

SPECIFICATION FOR APPROVAL

CUSTOMER'S CODE

DESCRIPTION P	lastic Indicator Light
SPECIFICATION	12.5mm
DATE	2019-04-08
PART NO. DVFL1P-12.5QW	-2

REFERENCE No.

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



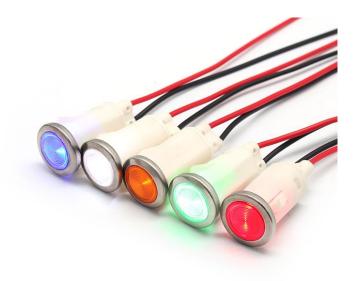
DEVETECH ELECTRONICS LIMITED

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

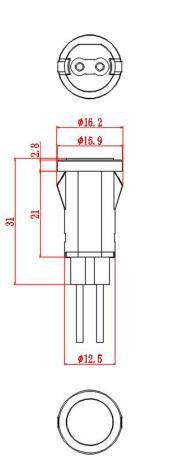
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1. Picture:



2. Drawing:







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3.Component Material

Component Name	Material		
Lens	PC		
Shell	PA66		
Base	PA66		
Luminescent Source	LED		
Resistance	Carbon Film Resistance		
Wire Leading	PVC		

4. Performance Parameter

Items	Parameter		
Voltage	3V-250V		
Rated Current	20mA		
Rated Power	0.2W		
Insulation and Voltage Resistance	2000V/10s		
Working life	100,000h		
Cold-resistant	-40 ℃		
Heat-Resistant	+80 ℃		
LED Color	R/G/Y/B/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	
Working Temp.	TOPR	-40~+80	°C	
Storage temperature	TSTG	-40~+100	°C	
Lead-free Soldering temperature	TSOL	Max. 260℃ for 3sec Max.		

Notes:

- 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 ±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 .



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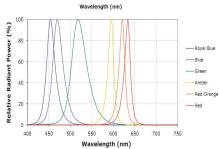
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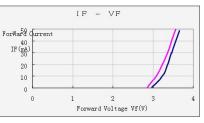
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6.2 Product Optoelectronic Characteristics (Ta = 25°C)

Item	Symbol	Condition	Min.	Average Value	Max.	Unit
Forward Voltage	VF	IF=20mA	2.8		3.2	V
Reverse Current	IR	VR=5v			5	μΑ
Angle	201/2	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

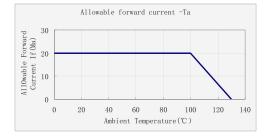






Wavelength characteristics

Light intensity and forward current curves Reverse current vs. forward voltage plot



Maximum Forward DC vs. Temperature Graph

