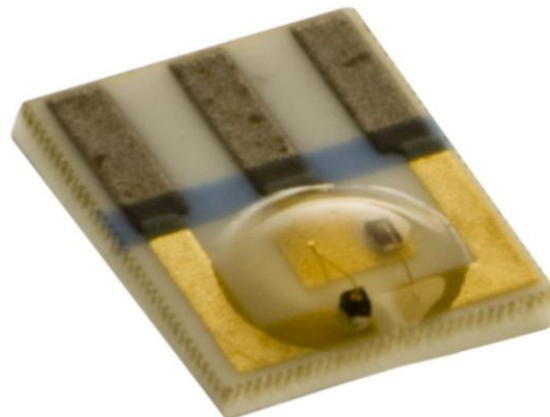


Emitter Assembly ELM-3000 Series

Dual Drive
Ceramic Substrate
Pulse Oximetry Component



The ELM-3000 Series Emitter Assemblies are specially designed for medical applications where selection of peak wavelength is a key requirement. Emission source material is GaAlAs in conjunction with GaAlP complete with clear epoxy lens.

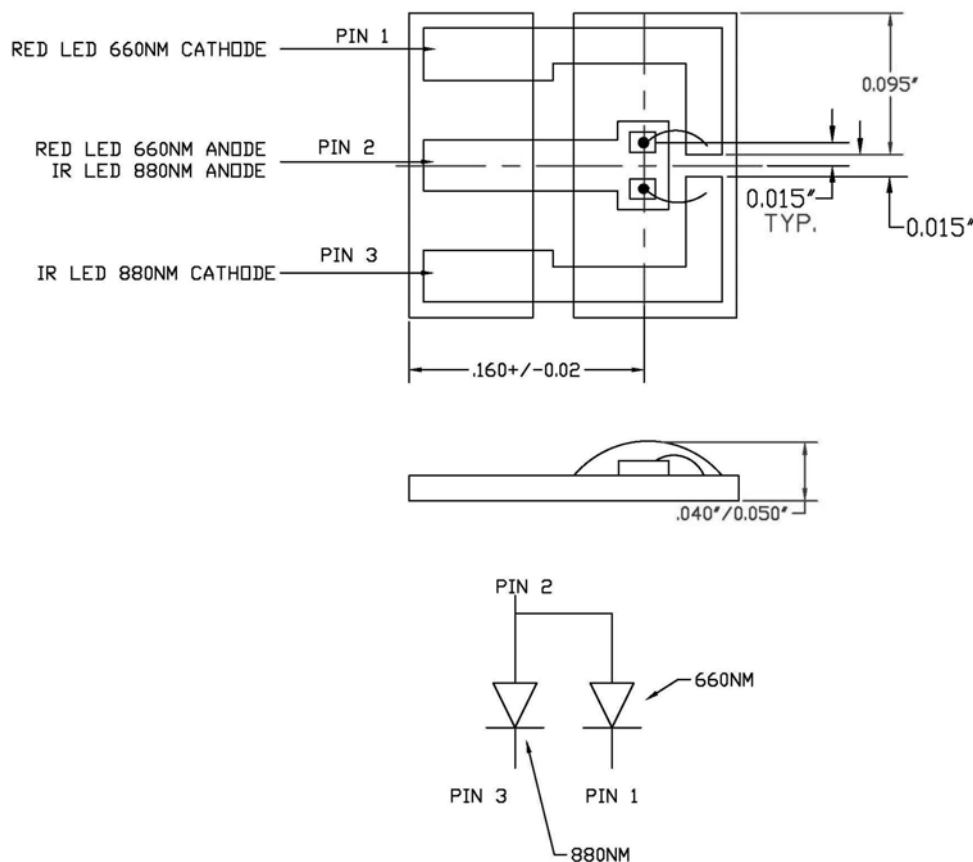
FEATURES

- Dual LEDs (Red & IR)
- 660 nm \pm 3 nm Peak Wavelength Red LED
- Two IR Wavelength Choices
- 2-Pin or 3-Pin Leadless Ceramic Substrate

APPLICATIONS

- Pulse Oximetry
- Finger/Ear Probes
- Soft Silicone Probes
- Medical Instrumentation

Dimensions (ELM-3001)



Emitter Assembly ELM-3000 Series



RED 660nm

Parameter @ 25°C	Symbol	Conditions	Min.	Typ.	Max.	Absolute	Unit
Forward Voltage	V_f	$I_f=20\text{mA}$		1.85	2.30		V
Reverse Voltage	V_{B_r}	$I_{br}=10\mu\text{A}$	3.0				V
Reverse Current	I_r	$V_r=3\text{V}$			100		μA
Luminous Intensity	L_v	$I_f=20\text{mA}$	25				Mcd
Peak Wavelength	λ_p	$I_f=20\text{mA}$	657	660	663		nm
Spectral Bandwidth	$\lambda\Delta$	$I_f=20\text{mA}$		20			nm

INFRARED 880nm (ELM-3001, ELM-3002)

Forward Voltage	V_f	$I_f=20\text{mA}$			1.50		V
Reverse Voltage	V_{B_r}	$I_{br}=10\mu\text{A}$	3.0				V
Reverse Current	I_r	$V_r=3\text{V}$			100		μA
Peak Wavelength	λ_p	$I_f=20\text{mA}$	870	880	890		nm
Spectral Bandwidth	$\lambda\Delta$	$I_f=20\text{mA}$		60	80		nm
Total Output	P_o	$I_f=20\text{mA}$	≥ 0.6	1			mW

INFRARED 940nm (ELM-3003, ELM-3004)

Forward Voltage	V_f	$I_f=20\text{mA}$		1.20	1.40		V
Reverse Voltage	V_{B_r}	$I_{br}=10\mu\text{A}$	5.0				V
Reverse Current	I_r	$V_r=3\text{V}$					μA
Peak Wavelength	λ_p	$I_f=20\text{mA}$	930	940	950		nm
Spectral Bandwidth	$\lambda\Delta$	$I_f=20\text{mA}$		45			nm
Total Output	P_o	$I_f=20\text{mA}$	≥ 0.6	1			mW

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Ordering Information

Description

Emitter Assembly; Ceramic 3-Lead; 660/880nm
Emitter Assembly; Ceramic 2-Lead; 660/880nm
Emitter Assembly; Ceramic 3-Lead; 660/940nm
Emitter Assembly; Ceramic 2-Lead; 660/940nm

Part Number

ELM-3001
ELM-3002
ELM-3003
ELM-3004

联系方式



深圳市亿为测控电子有限公司
Shenzhen Bill-Well Measurement & Control Electronics Co., Ltd.

广东省深圳市南山区创业路怡海广场东座2407 邮编：518000

电话：+86 755 2641 9890 传真：+86 755 2641 9680

电子邮箱：sales@bill-well.com