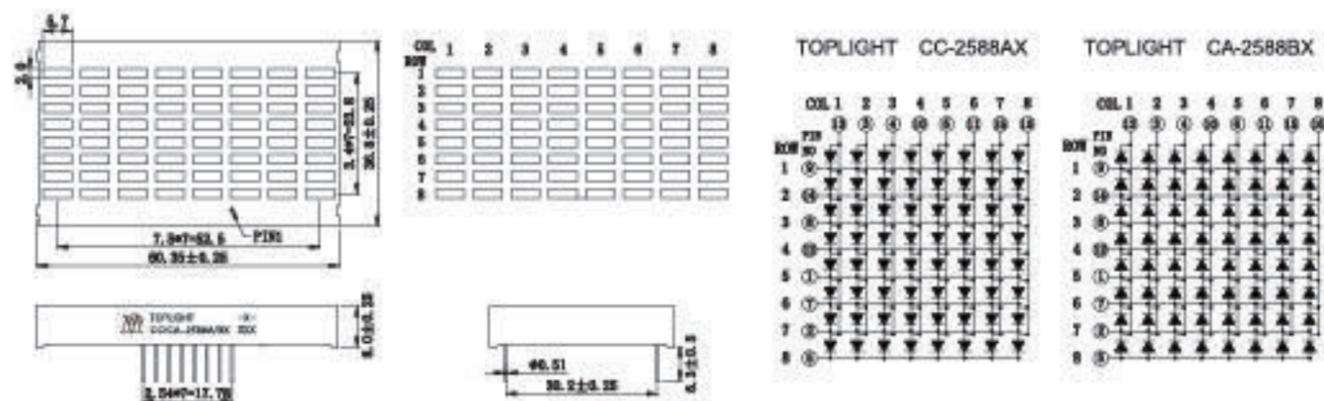


原廠規格 7-71-022-1-A
 Original Display

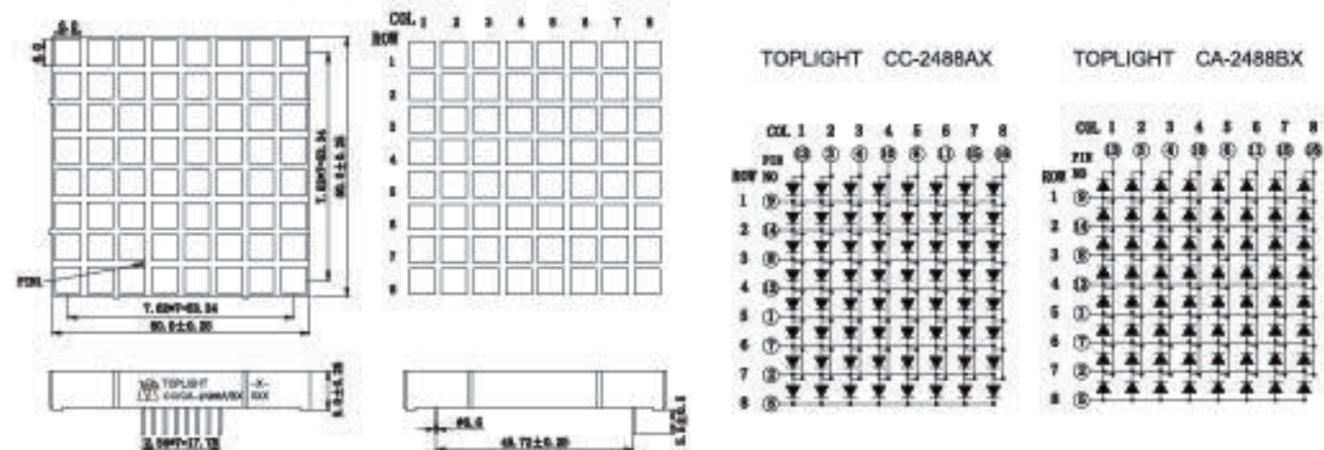
TOPLIGHT CC/CA-3388A/BX



TOPLIGHT CC/CA-2588A/BX

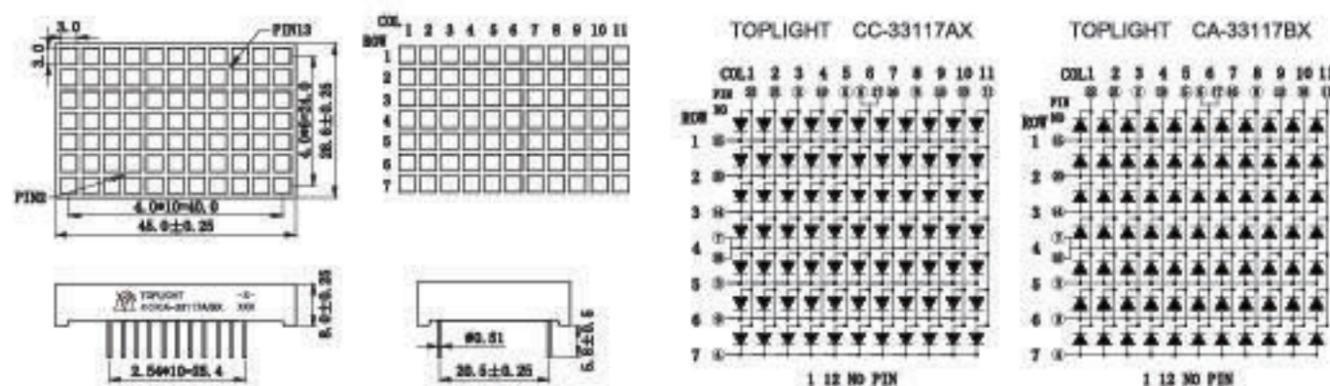


TOPLIGHT CC/CA-2488A/BX

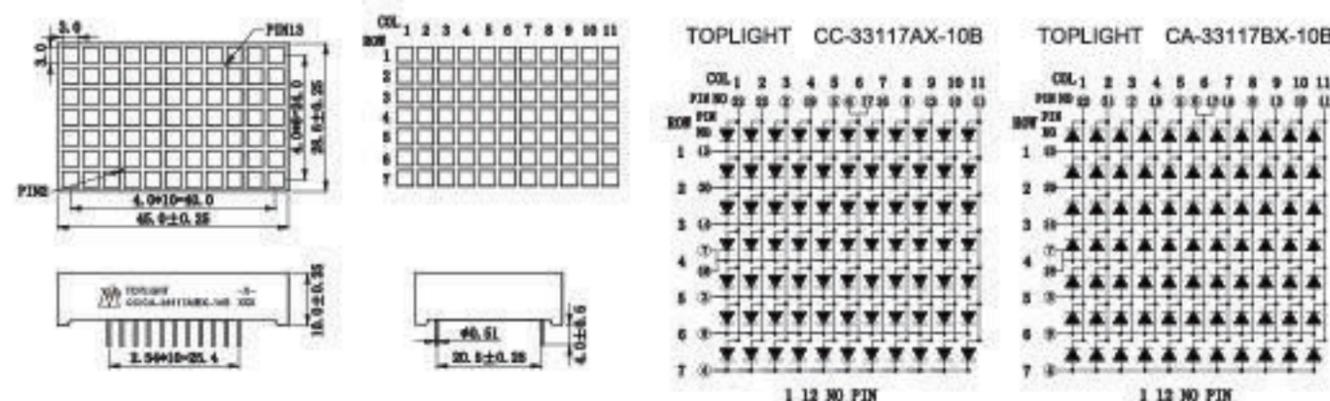


*1 定向开发

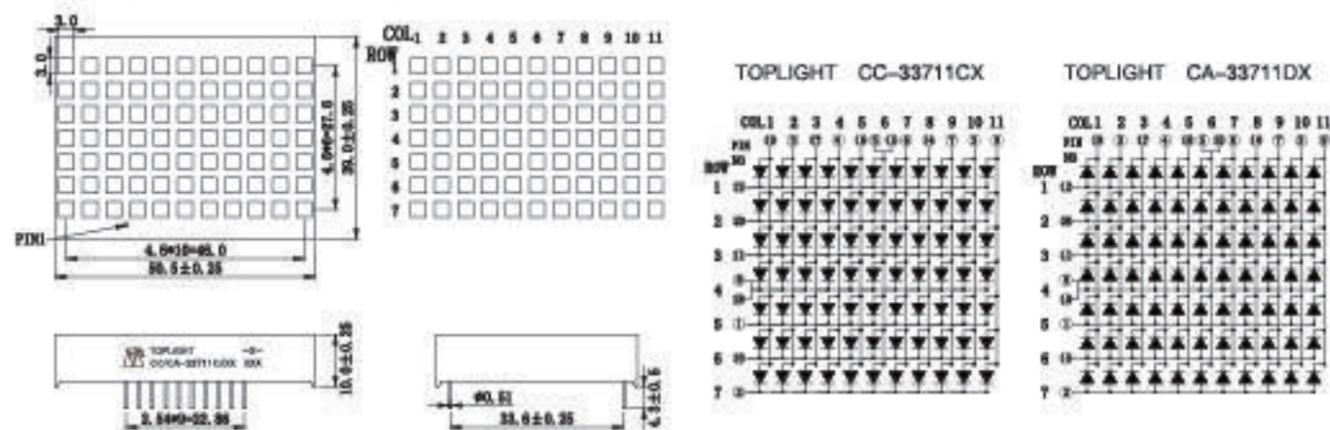
TOPLIGHT CC/CA-33117A/BX



TOPLIGHT CC/CA-33117A/BX-10B

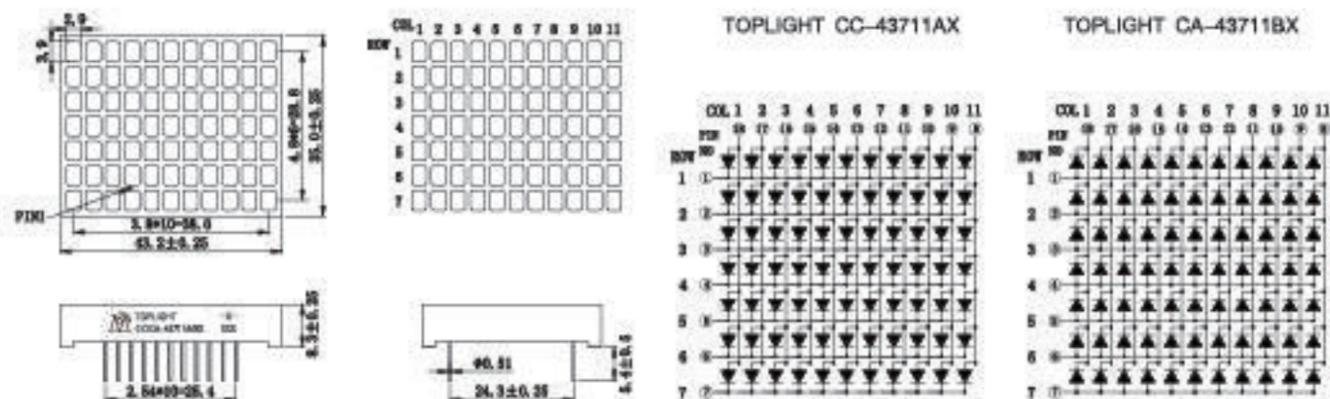


TOPLIGHT CC/CA-33711C/DX

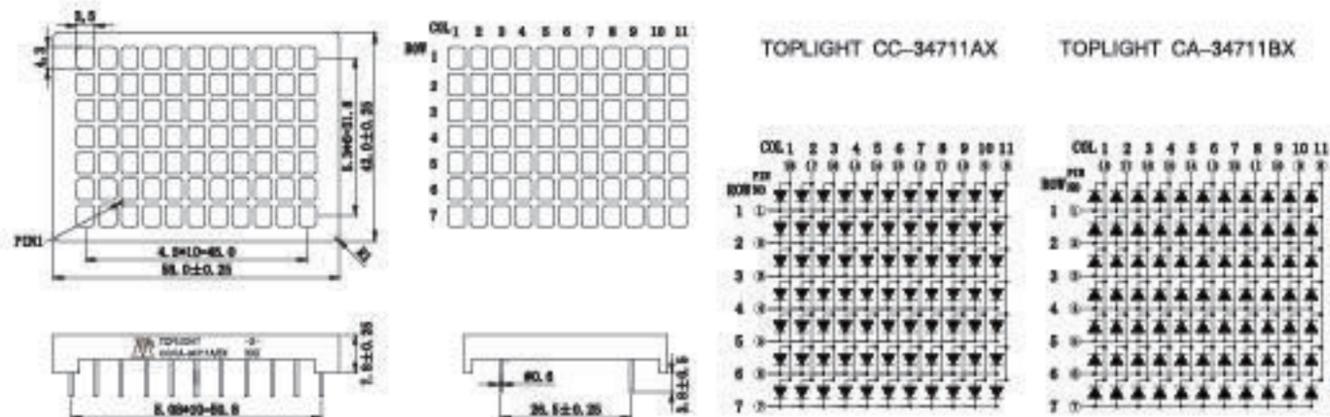


定向开发 771-422-1-1
Dedicated Display

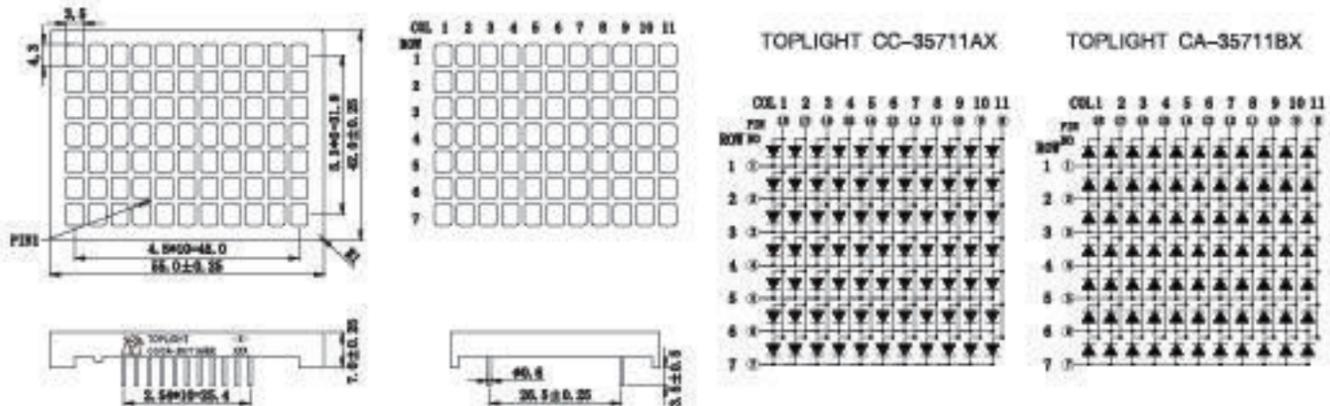
TOPLIGHT CC/CA-43711A/BX



★ TOPLIGHT CC/CA-34711A/BX

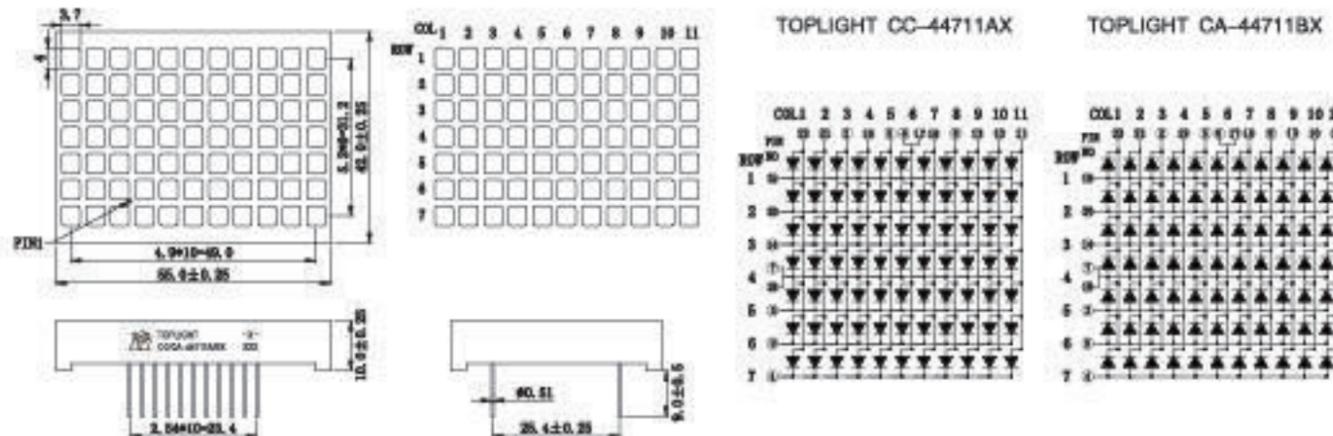


TOPLIGHT CC/CA-35711A/BX

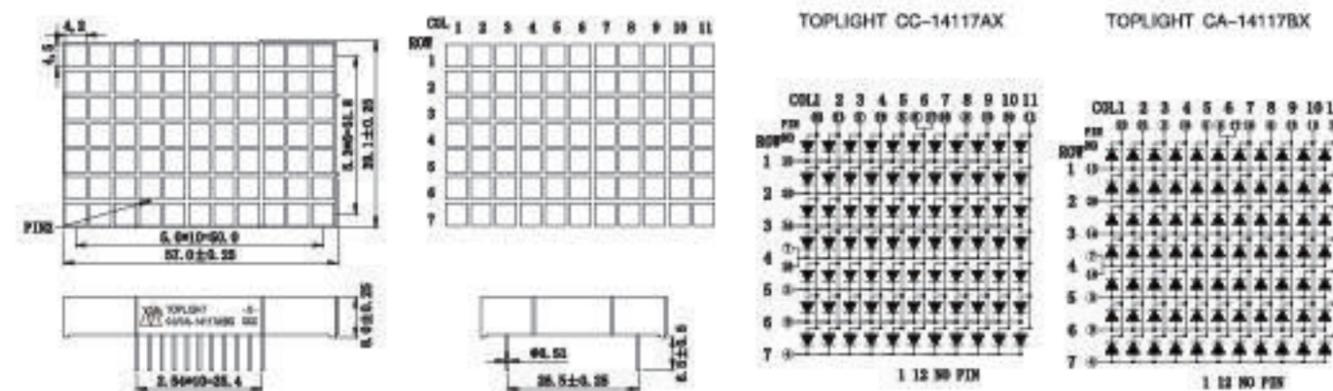


★1 定向开发

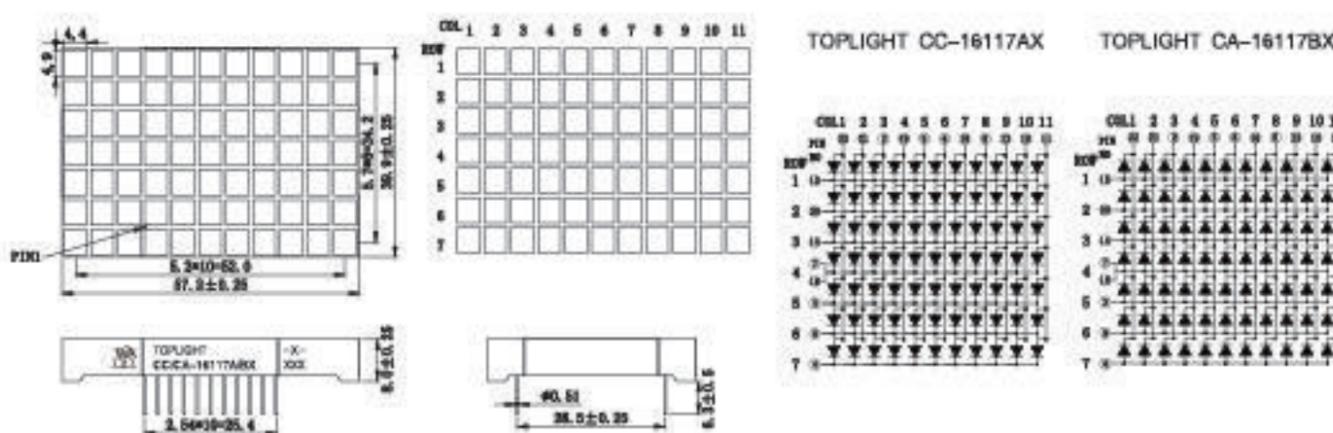
TOPLIGHT CC/CA-44711A/BX



TOPLIGHT CC/CA-14117A/BX

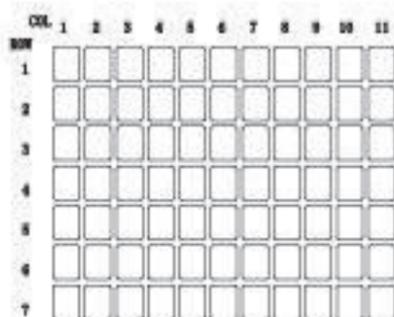
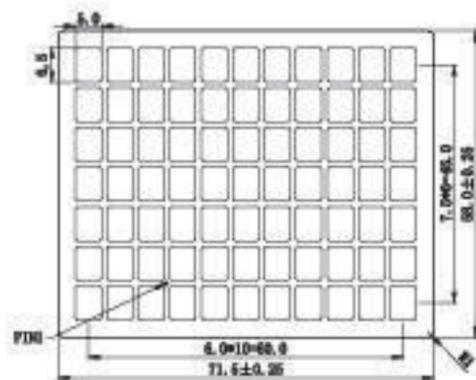


TOPLIGHT CC/CA-16117A/BX

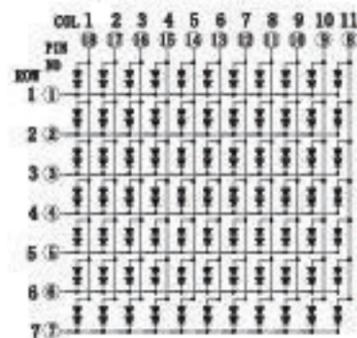


定向开发 771-43711-A
Dedicated Display

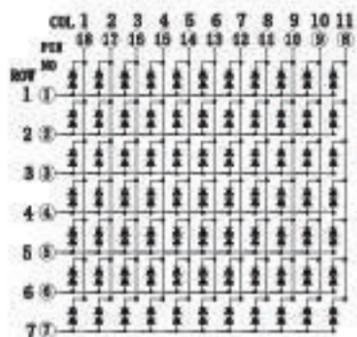
* TOPLIGHT CC/CA-56711A/BX



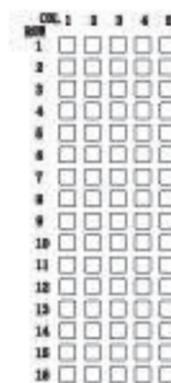
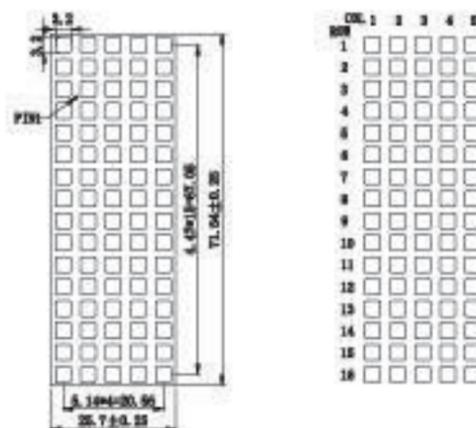
TOPLIGHT CC-56711AX



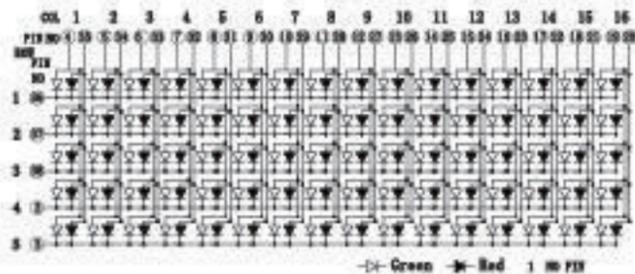
TOPLIGHT CA-56711BX



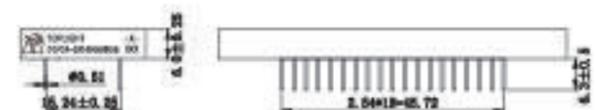
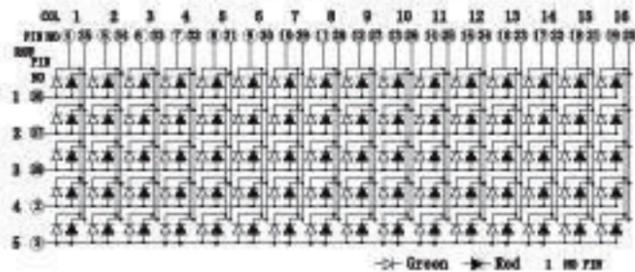
* TOPLIGHT CC/CA-331605A/BEG



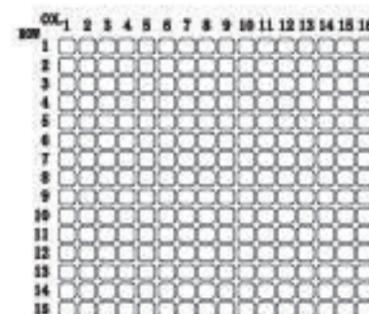
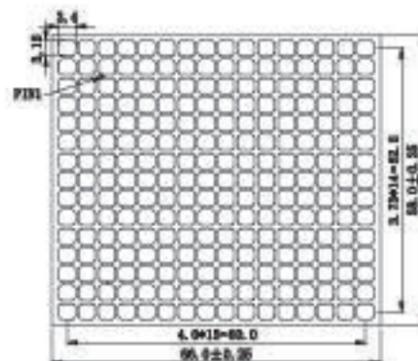
TOPLIGHT CC-331605AEG



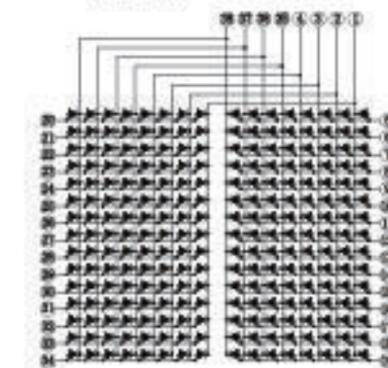
TOPLIGHT CA-331605BEG



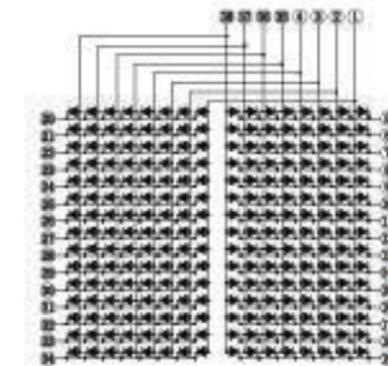
* TOPLIGHT CC/CA-331615A/BX



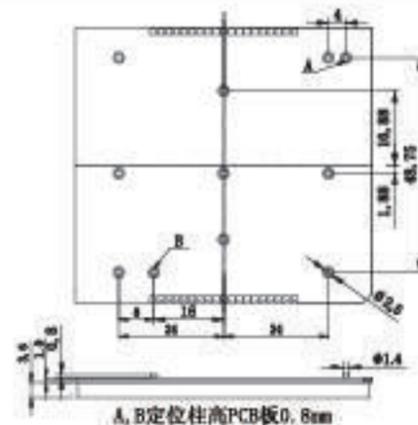
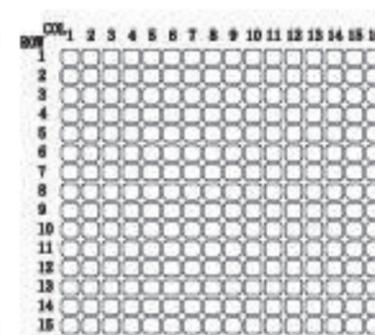
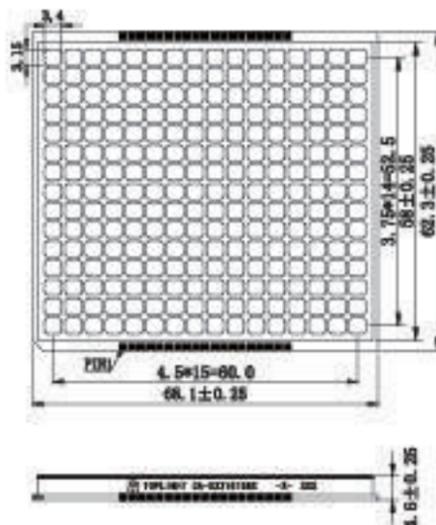
TOPLIGHT CC-331615AX



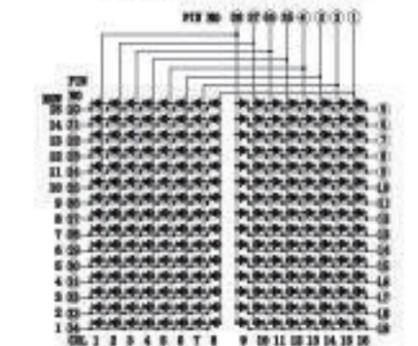
TOPLIGHT CA-331615BX



* TOPLIGHT CA-S331615BX



TOPLIGHT CA-S331615BX



点阵模块 F-7-1-02-A
Dot matrix Display

LED Lamps LED 发光二极管

主要应用于仪器仪表、家用电器、LED灯具等产品。

For instrument and metre, household appliance, LED fixtures.



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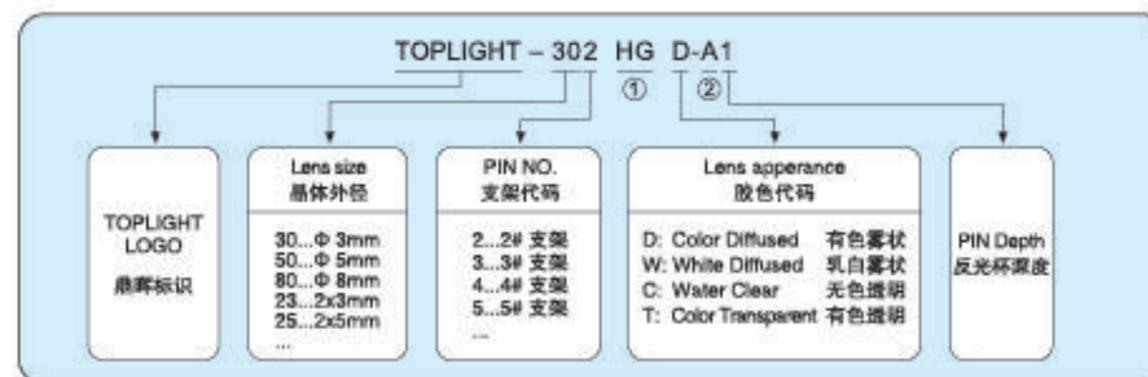
LED Lamps

LED 发光二极管



Product Model Specification For LED Lamps Display

发光二极管命名规则



① color code 颜色代码

颜色	颜色代码	λ_p (nm)	V_f (v)	$2\theta^{(deg)}$
标准红 Red	SA	635-650	1.7-2.2	10-120
高光红 HI-Red	SR	620-630	1.8-2.4	10-120
标准橙 Orange	HA	600-610	1.8-2.4	10-120
高光橙 HI-Orange	SxAx	600-610	1.8-2.4	10-120
高光黄 HI-Yellow	SY	585-595	1.8-2.4	10-120
高光黄绿 HI-Yellow Green	HG	568-575	1.9-2.5	10-120
超光亮黄绿 Ultra Yellow Green	SYG	568-575	1.9-2.5	10-120
高光纯绿 HI-Green	SG	520-530	2.8-3.5	10-120
超光亮纯绿 Ultra Green	UG	520-530	2.8-3.5	10-120
高光蓝 HI-Blue	HB	455-465	2.8-3.5	10-120
超光亮蓝 Super Blue	SB	455-465	2.8-3.5	10-120
高光白 HI-White	SW	-	2.8-3.5	10-120
超光亮白 Super White	UW	-	2.8-3.5	10-120

② Lens shape 模粒外形 (A为规格品时免标法)

A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T

APPLICATION 应用

SMD LED 贴片式LED

主要应用于各类LED组合照明及指示。
For all LED lighting and indicating products.



>>> www.ledtoplight.net www.ledtoplight.com.cn

SMD LED

贴片式LED



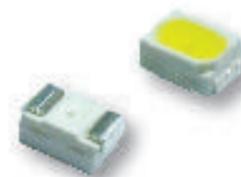
3014



3528



0805



3020

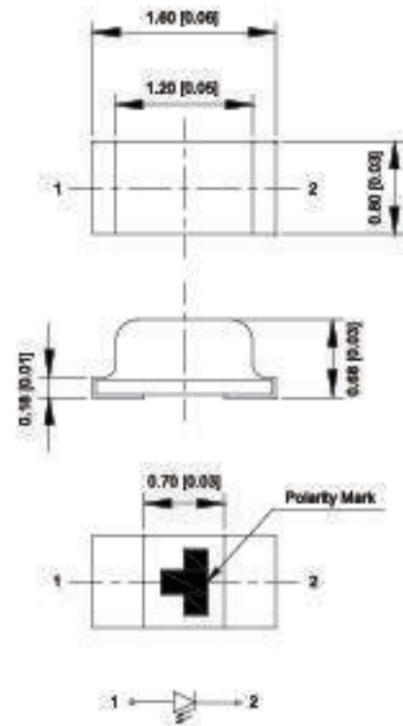


5050

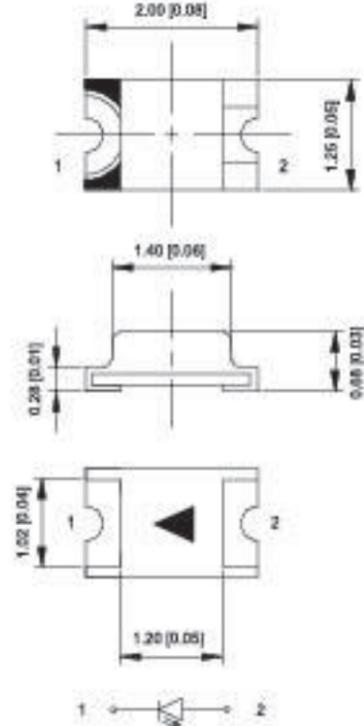


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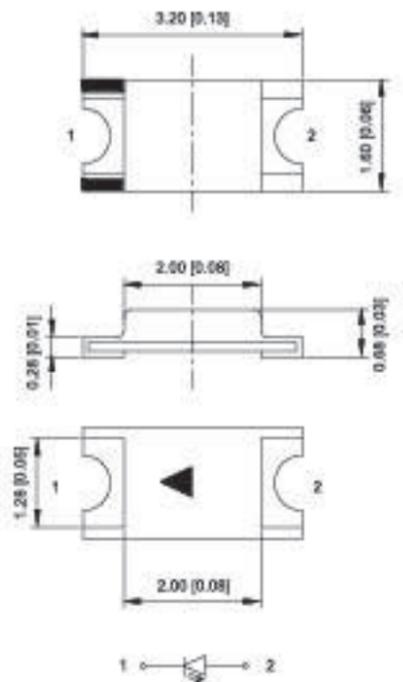
TOPLIGHT 0603XXX



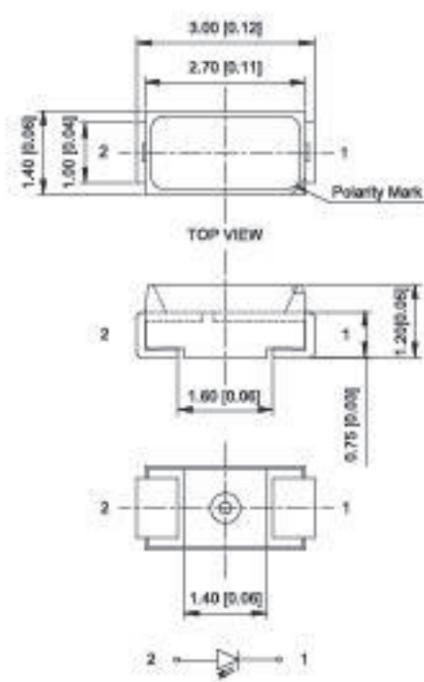
TOPLIGHT 0805XXX



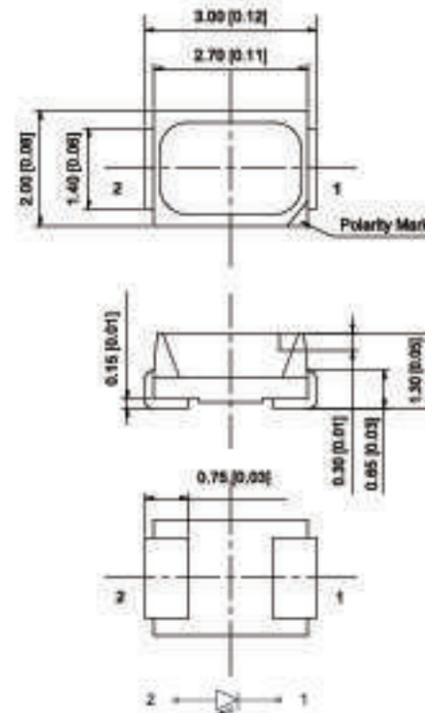
TOPLIGHT 1206XXX



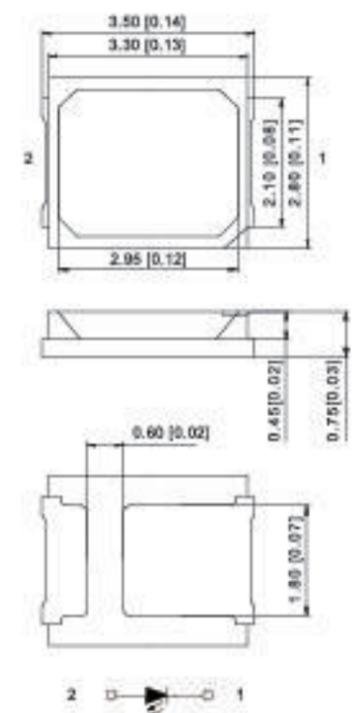
TOPLIGHT 3014XXX



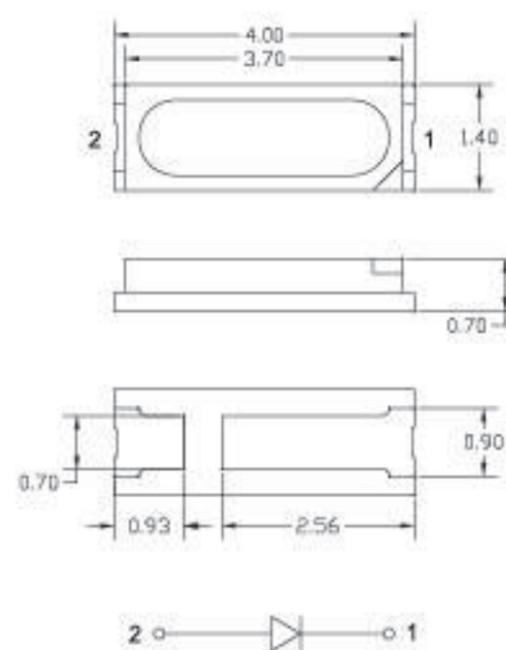
TOPLIGHT 3020XXX



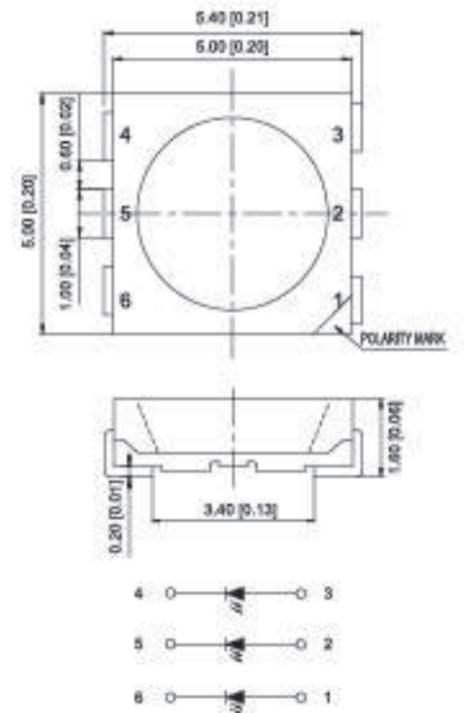
TOPLIGHT 2835XXX



TOPLIGHT 4014XXX



TOPLIGHT 5060XXX



LED Backlight LED 背光源

主要应用于LCD的背光及LED TV背光。

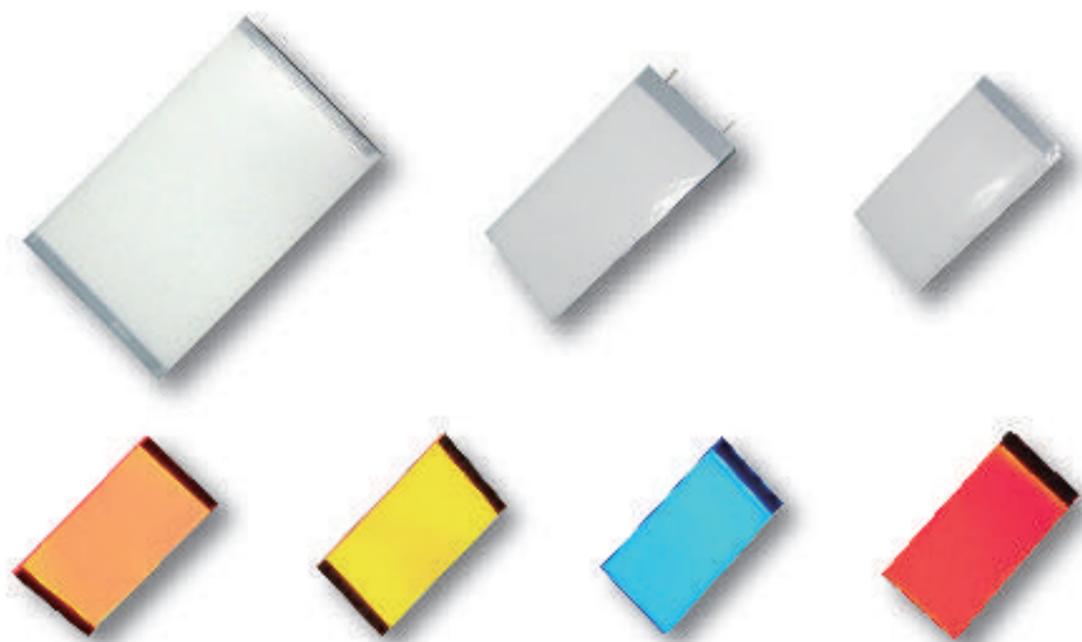
Backlight For LCD & TV.



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LED Backlight

LED 背光源



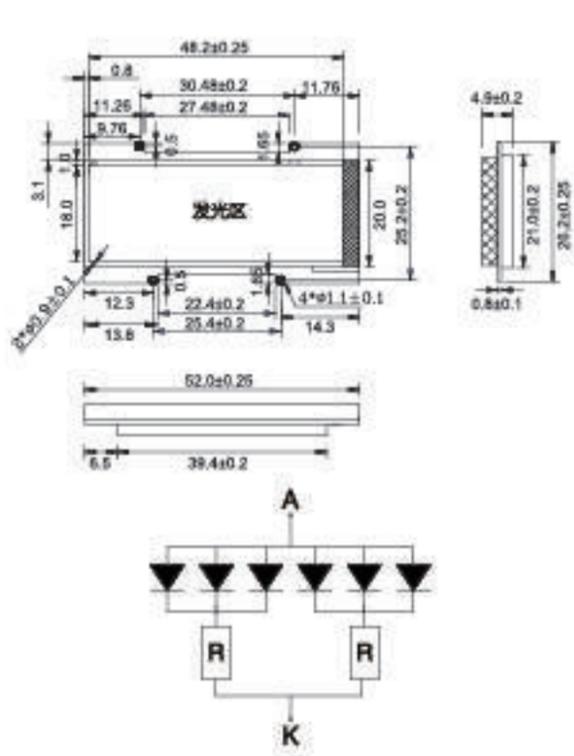
1. Technical parameters 背光源主要技术参数



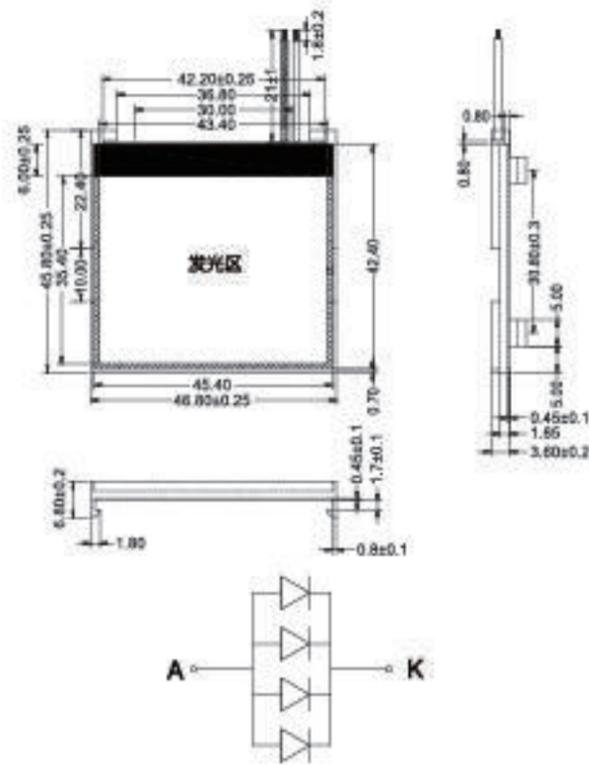
2. color code 颜色代码

颜色	颜色代码	λ_p (nm)	V_f (V)	I_f (mA)	L (cd/m ²)
红光 Red	UR	620-630	1.8-2.4	10	50-500
橙光 Orange	UA	600-610	1.8-2.4	10	50-500
黄光 Yellow	UY	585-595	1.8-2.4	10	100-1000
绿光 Green	UG	520-530	2.8-3.5	10	50-500
蓝光 Blue	UB	455-465	2.8-3.5	10	10-500
白光 White	UW	-	2.8-3.5	10	100-1000

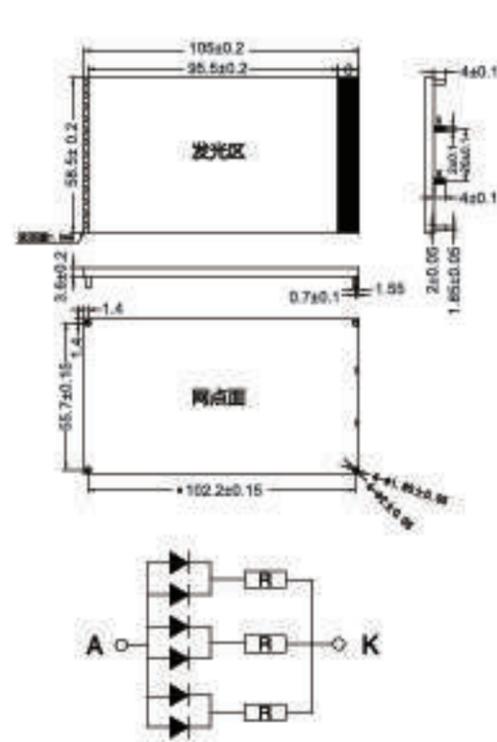
TOPLIGHT 316XXX



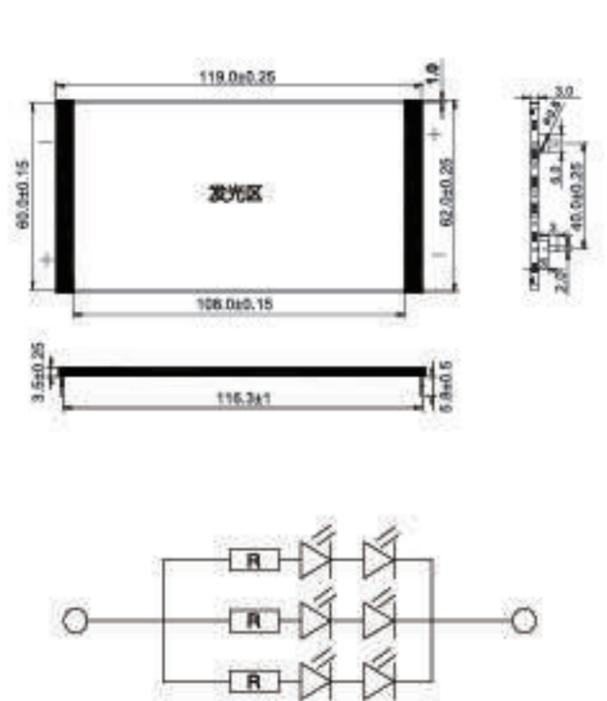
TOPLIGHT 4546XXX



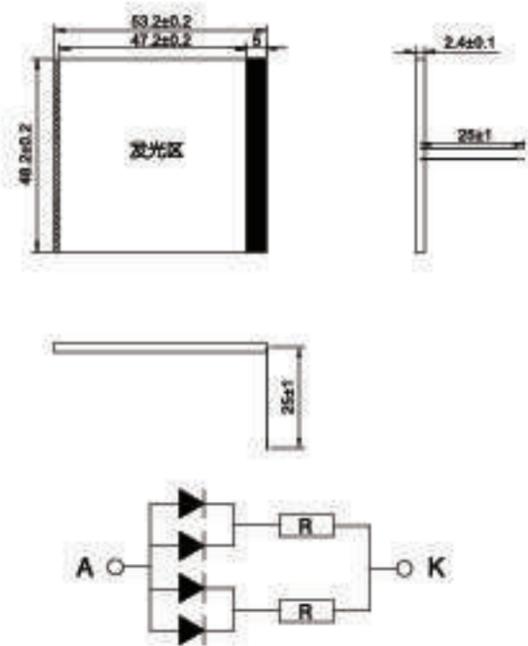
TOPLIGHT 59105XXX



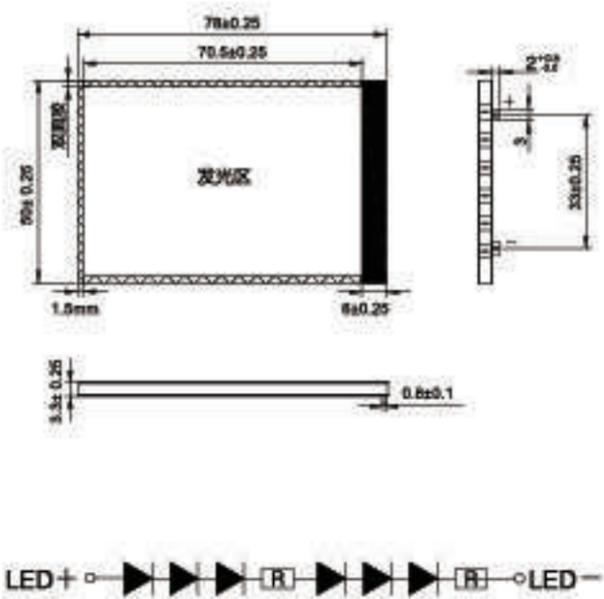
TOPLIGHT 62119XXX



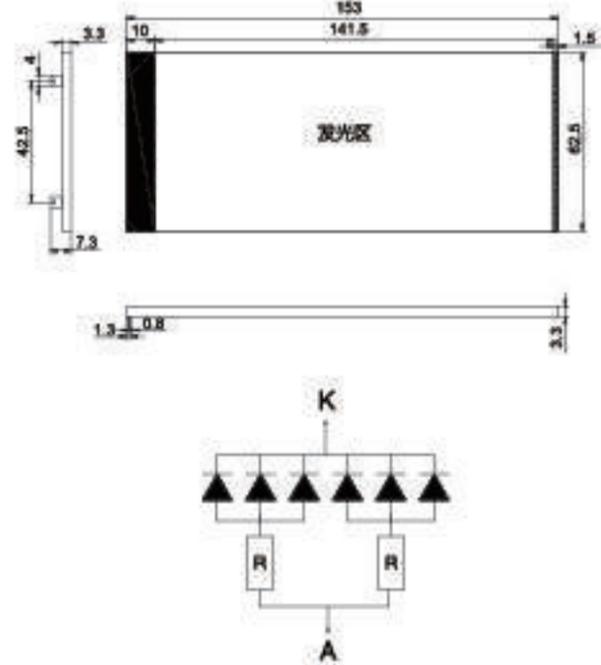
TOPLIGHT 5348XXX



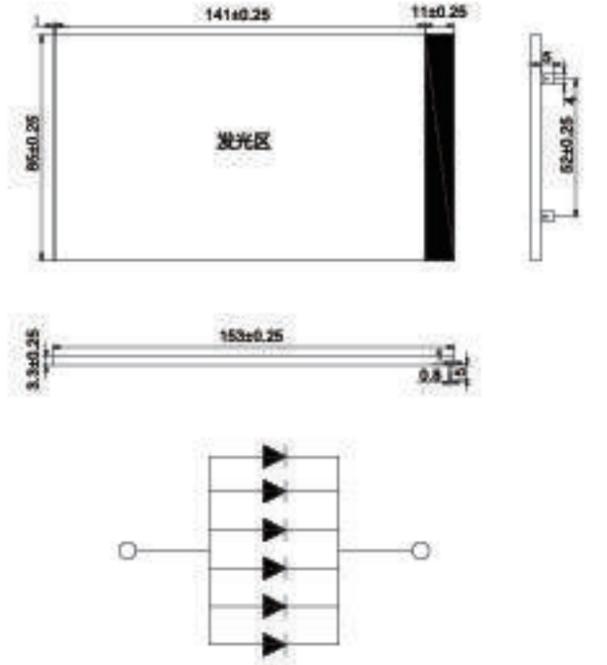
TOPLIGHT 5078XXX



TOPLIGHT 63153XXX

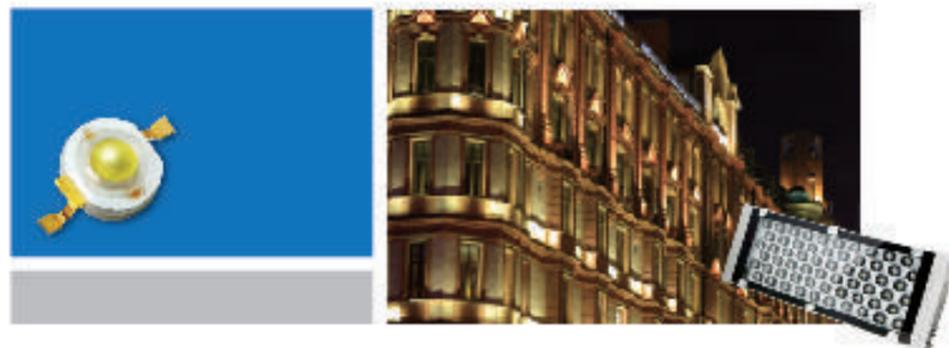


TOPLIGHT 85153XXX



High Power LED Lamp 独立型大功率LED零件

主要应用于各种LED照明灯具，如路灯、室内照明灯、投光灯、洗墙灯等。
For LED street light, residential lamp, spot light, wash wall light.



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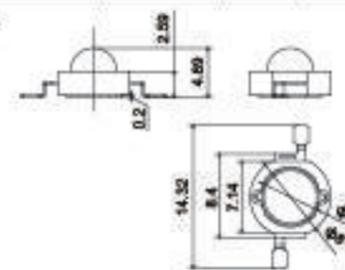
独立型大功率LED零件

High Power LED Lamp

TOP-HR511系列

CCT	Luminous Flux Typ.	Luminous Efficacy Typ.	Angle of View Deg	Forward Current mA	Ta=25°C Ra
UNIT	lm	lm/W			
2700K	108	95	60~175	350	80 min
3000K	118	105			
5000K	128	115			
6500K	138	123			

尺寸图(mm):



TOP-HR511W



TOP-HR511W(175°)



TOP-HR511R(For Red)



TOP-HR511B(For Blue)



TOP-HR511G(For Green)



TOP-7825



TOP-HR511W-2A



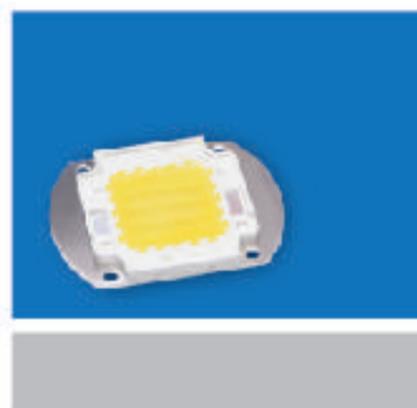
TOP-HR511W-5B

APPLICATION 应用

COB LED Module COB LED 模组

主要应用于各种室内外LED照明灯具。

COB Module For Lighting.

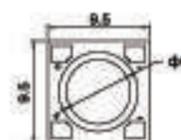


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COB LED 模组

COB LED Module

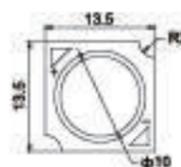
TE-R6



PART NO.	CCT	Length of side mm	Window size mm	Luminous Typ. lm	Luminous Efficacy		Ra	Forward Voltage V	Forward Current mA	Power W	Other Power W
	UNIT				Min.	Max.					
TE-R6	3000K	8.5*8.5	Φ 6	294	90	125	≥80 min	DC 9.2	300	avg. 2.8	5.0
	5000K				95	135					

Ta=25°C

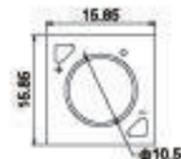
TE-R10



PART NO.	CCT	Length of side mm	Window size mm	Luminous Typ. lm	Luminous Efficacy		Ra	Forward Voltage V	Forward Current mA	Power W	Other Power W
	UNIT				Min.	Max.					
TE-R10	3000K	13.5*13.5	Φ 10	692	90	125	≥60 min	DC 36.6	180	avg. 6.5	
	5000K				95	135					

Ta=25°C

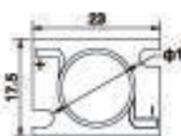
TE-R11



PART NO.	CCT	Length of side mm	Window size mm	Luminous Typ. lm	Luminous Efficacy		Ra	Forward Voltage V	Forward Current mA	Power W	Other Power W
	UNIT				Min.	Max.					
TE-R11	3000K	15.85*15.85	Φ 10.5	525	90	125	≥80 min	DC 31	240	avg. 5.0	3/7
	5000K				95	135					

Ta=25°C

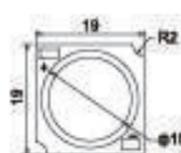
TE-R14



PART NO.	CCT	Length of side mm	Window size mm	Luminous Typ. lm	Luminous Efficacy		Ra	Forward Voltage V	Forward Current mA	Power W	Other Power W
	UNIT				Min.	Max.					
TE-R14	3000K	23*17.5	Φ 14	1365	90	125	≥80 min	DC 18.6	720	avg.13.0	24.0
	5000K				95	135					

Ta=25°C

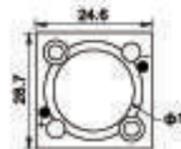
TE-R15



PART NO.	CCT	Length of side mm	Window size mm	Luminous Typ. lm	Luminous Efficacy		Ra	Forward Voltage V	Forward Current mA	Power W	Other Power W
	UNIT				Min.	Max.					
TE-R15	3000K	19*19	Φ 15.5	1838	90	125	≥80 min	DC 36.6	480	avg.17.5	24.0
	5000K				95	135					

Ta=25°C

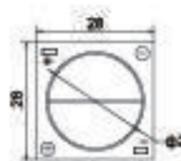
TE-R18



PART NO.	CCT	Length of side mm	Window size mm	Luminous Typ. lm	Luminous Efficacy		Ra	Forward Voltage V	Forward Current mA	Power W	Other Power W
	UNIT				Min.	Max.					
TE-R18	3000K	24.6*28.7	Φ 18	682	90	125	≥80 min	DC 21.7	300	avg. 6.5	25.0
	5000K				95	135					

Ta=25°C

TE-R23



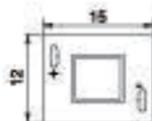
PART NO.	CCT	Length of side mm	Window size mm	Luminous Typ. lm	Luminous Efficacy		Ra	Forward Voltage V	Forward Current mA	Power W	Other Power W
	UNIT				Min.	Max.					
TE-R23	3000K	28*28	Φ 23	4200	90	125	≥80 min	DC 36.6	1080	avg. 40.0	
	5000K				95	135					

Ta=25°C

COB LED 模组

COB LED Module

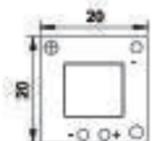
TE-0808



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TE-0808	3000K	15*12	8*8	800	90	125	≥80 min	DC 27	210	avg. 6.7
	5000K				95	135				

Ta=25°C

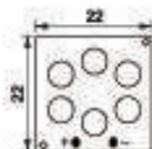
TE-1010



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TE-1010	3000K	20*20	10*10	682	90	125	≥80 min	DC 21.7	300	avg. 6.5
	5000K				95	135				

Ta=25°C

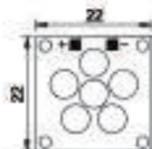
TD-6



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TD-6	3000K	22*22	Φ 5.4	682	90	125	≥80 min	DC 18.6	350	avg. 6.5
	5000K				95	135				

Ta=25°C

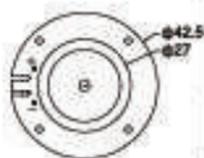
TD-5W1R



PART NO.	CCT	Length of side	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT			mm	lm				
TD-5W1R	3000K	22*22	682	90	125	≥80 min	DC 18.6	350	avg. 6.5
	5000K			95	135				

Ta=25°C

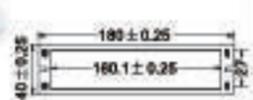
TR-R27



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TR-R27	3000K	Φ 42.5	Φ 27	400	90	125	≥80 min	DC 186	20	avg. 3.8
	5000K				95	135				

Ta=25°C

TL-B160



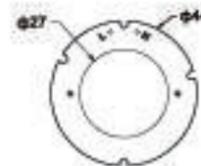
PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TL-B160	3000K	180*40	160*27	2000	100	115	≥80 min	DC 30	580	avg. 20.0
	5000K				110	125				

Ta=25°C

COB LED 模组

COB LED Module

TS-AR30



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TS-AR30	3000K	Φ 44.5	Φ 27	484	80	110	≥80 min	AC 220	20	avg. 4.4
	5000K				80	120				

Ta=25°C

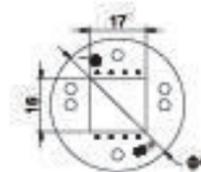
TS-R30



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TS-R30	3000K	Φ 44.5	Φ 27	400	80	125	≥80 min	DC 140	31	avg. 3.8
	5000K				95	135				

Ta=25°C

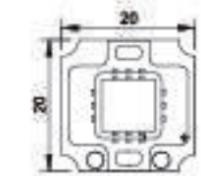
TS-R40-5W



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TS-R40-5W	3000K	Φ 40	17*16	472	90	125	≥80 min	DC 15	300	avg. 4.5
	5000K				95	135				

Ta=25°C

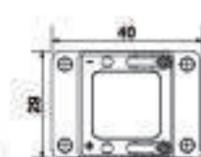
TP-1010



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TP-1010	3000K	20*20	10*10	1155	90	125	≥80 min	DC 15.5	700	avg. 11.0
	5000K				95	135				

Ta=25°C

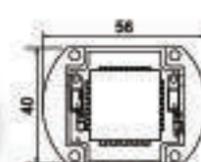
TP-1818



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power	Other Power
	UNIT				mm	mm					
TP-1818	3000K	40*29	18*18	3465	90	125	≥80min	DC 31	1050	avg. 33.0	50.0
	5000K				95	135					

Ta=25°C

TP-2424



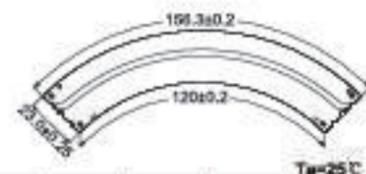
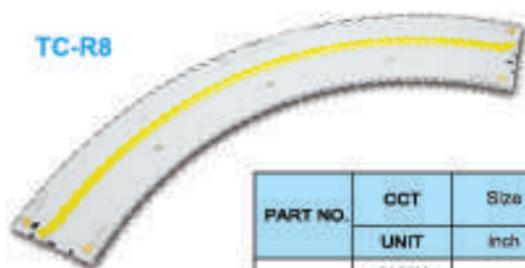
PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power	Other Power
	UNIT				mm	mm					
TP-2424	3000K	56*40	24*24	6825	90	125	≥80min	DC 31	2100	avg. 65.0	100.0
	5000K				95	135					

Ta=25°C

COB LED 模组

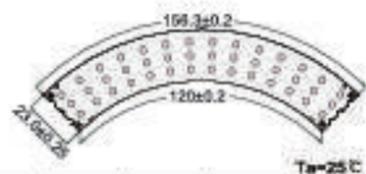
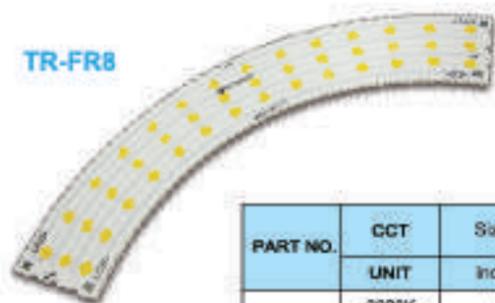
COB LED Module

TC-R8



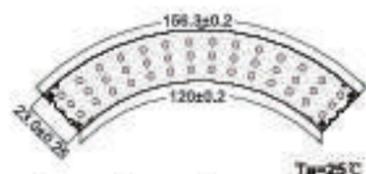
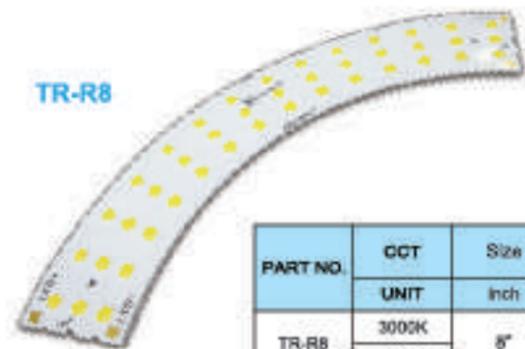
PART NO.	CCT	Size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT			Min.	Max.				
TC-R8	3000K	8"	230	90	125	≥80 min	DC 110	20	avg. 2.2
	5000K			95	135				

TR-FR8



PART NO.	CCT	Size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT			Min.	Max.				
TR-FR8	3000K	8"	275	90	125	≥80 min	DC 130	20	avg. 2.6
	5000K			95	135				

TR-R8

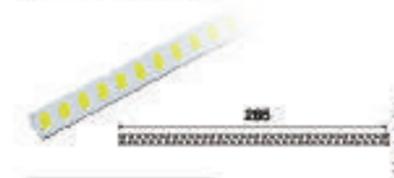


PART NO.	CCT	Size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT			Min.	Max.				
TR-R8	3000K	8"	275	90	125	≥80 min	DC 9	280	avg. 2.6
	5000K			95	135				

COB LED 模组

COB LED Module

(AL PCB) TL-S72



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TL-S72	3000K	285*12.5	Φ9*5	420	90	100	80 min	DC 27.9	160	avg. 4.5
	5000K			450	95	105				

(AL PCB) TL-Z72



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TL-Z72	3000K	268*12.5	Φ3.2	400	80	90	80 min	DC 27.9	160	avg. 4.5
	5000K			420	85	95				

(AL PCB) TL-S40



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TL-S40	3000K	300*8	Φ4.8	500	80	100	80 min	DC 21	320	avg. 6.7
	5000K			530	85	105				

(AL PCB) TL-B36



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TL-B36	3000K	285*8	Φ3.0	400	90	100	80 min	DC 54	80	avg. 4.3
	5000K			420	95	105				

(AL PCB) TL-J72



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TL-J72	3000K	268*12.5	Φ7.7*6.0	390	85	95	80 min	DC 27.9	160	avg. 4.5
	5000K			410	90	100				

(AL PCB) TL-O72



PART NO.	CCT	Length of side	Window size	Luminous Typ.	Luminous Efficacy		Ra	Forward Voltage	Forward Current	Power
	UNIT				mm	mm				
TL-O72	3000K	268*12.5	Φ8.2	380	85	95	80 min	DC 27.9	160	avg. 4.5
	5000K			400	90	100				

高压交流驱动 COB LED光源

High-voltage ac drive COB LED light

TR-AR38



特征(Characteristic):

- ★ 高可靠, 可调光, PF大于0.95。
High reliability, can adjust light PF>0.95.
- ★ 驱动简洁, 成本低, 可过UL、CE。
Easy drive cost is low, can used for UL、CE.

- 内置交直流转换, 可直接输入市电。
AC/DC inside conversion, could be input directly.
- 环形出光, 照度分布均匀。
Circle light-emitting, uniform illumination distribution.
- LED发热点分散, 横向散热显著。
LED heat spots dispersed, lateral heat dissipation characteristics remarkable.

Ta=25°C

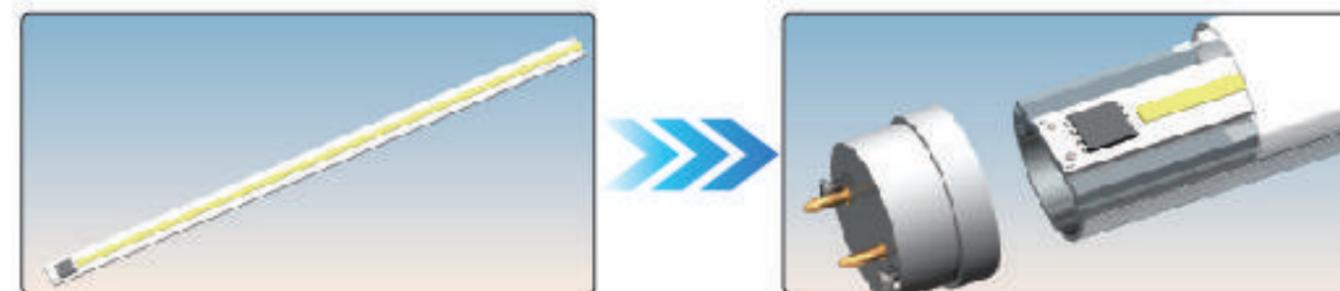
LED VIEW	PART NO.	CCT	Luminous Typ.	Luminous Efficacy Typ.		Input Voltage	Power	Power Max*	Replace Tungsten Bulb
		UNIT	lm	lm/W	lm/W				
	TR-AR38	3000K	848	108	125	AC 220	8.0	8.0	60W
		5000K	690	115	145				

高压交流驱动 COB LED光源

High-voltage ac drive COB LED light

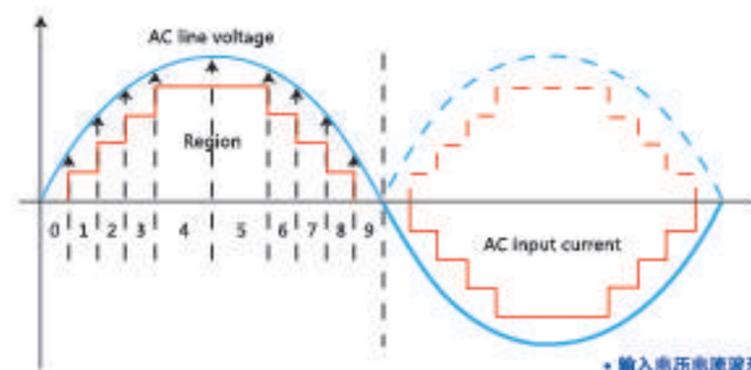
TL-AB44

NEW



特征(Characteristic):

- ★ 驱动简洁, 成本低, 可过UL、CE。
Easy drive cost is low, can pass UL、CE.
- ★ 线型发光, 发光角度大, 无点光源。
Linear light-emitting area, big beam angle, no point light source phenomenon.
- 内置交直流转换, 可直接输入市电。
AC/DC inside conversion, could be input directly.
- 高可靠, 可调光, PF大于0.95。
High reliable, can adjust light PF>0.95.
- 直接散热, 热阻低。
Heat radiation directly, structure thermal resistance.



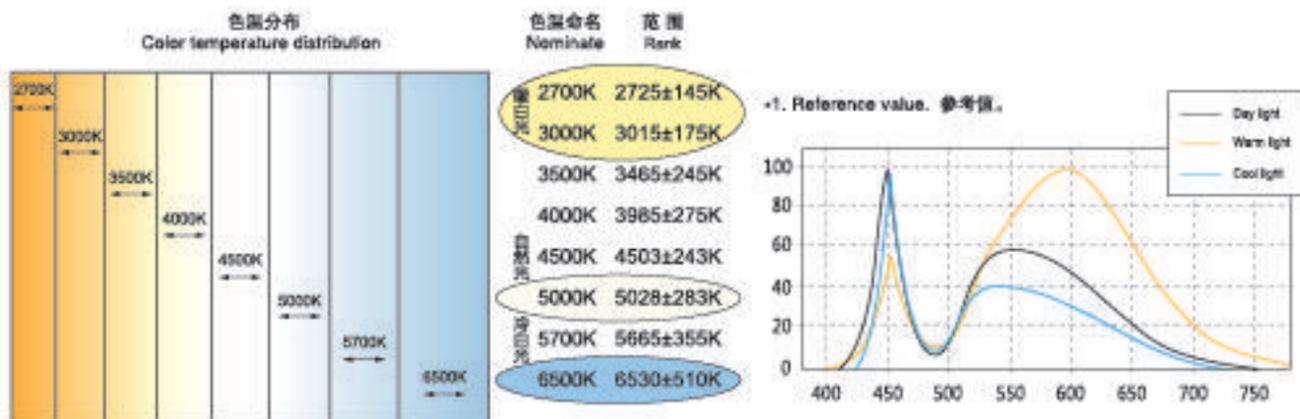
Ta=25°C

LED VIEW	PART NO.	CCT	Luminous Typ.		Luminous Efficacy Typ.		Input Voltage	Power	Power Max*
		UNIT	lm	lm	lm/W	lm/W			
	TL-AB44	3000K	462	525	110	125	AC 220	4.5	5.0
		5000K	504	610	120	145			

Color Rendering

显色性

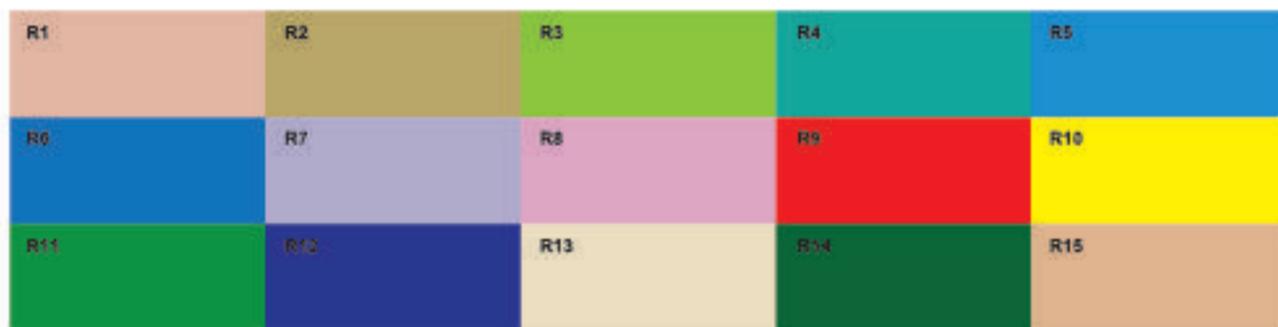
1. Chromaticity Diagram (色温图)



2. Ra Rank 显色性 (Ra)

Rank	Standard CRI(通常显色性)		Moderate CRI(中显色性)				High CRI(高显色性)	
	Non	Ra 70	Ra 75	Ra 80	Ra 85	Ra 90		
Color Rendering(Ra)	Min. Typ.	Min. Typ.	Min. Typ.	Min. Typ.	Min. Typ.	Min.	Min.	
R9	-	70	75	80	85	85		
Color Rendering Index	-	-	-	>0	-	-		

3. Color Sample for CRI (显色评价用色)



CHROMATICITY COORDINATES

— 色度坐标 —

