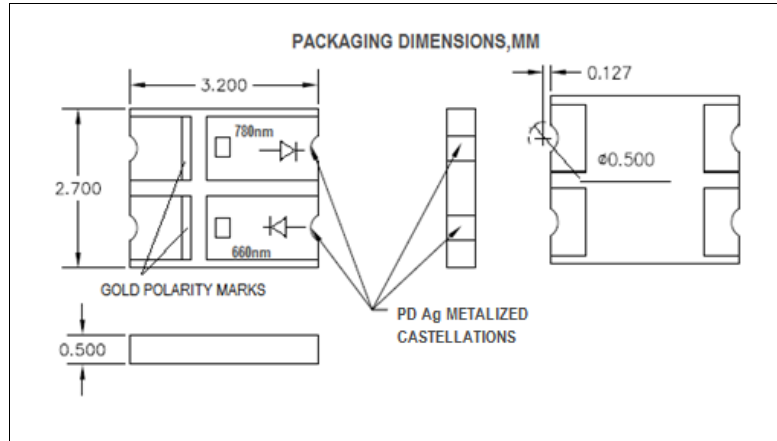


GaAlAs High Power Dual IR LED Emitters
PRELIMINARY APW-MW2-1210-501

Precision – Control – Results



DESCRIPTION

The **APW-MW2-1210-501** is a two drive line dual emitter oximeter component. The 660nm and 780nm GaAlAs infrared emitters are mounted in a “glob top” low cost ceramic SMT package.

FEATURES

- Low Cost
- 660 nm ± 3nm
- Optimal Peak Wavelength Binning
- Two Drive Lines

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Oximeter Probes
- Finger Clamps
- Reusable Probes

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	(TA)= 23°C UNLESS OTHERWISE NOTED
Reverse Voltage	-	-	4	V	-
Operating Temperature	-40	to	+80	°C	-
Storage Temperature	-40	to	+80	°C	-
Soldering Temperature	-	-	+240	°C	-
Peak Forward Current	-	-	200	nm	-
Continuous Forward Current	-	-	30	mA	-
Maximum Power Dissipation	-	-	250	mW	-

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

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OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED
OTHERWISE

PARAMETER	TEST CONDITIONS	660 nm			780 nm			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	
Breakdown Voltage	I _f = 10 μA	5	-	-	5	-	-	V
Radiant Flux	I _f = 10 mA	1.8	2.4	-	1.2	1.8	-	mW
Luminous Intensity	I _f = 10 mA	20	30	-	-	-	-	mcd
Forward Voltage	I _f = 10 mA	-	1.8	2.4	-	1.8	-	V
Peak Wavelength	I _f = 10 mA	658	661	664	770	780	790	nm
Rise Time (50Ω load)	I _f = 10 mA	-	0.8	-	-	0.8	-	ns
Spectral Halfwidth	I _f = 10 mA	-	25	-	-	50	-	nm
Output Power	I _f = 20 mA	-	0.8	-	-	4.0	-	ns

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