



DEVETECH ELECTRONICS LIMITED

Address: 11/F., Front Block, Hang Lok Building, 130 Wing Lok St., Sheung Wan, HK

Registration. Nr.: 1994258

Email: info@devetechelectronics.com

SPECIFICATION FOR APPROVAL

CUSTOMER'S CODE

DESCRIPTION

Metal indicator light

SPECIFICATION

19mm

DATE

2019-04-08

PART NO. DVFL1M-19FW-1

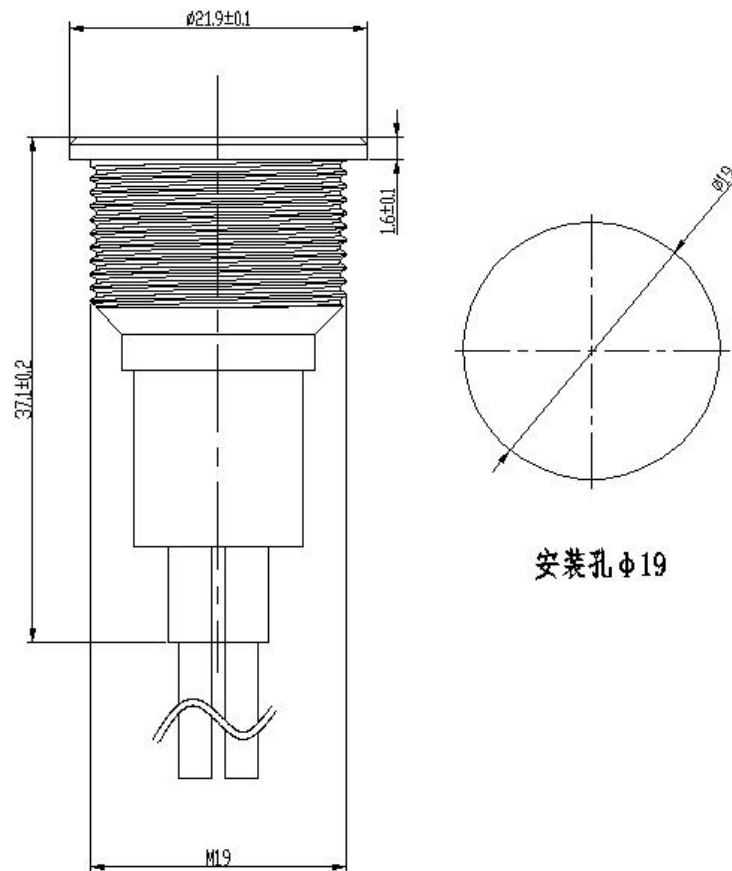
REFERENCE No.

Form Designer	Qualified By	Approved By
Tao Song	Qu Bin	Chen Ping

1. Picture:



2. Drawing:





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3.Component Material

Component Name	Material
Shell	Copper alloy
Lamp holder	PA66
Lens	PC
Luminescent Source	LED
Resistance	Carbon Film Resistance
Nut	Copper alloy
O-ring	Silica gel
Wire Leading	PVC

4.Performance Parameter

Items	Parameter
Voltage	3V ~ 220V
Rated Current	≤20mA
Rated Power	0.2W
Insulation and voltage resistance	1800V/5s
Working Life	50,000h
Cold-Resistant	-40°C
Heat-Resistant	+80°C
Led Color	R/G/B/Y/W

5.Led Detailed Picture





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6. LED Specification

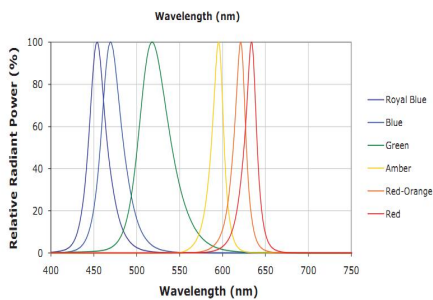
6.1 Absolute Maximum Rating

Item	Symbol	Rated Value	Unit
Maximum Forward Current	IFP	20	mA
Reverse Voltage	VR	5	V
Power	PD	60	mW
Woring Temp.	TOPR	-40~+80	°C
Storage Temperature	TSTG	-40~+100	°C
Lead-free Soldering Temperature	TSOL	Max. 260°C for 3sec Max.	

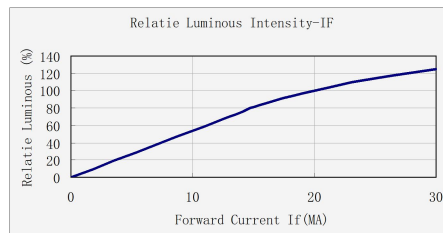
- 1)
Product photoelectric performance level, different levels of product photoelectric performance is different, please customers according to their own conditions of use to decide the use method.
- 2)
The measurement of light intensity and dominant wavelength is corrected according to the CIE international standard of the human eye response curve.
- 3)
When the brightness of the central axis is 50%, the luminous angle of one side is $\theta_{1/2}, 2\theta_{1/2} = \theta_{1/2} + \theta_{1/2},$
- 4)
The measurement tolerance of luminous intensity is $\pm 15\%$.
- 5)
The voltage is measured with a tolerance of ± 0.1 V.
- 6)
The measurement tolerance of color coordinates X and Y is ± 0.015 .

6.2 Product Optoelectronic Characteristics (Ta = 25°C)

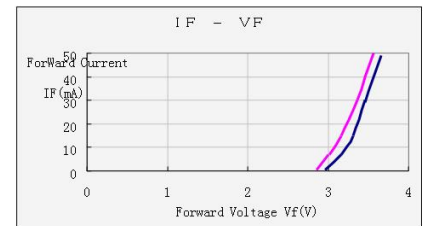
Item	Symbol	Condition	Min.	Average Value	Max.	Unit
Forward Voltage	VF	IF=20mA	2.8	--	3.2	V
Reverse Current	IR	VR=5v	--	--	5	μA
Angle	2θ1/2	IF=20mA	--	60	--	deg
Brightness	φV	IF=20mA	500	--	800	mcd
Recommend Current	IF	--	--	20	--	mA
Color	cct& λ d	IF=20mA	520	--	525	nm
Junction Temperature	TJ	IF=20mA	--	125	--	°C
Thermal Resistance	RJP	IF=20mA	--	8	--	°C/W



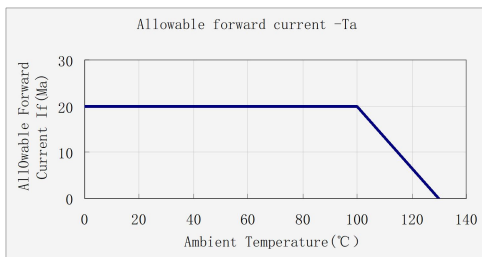
Wavelength characteristics



Light intensity and forward current curves



Reverse current vs. forward voltage plot



Maximum Forward DC vs. Temperature Graph

