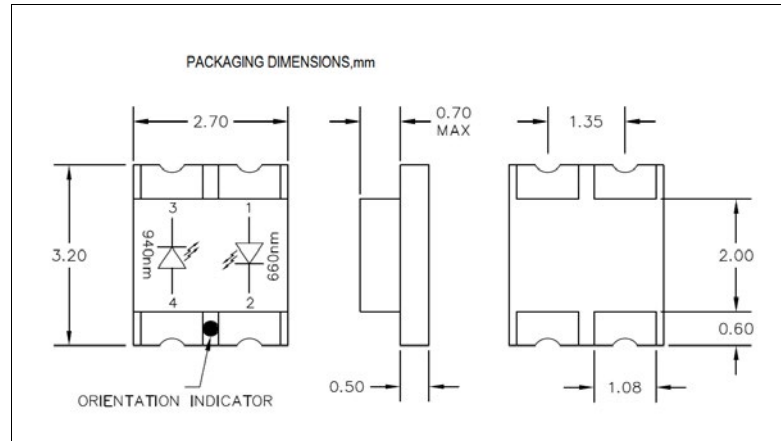


## GaAIAS High Power Dual IR LED Emitters

### APW-MW2-1210-010

#### Precision – Control – Results



#### DESCRIPTION

The **APW-MW2-1210-010** is a two drive line dual emitter oximeter component. The 660nm and 940nm GaAIAs infrared emitters are mounted in a “glob top” low cost ceramic SMT 1210 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.

REV 01-04-16

© 2016 Luna Optoelectronics. All rights reserved.

### GaAlAs High Power Dual IR LED Emitters

APW-MW2-1210-010

Precision – Control – Results

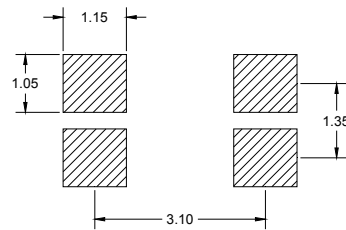
#### OPTO-ELECTRICAL PARAMETERS

T<sub>a</sub> = 23°C UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	660 nm			880 nm			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	
Breakdown Voltage	I <sub>f</sub> = 10 μA	5.0	-	-	5.0	-	-	V
Radiant Flux	I <sub>f</sub> = 10 mA	1.8	2.4	-	1.2	1.8m	-	mW
Luminous Intensity	I <sub>f</sub> = 10 mA	20	30	-	-	-	-	mcd
Forward Voltage	I <sub>f</sub> = 10 mA	-	1.8	2.4	-	1.3	1.5	V
Peak Wavelength	I <sub>f</sub> = 10 mA	658	661	664	930	940	950	Nm
Rise Time (50Ω load)	I <sub>f</sub> = 10 mA	-	0.8	-	-	0.8	-	ns
Spectral Halfwidth	I <sub>f</sub> = 10 mA	-	25.0	-	-	50	-	nm
Fall Time	I <sub>f</sub> = 10 mA	-	0.8	-	-	0.8	-	ns

#### TYPICAL PERFORMANCE

#### SUGGESTED PBC LAYOUT (mm)



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.

REV 01-04-16

© 2016 Luna Optoelectronics. All rights reserved.