Texas Photonics, Inc.

TXPI 1261
Dual LED Emitter, 660 nm/895 nm

DESCRIPTION

This is a dual high radiance 660 nm visible and 895 nm infrared emitting LED Assembly, designed for medical ratio-metric measurements.

FEATURES

- ❒ Visible and infrared power emissions
- ❒ High Reliability
- ❒ Small surface mount ceramic substrate
- ❒ 2-Terminal Electrical connection

ABSOLUTE MAXIMUM RATINGS

- ❒ Storage temperature..... -40°C to +80°C
- ❒ Case operating temperature..... -40°C to +80°C
- ❒ Solder temperature..... 240°C, 3 seconds
- ❒ Reverse Voltage..... 5 Volts

ELECTRO-OPTICAL CHARACTERISTICS (Case T = 25°C)

PARAMETER	TEST CONDITION	SYMBOL	MIN	TYP	MAX	UNIT
Forward Voltage (660 nm)	If = 20 mA	V_f1		1.8	2.4	Volts
Forward Voltage (895 nm)	If = 20 mA	Vf2		1.3	1.7	Volts
Reverse Breakdown Voltage (660 nm)	Ir = 10 µA	BVR	5			Volts
Reverse Breakdown Voltage (895 nm)	Ir = 10 µA	BVR	5			Volts
Radiant Flux (660 nm)	If = 20 mA	Po1	1.5	1.9		mW
Radiant Flux (895 nm)	If = 20 mA	Po2	1.5	1.6		mW
Peak Wavelength (660 nm)	If = 20 mA	λ_p	655	660	665	nm
Peak Wavelength (895 nm)	If = 20 mA	λ_p	885	895	905	nm
Spectral Bandwidth (660 nm)	If = 20 mA, FWHM	$\Delta\lambda$		25		nm
Spectral Bandwidth (895 nm)	If = 20 mA, FWHM	$\Delta\lambda$		50		nm
Rise/Fall Time (660 nm)	If = 20 mA	tr/tf		0.8		µsec
Rise/Fall Time (895 nm)	If = 20 mA	tr/tf		0.8		µsec

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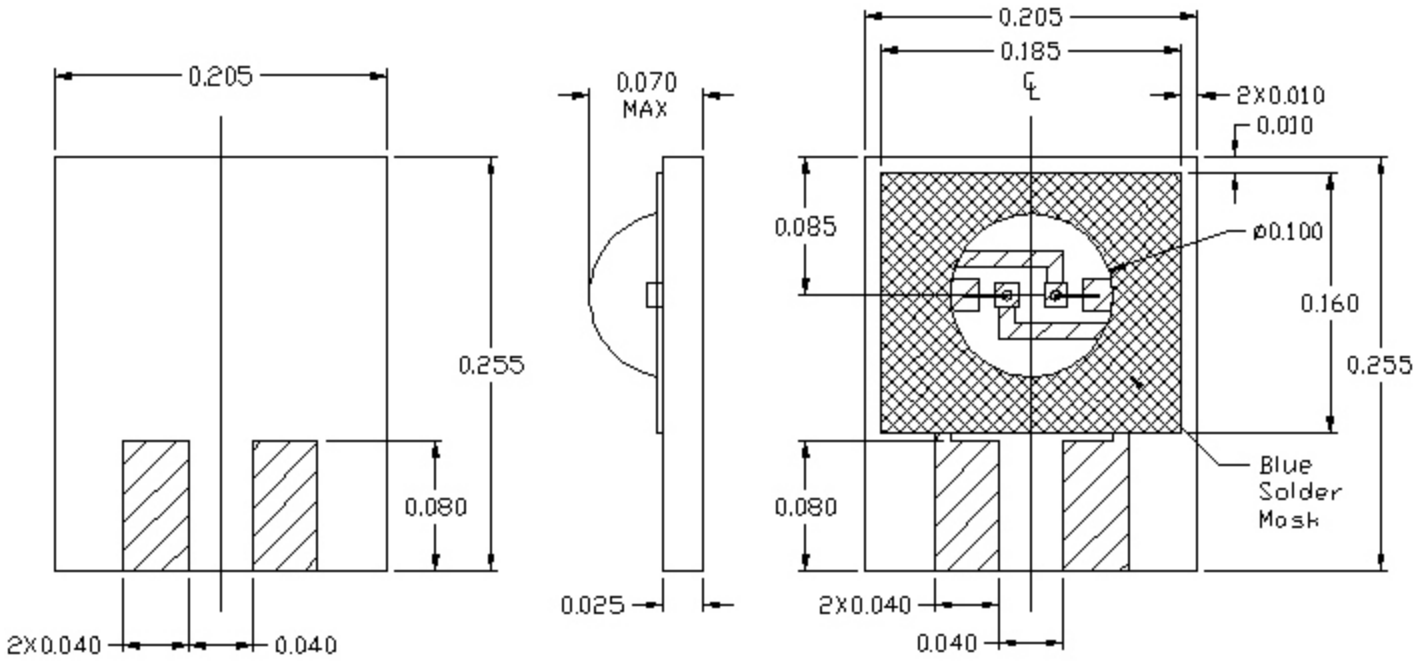
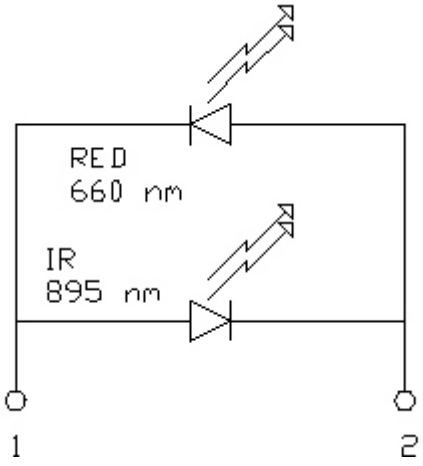
OUTLINE DIMENSIONS



Tolerances are +/-0.005 inches, except as noted

ELECTRICAL SCHEMATIC



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