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国家科技部“十二五”支撑计划单位  
半导体照明联合创新国家重点实验室单位

# AUTOMOTIVE

## 车载照明产品目录



### 深圳万润科技股份有限公司(总部)

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传真: +86-755-33378925 邮箱: info@masonled.com

### 广东恒润光电有限公司 (生产基地A区/B区)

地址: 东莞市松山湖高新技术产业开发区工业西一路1号/二路2号  
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用 L E D 成 就 光 的 未 来



## ABOUT US 关于万润

深圳万润科技股份有限公司成立于2002年12月，2012年2月17日在深圳证券交易所挂牌上市。十多年来一直专注LED领域，公司基于自身的LED光源器件封装领域的技术、品质和规模优势，向LED应用照明产品自然延伸，彼此促进、协同发展，十年来形成LED产业链专业的配套优势。公司是国内领先的集研发、设计、生产和销售为一体的中、高端光源器件产品制造商，为客户提供高品质LED光源器件。

公司先后通过国家高新技术产品鉴定，中国节能产品认证，中国CQC、CCC认证，美国UL，以及欧盟CE、ROHS、SGS认证，并获得国家重点新产品证书，广东省高新技术产品证书，广东省名牌产品证书。

专业、高素质的营销团队，为客户提供360度全面的服务，提供量身定制的解决方案。售前人员技术培训，售中专业解答咨询，售后完善的服务。高品质的产品，高效率的出货，快捷的物流，完全解决客户的一切后顾之忧。

公司是国家高新技术企业，被国家发改委、工信部列入“电子信息产业振兴和技术改造项目2010年中央预算内投资计划”单位；是“深圳功率型LED封装及照明工程技术研究开发中心”承建单位；是国家科技部“十二五”科技支撑计划半导体照明产业技术创新战略联盟成员单位，参与2011年国家科技支撑计划项目课题研究。2013年被评为广东省LED行业综合实力十强，2014年被评为国家LED行业AA级诚信企业。

公司坚持自主创新，面向全球市场打造万润品牌，立志让中国LED半导体照明产业雄冠全球，实现万润人的产业报国之梦！

Shenzhen Mason Technologies Co., Ltd was established in Dec.2002 and was listed in Feb 17th.2012 by Shenzhen Stock Exchange During the last more than ten years, Mason have been focused on LED field and have advantages in LED component encapsulation skill, quality and scale compared with other company, and these help Mason to start the LED finish products' business, Mason have got a complete materials suppliers' chain after many years of effort and trying. The MASONLED, one of the leading dairy companies in the country which sets R&D、 design、 production and sales as one, has been focusing on middle and high level LED market, which can provide high quality LED components for our customers.

Mason have passed the national high and new technology product identification, and successively got CECF,CCC,UL,CE,ROHS,SGS, and also have gained national key new product certificate, Guangdong high-tech products certificate, Guangdong famous brand product certificate.

Mason's professional, high-quality marketing team provides our clients with comprehensive services and tailor-made solutions. Mason have all of the sales trained before selling, with special and experienced consultants and perfect after-sale service to make sure the high quality products, efficient delivery and transportation.

Mason Technology is National High Tech Enterprise. Some of our research projects are supported by National Development and Reform Commission (NDRC) and the Industry and Information Technology Ministry. We undertake the project of building R&D center to research and develop power LED encapsulation and lighting engineering technology'. We are a member of China Solid State Lighting Alliance supported by National Science & Technology Pillar Program during the Twelfth Five-year Plan Period. Mason was rated as one of Top Ten comprehensive strength L E D industry of Guangdong province in 2013. In 2014 Mason was named the national LED industry AA grade credit enterprise.

Mason adheres to independent innovation, and tries to create Mason brand to global market. We believe Mason will be a well-known LED brand all over the world in the near future!



**万润科技深圳研发生产大楼** 建筑面积: 60912.8 平方米  
The production research and development building of Shenzhen Mason Technologies Co., Ltd  
Construction area: 60912.8 Square meters

**万润科技深圳总部研发生产大楼 (在建)**  
The production research and development building of Shenzhen headquarters Mason Technologies Co., Ltd ( under construction )



**万润科技松山湖生产研发基地A区** 建筑面积: 46106 平方米  
LED照明研发与生产基地  
A area of Songshan lake production research and development base of Mason Technologies Co., Ltd  
Construction area: 46106 Square meters  
LED lighting production research and development base

**万润科技松山湖生产研发基地B区** 建筑面积: 50212 平方米  
LED元器件研发与生产基地  
B area of Songshan lake production research and development base of Mason Technologies Co., Ltd  
Construction area: 50212 Square meters  
LED components production research and development base

17年LED研发生产历史  
300人的工程研发技术团队  
380项LED行业专利  
约16万平米建筑厂房, 10万平米生产车间  
公司产品畅销海内外100多个国家和地区  
拥有遍布全国的售后服务网点

15 years history of LED research and development production  
300 people of engineering research and development technical team  
380 patents of the LED industry  
About 16 square meters building workshop, 10 square meters production workshop  
Company's products sell well in more than 100 countries and regions at home and abroad  
Have nationwide after-sales service network

## 专注LED 孜孜不倦 实至名归

Concentrate on LED tireless it

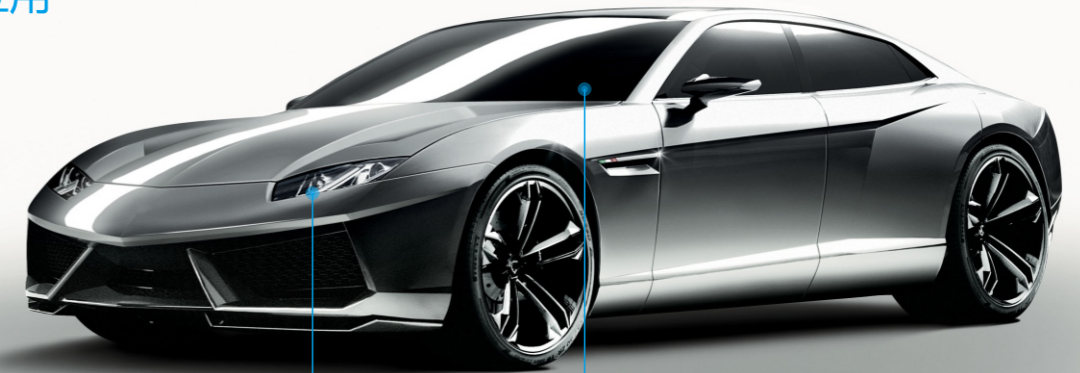
**国家科技部“十二五”支撑计划单位**  
The support unit of National ministry of science and technology program of "twelfth five-year"

**半导体照明联合创新国家重点实验室单位**  
The key laboratory units of state Semiconductor lighting joint innovation

**清华大学深圳研究生院产研基地**  
Tsinghua university The through train service enterprises of Shenzhen government

**深圳市政府直通车服务企业**  
The research production base of Shenzhen graduate school of

## 车载照明LED 产品应用



车载外部照明

车载内部照明

恒润光电 车载照明产品广泛应用于汽车各种照明设备上,产品亮度高,可靠性强,功耗低,反应迅速是LED用于车载照明的优点,产品通过了AEC-Q 102可靠性要求(高温高湿老化、高温长期老化、硫化实验、脉冲实验、电磁抗干扰实验等),车载LED产品适用于车头灯、远近灯、雾灯、汽车仪表灯,车内照明灯,耐用可靠,保证车载照明设备的安全。

Mason automotive lighting include exterior lighting and interior lighting.  
For exterior,Mason supplies comprehensive lighting components from DRL,Head light,Fog light to Rear tail light.  
For interior,Mason's high luminous flux,high luminous efficiency,low power consumption and rapidly response automotive LED packages.  
Mason's automotive lighting,no matter exterior lighting or interior lighting are all AEC-Q 102 qualified and able to offer reliable solutions for automotive usages.



- |  |  |  |
|--|--|--|
| <br>远光灯<br>Head Light | <br>近光灯<br>DRL              | <br>转向灯<br>Turn Indicator   |
| <br>雾灯<br>Fog Lamp    | <br>车门灯<br>Ambient Lighting | <br>仪表灯<br>Instrument Panel |
| <br>开关灯<br>Switch     | <br>显示屏灯<br>HUD             | <br>照明灯<br>Lighting         |



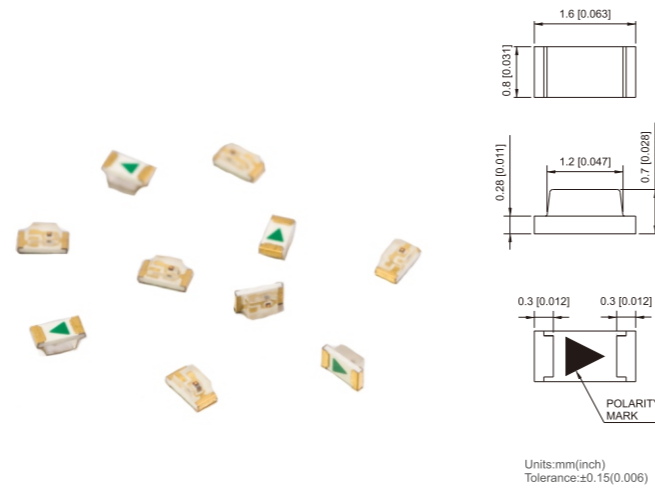
### MS-CPTV1608

#### 产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **背光与显示的最佳选择**  
Ideal For Backlight And Indicator.
- ★ **RoHS认证**  
RoHS Component.

#### 应用领域 Applications

- ★ **车门灯** Ambient Lighting
- ★ **仪表灯** Instrument Panel
- ★ **开关灯** Switch Light
- ★ **显示屏灯** HUD



#### 产品参数 Parameter

型号 Part Number	颜色 Color	波长/色坐标 λD(nm)/CIE(x,y)	亮度 IV(mcd)	发光角度 2θ 1/2(°)	电压 VF (V)	电流 IF(mA)	功率 Power(mW)
MS-CPTV1608CRC	●	617-629	130-385	120	1.8-2.2	20	40
MS-CPTV1608CEC	●	601-613	100-295	120	1.8-2.2	20	40
MS-CPTV1608CYC	●	586-596	100-295	120	1.8-2.2	20	40
MS-CPTV1608ZGAC	●	518-530	845-1300	120	2.8-3.2	20	60
MS-CXPTV1608SBKC	●	464-473	130-385	120	2.8-3.2	20	60
MS-CXPTV1608NWAZF-A01-5MAV	●	0.27,0.27	170-385	120	2.8-3.2	5	15
MS-CXPTV1608NWAZF-B01-5MAV	●	0.29,0.31	170-385	120	2.8-3.2	5	15

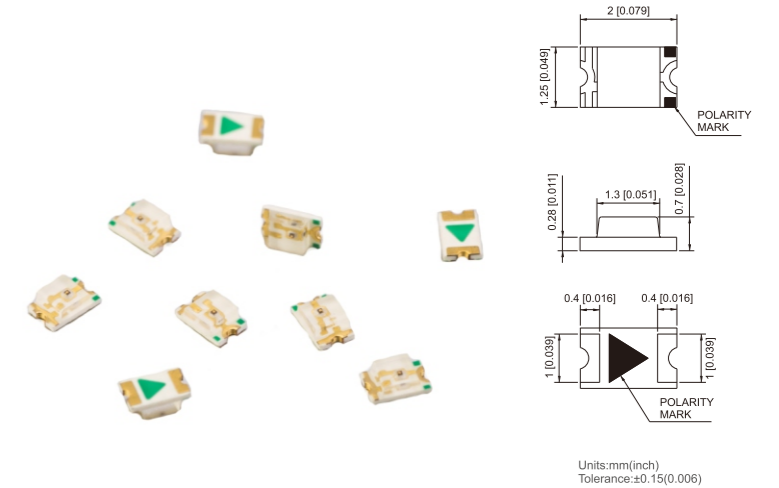
### MS-CPT2012

#### 产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **背光与显示的最佳选择**  
Ideal For Backlight And Indicator.
- ★ **RoHS认证**  
RoHS Component.

#### 应用领域 Applications

- ★ **车门灯** Ambient Lighting
- ★ **仪表灯** Instrument Panel
- ★ **开关灯** Switch Light
- ★ **显示屏灯** HUD



#### 产品参数 Parameter

型号 Part Number	颜色 Color	波长/色坐标 λD(nm)/CIE(x,y)	亮度 IV(mcd)	发光角度 2θ 1/2(°)	电压 VF (V)	电流 IF(mA)	功率 Power (mW)
MS-CPT2012CRC	●	617-629	130-385	120	1.8-2.2	20	40
MS-CPT2012CEC	●	601-613	100-295	120	1.8-2.2	20	40
MS-CPT2012CYC	●	586-596	100-295	120	1.8-2.2	20	40
MS-CPT2012ZGAC	●	518-530	845-1300	120	2.8-3.2	20	60
MS-CXPT2012SBKC	●	464-473	130-385	120	2.8-3.2	20	60
MS-CPT2012URC-H	●	617-630	500-845	120	1.8-2.2	20	40
MS-CPT2012SEC-H	●	601-613	500-1400	120	1.8-2.2	20	40
MS-CPT2012SYC-H	●	586-596	385-845	120	1.8-2.2	20	40
MS-CXPT2012NWAZF-A01-5MAV	●	0.27,0.27	170-385	120	2.8-3.2	5	60
MS-CXPT2012NWAZF-B01-5MAV	●	0.29,0.31	170-385	120	2.8-3.2	5	60
MS-CXPT2012NWAZF-C01-5MAV	●	0.32,0.35	170-385	120	2.8-3.2	5	60



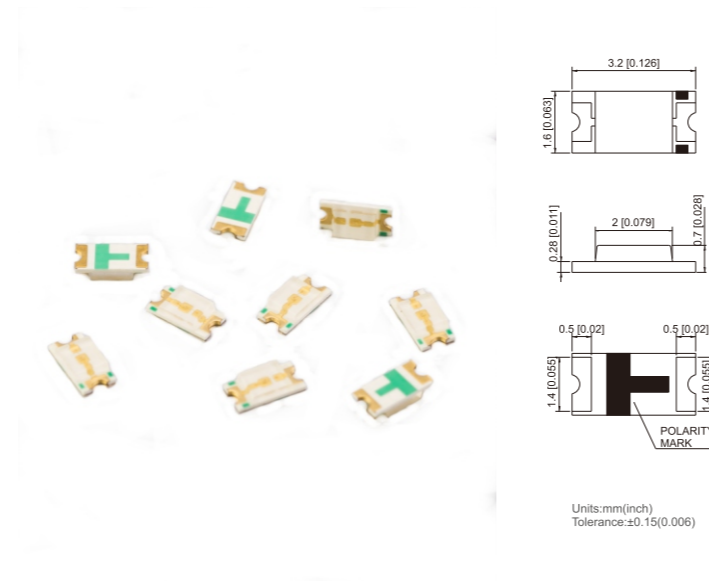
### MS-CPT3216

#### 产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **背光与显示的最佳选择**  
Ideal For Backlight And Indicator.
- ★ **RoHS认证**  
RoHS Component.

#### 应用领域 Applications

- ★ **车门灯** Ambient Lighting
- ★ **仪表灯** Instrument Panel
- ★ **开关灯** Switch Light
- ★ **显示屏灯** HUD



#### 产品参数 Parameter

型号 Part Number	颜色 Color	波长/色坐标 λD(nm)/CIE(x,y)	亮度 IV(mcd)	发光角度 2θ 1/2(°)	电压 VF (V)	电流 IF(mA)	功率 Power (mW)
MS-CPT3216CRC	●	617-629	175-385	120	1.8-2.2	20	40
MS-CPT3216CEC	●	601-613	130-295	120	1.8-2.2	20	40
MS-CPT3216CYC	●	586-596	130-295	120	1.8-2.2	20	40
MS-CPT3216ZGAC	●	518-530	1100-1800	120	2.8-3.2	20	60
MS-CPT3216SBKC	●	464-473	130-295	120	2.8-3.2	20	60
MS-CPT3216URC-H	●	617-630	500-845	120	1.8-2.2	20	40
MS-CPT3216SEC-H	●	601-613	500-1400	120	1.8-2.2	20	40
MS-CPT3216SYC-H	●	586-596	500-1100	120	1.8-2.2	20	40
MS-CXPT3216NWAZF-A01-5MAV	●	0.27,0.27	225-500	120	2.8-3.2	5	15
MS-CXPT3216NWAZF-B01-5MAV	●	0.29,0.31	225-500	120	2.8-3.2	5	15
MS-CXPT3216NWAZF-C01-5MAV	●	0.32,0.35	225-500	120	2.8-3.2	5	15

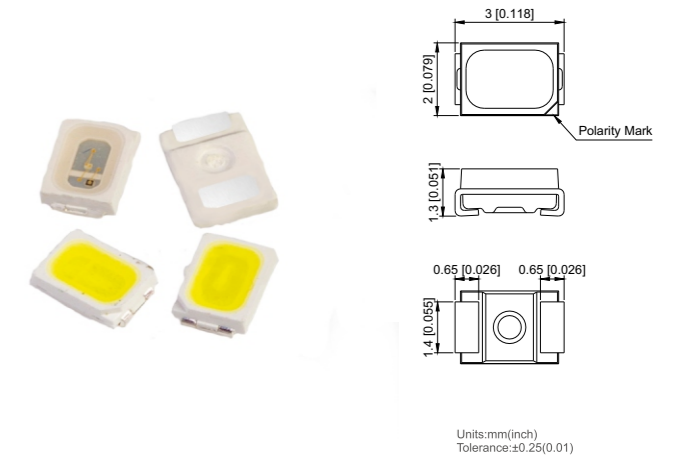
### MS-CA3020

#### 产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **背光与显示的最佳选择**  
Ideal For Backlight And Indicator.
- ★ **RoHS认证**  
RoHS Component.

#### 应用领域 Applications

- ★ **车门灯** Ambient Lighting
- ★ **仪表灯** Instrument Panel
- ★ **开关灯** Switch Light
- ★ **显示屏灯** HUD



#### 产品参数 Parameter

型号 Part Number	颜色 Color	波长/色坐标 λD(nm)/CIE(x,y)	亮度 IV(mcd)	发光角度 2θ 1/2(°)	电压 VF (V)	电流 IF(mA)	功率 Power (mW)
MS-CA3020URAC	●	617-629	225-500	120	1.8-2.2	20	40
MS-CA3020CYC	●	586-596	170-385	120	1.8-2.2	20	40
MS-CA3020ZYEC	●	586-596	845-1800	120	1.8-2.2	20	40
MS-CA3020ZGSC	●	518-530	1400-2900	120	2.8-3.2	20	60
MS-CA3020SBKZC	●	464-473	295-650	120	2.8-3.2	20	60
MS-CA3020NWAZF-A01	●	0.26,0.26	1800-2400	120	2.8-3.2	20	60
MS-CA3020NWAZF-B02	●	0.27,0.28	2300-3000	120	2.8-3.2	20	60



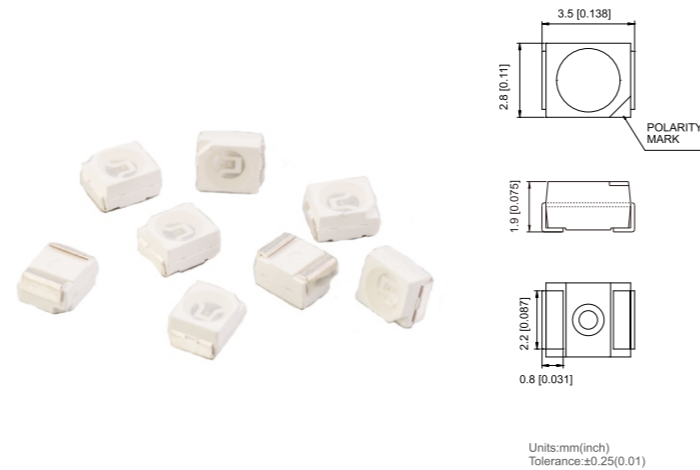
### MS-CA3528

#### 产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **背光与显示的最佳选择**  
Ideal For Backlight And Indicator.
- ★ **RoHS认证**  
RoHS Component.

#### 应用领域 Applications

- ★ **车门灯** Ambient Lighting
- ★ **仪表灯** Instrument Panel
- ★ **开关灯** Switch Light
- ★ **显示屏灯** HUD



#### 产品参数 Parameter

型号 Part Number	颜色 Color	波长/色坐标 λD(nm)/CIE(x,y)	亮度 IV(mcd)	发光角度 2θ 1/2(°)	电压 VF (V)	电流 IF(mA)	功率 Power (mW)
MS-CA3528ACRC	●	617-629	255-385	120	1.8-2.2	20	40
MS-CA3528ASEAC	●	601-613	295-500	120	1.8-2.2	20	40
MS-CA3528AZGSC	●	518-530	1400-2900	120	2.8-3.2	20	60
MS-CA3528ASBKC	●	464-473	295-650	120	2.8-3.2	20	60
MS-CA3528AURC-H	●	617-630	500-1100	120	1.8-2.2	20	40
MS-CA3528ASYC-H	●	586-596	650-1400	120	1.8-2.2	20	40
MS-CA3528AURAH-60MAV	●	617-630	2300-3500	120	1.8-2.2	60	120
MS-CA3528ANWAZF-A01-5MAV	●	0.26,0.26	500-1100	120	2.8-3.2	5	15
MS-CA3528ANWAZR-B02-5MAV	●	0.27,0.28	500-1100	120	2.8-3.2	5	15

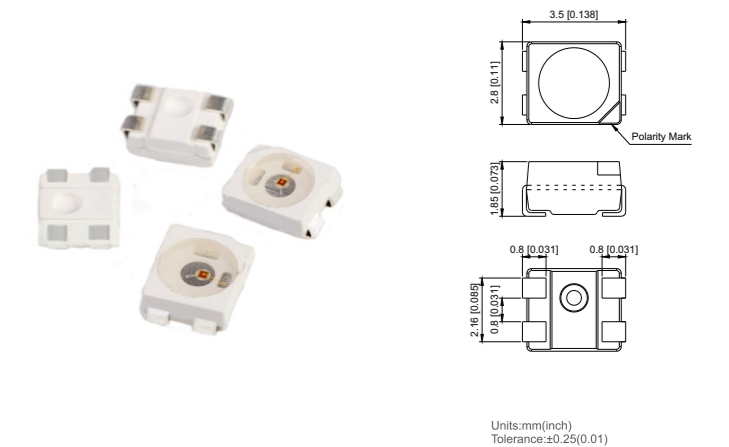
### MS-CH3528

#### 产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **背光与显示的最佳选择**  
Ideal For Backlight And Indicator.
- ★ **RoHS认证**  
RoHS Component.

#### 应用领域 Applications

- ★ **刹车灯** Stop Lamp
- ★ **转向灯** Turn Signal



#### 产品参数 Parameter

型号 Part Number	颜色 Color	波长/色坐标 λD(nm)/CIE(x,y)	亮度 IV(mcd)	发光角度 2θ 1/2(°)	电压 VF (V)	电流 IF(mA)	功率 Power (mW)
MS-CH3528URHC	●	617-630	500-1100	120	1.8-2.2	20	40
MS-CH3528URHC-60MAV	●	617-630	1500-3000	120	1.8-2.2	60	120
MS-CH3528SYAHC-60MAV	●	586-594	2000-2600	120	1.8-2.2	60	120



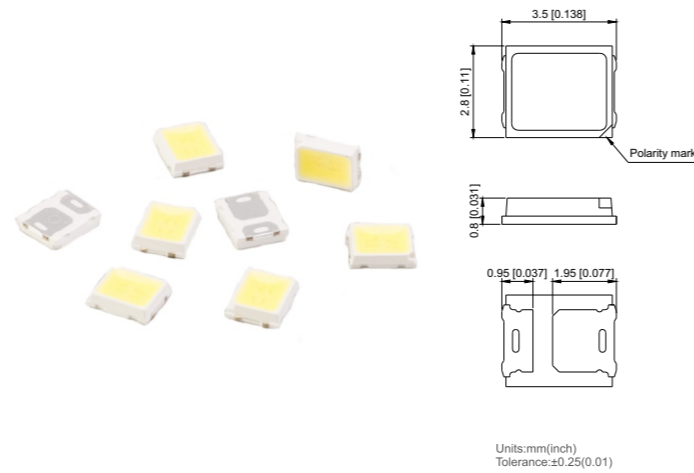
**MS-CA2836**

产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **高可靠性**  
High Reliability.
- ★ **RoHS认证**  
RoHS Component.

应用领域 Applications

- ★ **转向灯** Turn Signal
- ★ **昼行灯** DRL
- ★ **倒车灯** Backup Light



产品参数 Parameter

型号 Part Number	颜色 Color	色温 CCT (K)	流明 φ (lm)	发光角度 2θ1/2 (°)	电压 VF (V)	电流 IF (mA)	功率 Power (W)
MS-CA2836N414F	●	1700	50	120	2.8-3.2	150	0.5
MS-CA2836LWBR-M65	●	6500	24	120	2.8-3.2	60	0.2
MS-CA2836L41DF	●	1700	22	120	2.8-3.2	60	0.2
MS-CA2836URAHC	●	—	10	120	1.8-2.2	60	0.2
MS-CA2836SYAHC	●	—	8	120	1.8-2.2	60	0.2

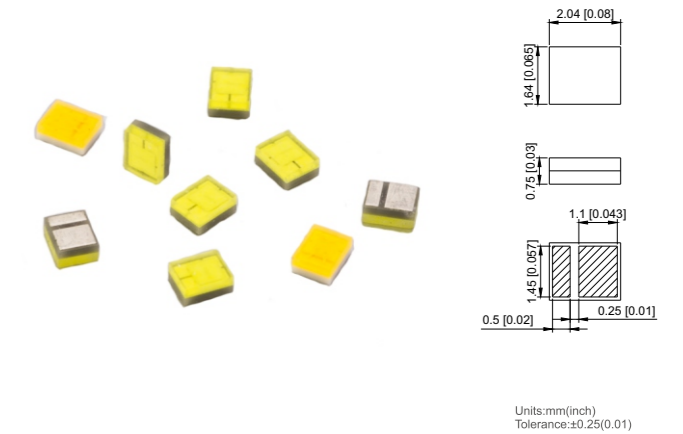
**MS-CD2016**

产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **高可靠性**  
High Reliability.
- ★ **RoHS认证**  
RoHS Component.

应用领域 Applications

- ★ **转向灯** Turn Signal
- ★ **昼行灯** DRL
- ★ **倒车灯** Backup Light



产品参数 Parameter

型号 Part Number	色温 CCT (K)	流明 φ (lm)	发光角度 2θ1/2 (°)	电压 VF (V)	电流 IF (mA)	最大电流 IF max (mA)	功率 Power (W)
MS-CD2016XW1C-SC91	6000-7000	140	120	3.4	350	1000	3
MS-CD2016XW1C-SF02	2800-3200	110	120	3.4	350	1000	3





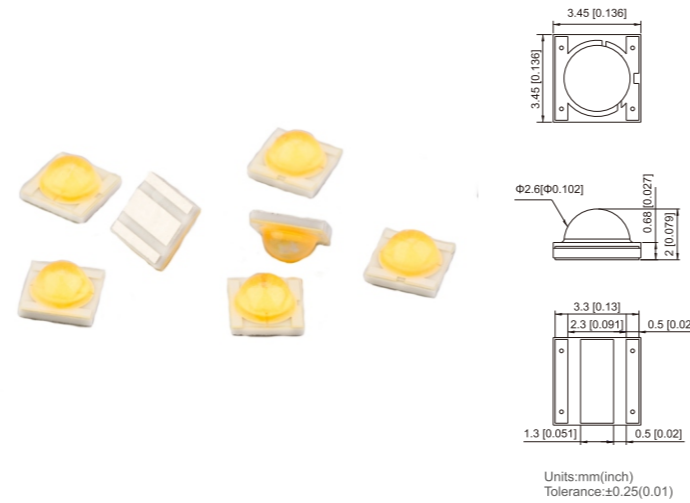
### MS-CD3535

#### 产品特点 Features

- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低功耗**  
Low Power Consumption.
- ★ **高可靠性**  
High Reliability.
- ★ **RoHS认证**  
RoHS Component.

#### 应用领域 Applications

- ★ **转向灯** Turn Signal
- ★ **昼行灯** DRL
- ★ **倒车灯** Backup Light



#### 产品参数 Parameter

型号 Part Number	色温 CCT (K)	流明 φ (lm)	发光角度 2θ1/2 (°)	电压 VF (V)	电流 IF (mA)	最大电流 IF max (mA)	功率 Power (W)
MS-CD3535XW1C-SC91	6000-7000	140	120	3.4	350	1000	3
MS-CD3535XW1C-SF02	2800-3200	110	120	3.4	350	1000	3

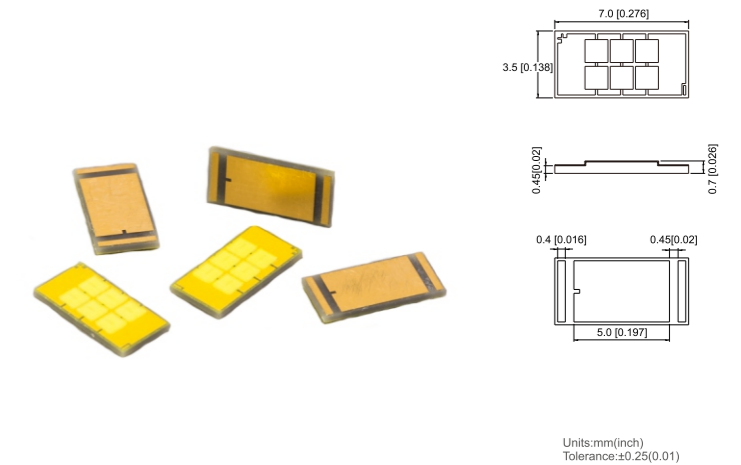
### MS-CD7035

#### 产品特点 Features

- ★ **高亮度**  
High Luminous.
- ★ **宽视角**  
Wide Viewing Angle.
- ★ **低热阻**  
Low Thermal Resistance.
- ★ **高可靠性**  
High Reliability.

#### 应用领域 Applications

- ★ **前大灯** Head Light



#### 产品参数 Parameter

型号 Part Number	颜色 Color	色温 CCT (K)	流明 φ (lm)	发光角度 2θ1/2 (°)	电压 VF (V)	电流 IF (mA)	最大电流 IFmax (mA)	功率 Power (W)
MS-D7035XW10302F-SC91	●	6000-7000	1350	120	9	1500	2000	13.5