Laser Diodes

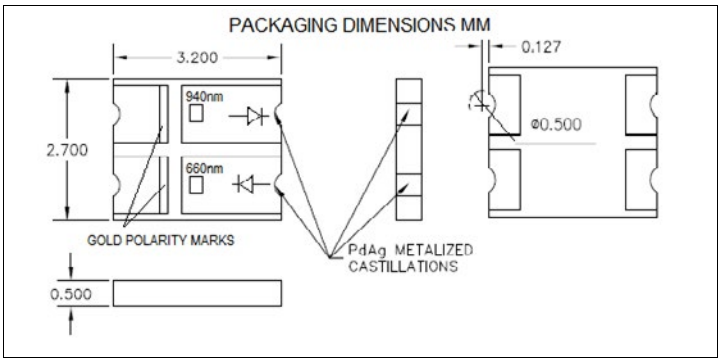
LUNA OPTOELECTRONICS

LASER COMPONENTS

GaAlAs High Power Dual IR LED Emitters

APW-MW2-1210-020

Precision – Control – Results



DESCRIPTION

The **APW-MW2-1210-020** is a two drive line dual emitter oximeter component. The 660nm and 940nm GaAlAs infrared emitters are mounted in a "glob top" low cost ceramic SMT package. The LEDs are bias separately by alternating polarity on the bias pins.

FEATURES

- Low Cost
- 660nm±3nm
- Center Pick Wavelength Binning is Optional
- Two Drive Lines

RELIABILITY

Contact API for recommendations on specific test conditions and procedures.

APPLICATIONS

- Oximeter Probes
- Finger Clamps
- Reusable Probes

ABSOLUTE MAXIMUM RATINGS

T_a = 23°C unless noted otherwise

SYMBOL	MIN	MAX	UNITS
Reverse Voltage	-	4	V
Operating Temperature	-40	+80	°C
Storage Temperature	-40	+80	°C
Soldering Temperature	-	+240	°C
Peak Forward Current	-	200	nm
Continuous Forward Current	-	30	mA
Maximum Power Dissipation	-	250	mW

REV 10-30-14

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TYPICAL PERFORMANCE

CHARACTERISTIC	TEST CONDITIONS	660nm			940nm			
		MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Breakdown Voltage	I_f = 10 µA	5	-	-	5	-	-	V
Radiant Flux	I_f = 10 mA	1.8	2.4	-	1.2	1.8m	-	mW
Luminous Intensity	I_f = 10 mA	20	30	-	-	-	-	mcd
Forward Voltage	I_f = 10 mA	-	1.8	2.4	-	1.3	1.5	V
Peak Wavelength	I_f = 10 mA	658	661	664	930	940	950	nm
Rise Time (50Ω load)	I_f = 10 mA	-	0.8	-	-	0.8		ns
Spectral Halfwidth	I_f = 10 mA	-	25	-	-	50	-	nm
Fall Time	I_f = 10 mA	-	0.8	-	-	0.8	-	ns

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