

# SWIR Emitter

Product No: MTSM6414SMR2

### Peak Emission Wavelength: 1460nm

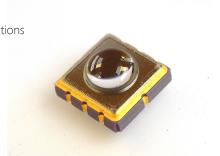
The MTSM6414SMR2 is a 1460nm SWIR Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

#### **FEATURES**

- > 5mm x 5mm Seam Welded Surface Mount Package
- > High Reliability
- > High Output Power
- > Hermetically Sealed Package

#### **APPLICATIONS**

- > Bio Medical Applications
- > Optical Sensors
- > Aerospace
- > Industrial Controls







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ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	Α
Reverse Voltage	VR	5	V
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

Note: Also available on PCB - Starboard MTSM6414SMR2S (See Page 3)

\*1: Tw=10µsec, T=10msec

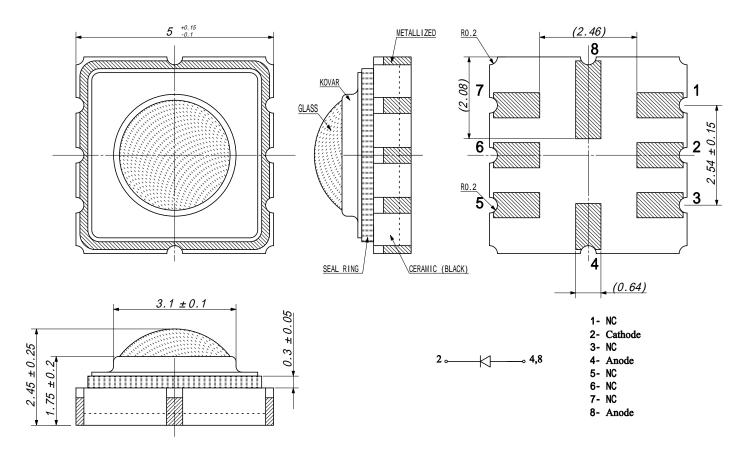
## Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=50mA		0.88		V
Power Output	PO	IF=50mA		4.3		mW
Reverse Current	IR	VR=5V			10	μΑ
Peak Emission Wavelength	λρ	IF=50mA		1460		nm
Spectral Line Half Width	Δλ	IF=50mA		78		nm
Half Intensity Beam Angle	Θ	IF=50mA		40		deg

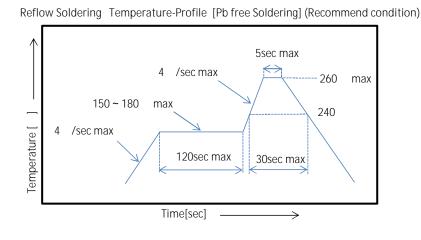
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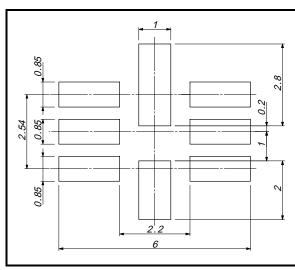


## **Package Dimensions**



### Recommended Soldering Pattern [mm]





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#### **Starboard Dimensions** Pin 1 NC Pin 2 Cathode Pin 3 NC 0.783" Pin 4 Anode Pin 5 NC Pin 6 NC NC Pin 7 R 0.063 Pin 8 Anode -0984 Marktech ( Aluminum Core Board 0.040" (1.02mm) Thickness Overall Board Dimensions: +/- 0.010" (0.254mm)

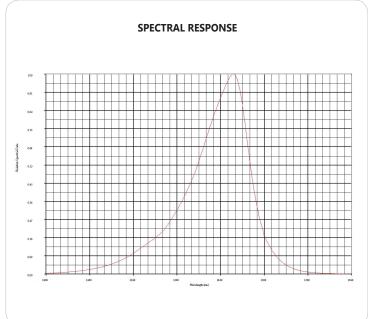


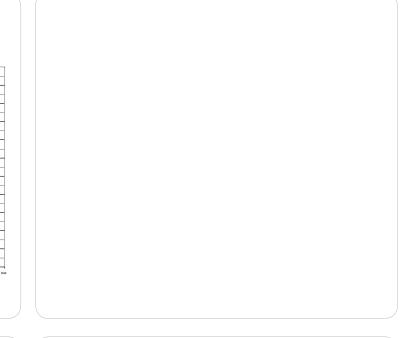
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

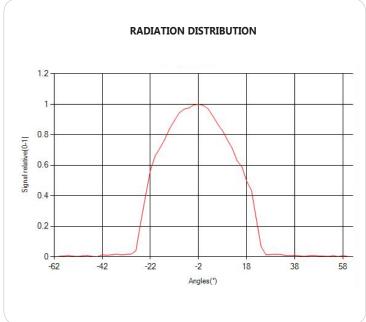
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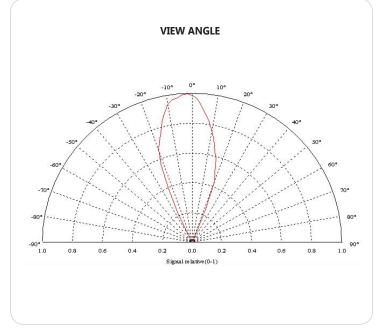
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