



# 乐清市飞林贸易有限公司

Yueqing Feilin trading Co., Ltd

地址：乐清市柳市镇环城东路 721 号 3 楼

电话：0577-27878383-808

网址：[www.pilotlamp.cn](http://www.pilotlamp.cn)

传真：0577-27878383-808

## SPECIFICATION FOR APPROVAL

### 承 认 书

CUSTOMER'S CODE

客户代码：\_\_\_\_\_

DESCRIPTION

品 名：\_\_\_\_\_ 信号灯 (indicator light)

SPECIFICATION

规 格：\_\_\_\_\_ RED, GREEN, BLUE, YELLOW, WHITE

DATE

送样日期：\_\_\_\_\_

PART NO.

本厂型号：\_\_\_\_\_ FL1M-22CJ-1

REFERENCE No.

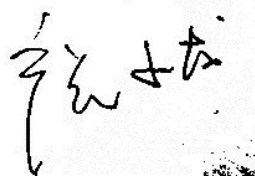

档案号：\_\_\_\_\_

NUMBER OF SAMPLE

送样数量 \_\_\_\_\_

COPY OF ACKNOWLEDGEMENT

承认书份数 \_\_\_\_\_

Approved By Customer 客户承认	Qualified By 核 准	Form Designer 制 作
		



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## 1. Description :

**-LED (A grade quality)**

**-Resistor**

**-2.8\*0.6mm terminal**

## 2. Picture:





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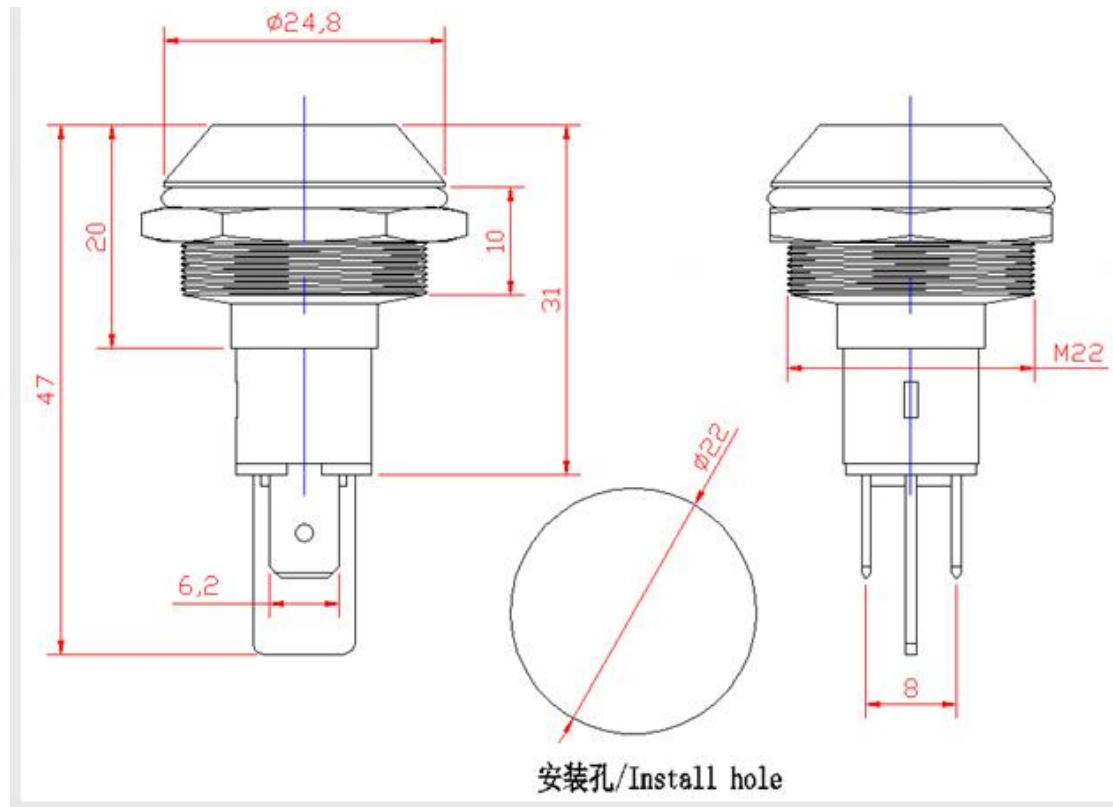
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### 3.Drawing:





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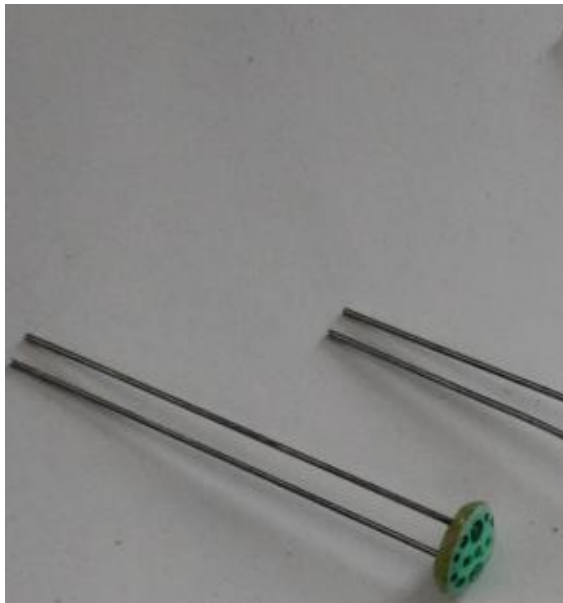
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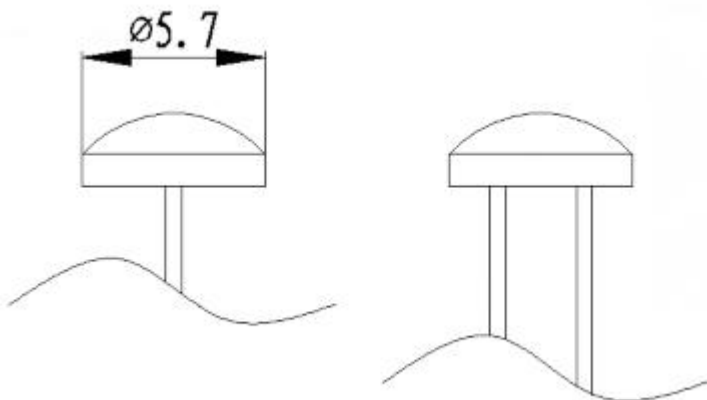
传真：0577-27878383-808

#### 4. Detailed Picture :

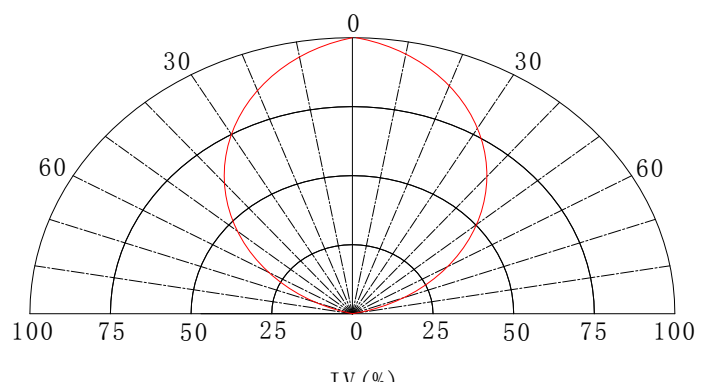


#### 5.LED Specification:

##### ■ Emitter 外型图



Spatial Distrbution





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## ■ Absolute Maximum Rating 极限工作参数

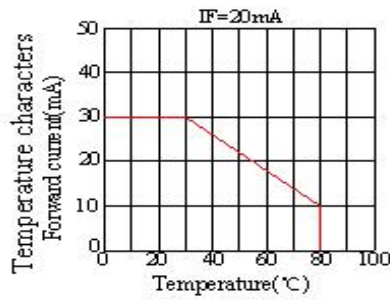
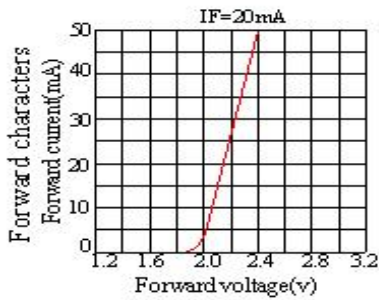
参数 Parameter	符号 Symbol	单位 Unit	极限参数 Maximum Rating
耗散功率 Power Dissipation	P	MW	60
连续正向电流 Continuous Forward Current	I <sub>F</sub>	MA	25
反向电压 Reverse Voltage	V <sub>R</sub>	V	5
工作温度范围 Operating Temperature Range	Top	°C	-25 to +80
存放温度范围 Storage Temperature Range	Tst	°C	-25 to +90
最高焊接温度 Soldering Temperature	Tso	°C	260 (for 5 second)

\*I<sub>fp</sub> Conditions: Pulse Wide ≤ 10msec ≤ 1/10

瞬间脉冲电流

\*T<sub>sol</sub> Conditions: 3mm from the base of epoxy bulb 最高焊接温度 距胶体 3mm

## Typical electrical-optical Characteristics curvers

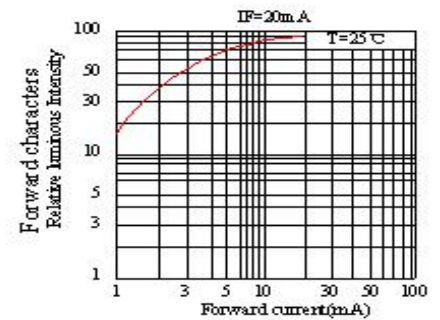
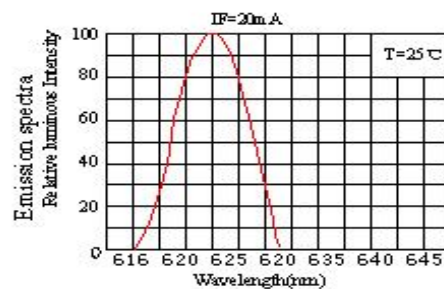
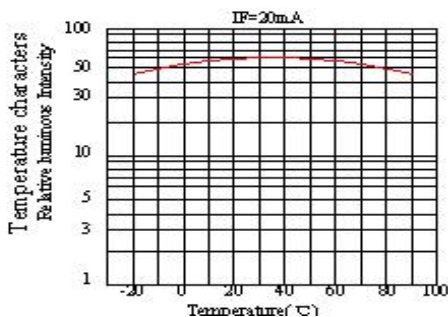


### Notes:

The data are an typical presentation of the product, Contact customer service for details of technical information and warranty.

The product is sensitive to static antistatic operation environment is recommended

Products are shipped in either bulk bag package or taping.





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## ■ Typical Optical/Electrical Characteristics 光电特性参数

Color parameters 色参数		Optical Brightness 光亮度	0.00 cd/m <sup>2</sup>
Main Wavelength 主波长	520.7.0 nm	light intensity 光强度	1000 mcd
Peak Wavelength 峰值波长	632.2 nm	luminous flux 光通量	4.8 lm
Peak width 峰值带宽	21.3 nm	luminous power 光功率	0.32 mW
colour coordinates xy 色坐标 xy	(.1404.7126)	luminous efficacy 发光效率	56.81 lm/W
colour coordinates u'v' 色坐标 u'v'	(.0498.5690)	forward current 正向电流	20.00 mA
colour purity 色纯度	0.758	alternating voltage 交流电压	4.22 V
Color temperature 色温	8400k	AC power 交流电功率	0.084 W

### Notes:

1. Work absolute ratings Ta=25°C humidity=60% 工作常规值 温度=25°C 湿度=60%
2. Tolerance of measurement of forward voltage±0.1V 正向电压误差范围±0.1V
3. Test Machine: SSP6612 series LED test system



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## LED LAMP RELIABILITY

Type	Test Item	REF. Standard	Test Condition	Note	Number of Damaged
Environmental Sequence	Temperature Cycle	JIS C 7021 (1997) A-4	-20°C → 25°C → 80°C → 25°C 30mins, 5mins, 30mins, 5mins	100 cycles	0/100
	High Humidity Heat Cycle	JIS C 7021 (1997) A-5	30°C → 65°C 90%RH 24hrs/1cycle	10 cycles	0/100
	High Temperature Storage	JIS C 7021 (1997) B-10	Ta=80°C	1000hrs	0/100
	Humidity Heat Storage	JIS C 7021 (1997) B-11	Ta=60°C RH=90%	1000hrs	0/100
	Low Temperature Storage	JIS C 7021 (1997) B-12	Ta= -30°C	1000hrs	0/100
Operation Sequence	Life Test	JIS C 7035 (1985)	Ta=25°C If=20mA	1000hrs	0/100
	High Humidity Heat Life Test	*	60°C RH=90% If=20mA	500hrs	0/100
	Low Temperature Life test	*	Ta= -20°C If=20mA	1000hrs	0/100
Destructive Sequence	Resistance to Soldering Heat	JIS C 7021 (1997) A-11	Tsol=260 ± 5°C, 10sec (3mm from the base of the epoxy bulb)	1 time	0/20
	Solder ability	JIS C 7021 (1997) A-2	Tsol=235 ± 5°C, 5sec (Using flux)	1 time (over 95%)	0/20
	Lead Pull/Bend Test	JIS C 7021 (1997)A-11	Load 2.5N (0.25kgf) 0° → 90° → 0° Bending 3 times	No noticeable damage	0/20

### ● Test Items And Results

\* Refer to reliability test standard specification for in this line.

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	---	Initial data x 1.1
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5V	---	Initial data x 2.0
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20mA	Initial data x 0.7	---

### ● Criteria for Judging The Damage



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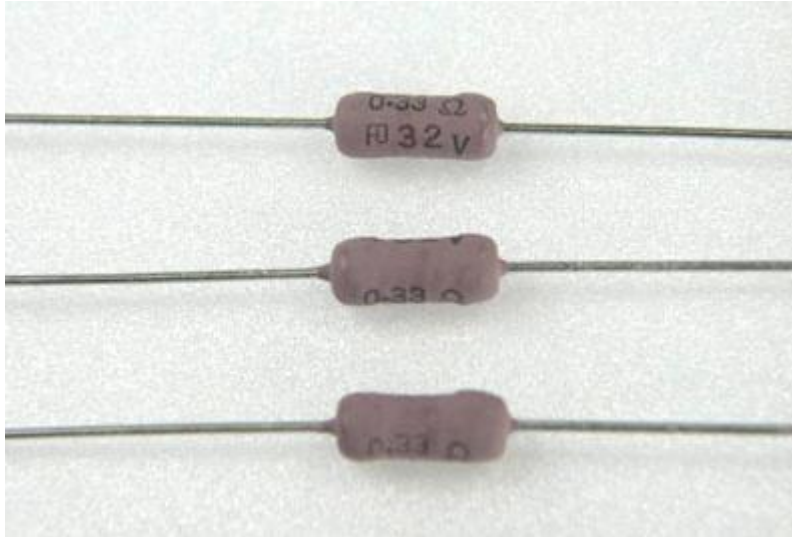
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## 6. Resistor Specification ( RMS 1/4W 200kΩ):



### CHARACTERISTICS 性能

ITEM 项目	SPEC 规格	REMARKS 备注
Load life under high temperature 高温负荷寿命	±1.5%	JIS C 5201-1 (4.25.1) Rated voltage at 70°C for 1,000 hours 额定电压70°C 1,000 小时
Load life under high humidity 耐湿负荷寿命	±5%	JIS C 5201-1 (4.24) Rated voltage at 40°C, 95% RH for 1,000 hours 额定电压40°C, 95% RH 1,000小时
Temp. coeff of resistance 温度系数	< 1K= ±500 PPM/°C ≥ 100KΩ= ±300 ppm/°C > 100KΩ= ±200 ppm/°C	JIS C 5201-1 Room temp. + 100°C, 30min 室温 + 100°C, 30分钟
Short time overload 短时间过负荷	±1%	JIS C 5201-1 (4.13) 6.25 times the rated power for 5 seconds 6.25倍额定功率 5 秒
Temperature cycling 温度循环	±1%	JIS C 5201-1 (4.19) 5 cycles for -25°C±3°C(30min); room temp.(30min) ~ +85°C±3°C(30min) room temp. (30min)
Resistance to soldering heat 焊锡耐热	±1%	JIS C 5201-1 (4.18) 260°C±5°C for 10 seconds(焊锡槽) 350°C±10°C for 3.5 seconds(手焊锡)
Insulation resistance 绝缘电阻	>1,000MΩ	JIS C 5201-1 (4.6.1.1) 500 volt Insulation test 1min 500 V绝缘测试电压1分钟





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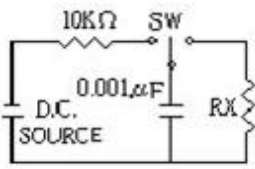
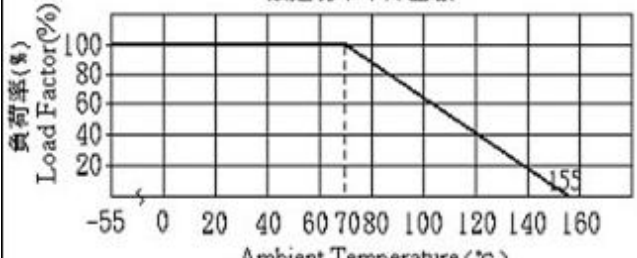
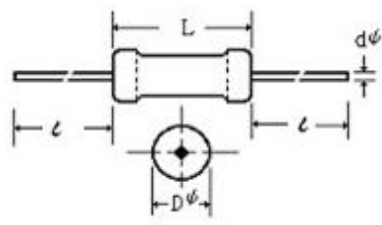
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<p>Pulse withstanding voltage 脉冲</p>	<p>±20%</p>	<p>■The following discharge cycle is repeated in the circuit of the left fig. 2.5 sec. ON 2.5 sec. OFF 50 cycles. With following DC pulse test voltage ■ Pulse voltage:1/6W,S1/4W: 3KV. ≥ 1/4W: 100KΩ: (3KV); 100KΩ-620KΩ: (5KV); &gt; 620KΩ: (10KV)</p> 
<p>DERATING CURVE 额定功率下降曲线</p> 		
<p>Various type of forming &amp; taping are available</p>		<p>提供插装的造型与带装</p>
<p>Coating color: RMU1/4W,RMU1/6W、dark blue, other、pink。</p>		<p>涂装颜色：RMU1/4W,RMU1/6W蓝色,其他粉红色。</p>

## ■ CHARACTERISTICS 性能

Model 型名	Power Rating 额定功率 (W)	Resistance Range E-24 阻值范围 Ω	Maximum Working Voltage 最高使用 电压	Dielectric Withstandi ng Voltage 耐电压	Dimension 尺寸 (mm)			
					L	D φ	t	d φ
RMU1/4W 、 RMS1/2W	1/4,1/2	10Ω ~ <100M	1600V	700V	6±0.3	2.4±0.1	28±2	0.6±0.05