# MACS-007800-0M1R00



Local Oscillator
24.125 GHz
Rev. V3

#### **Features**

- Low Cost
- Compact Size
- · Gold Plated Solder Pins
- Rugged Die cast Construction
- RoHS\* Compliant

## **Description and Applications**

M/A-COM's MACS-007800-0M1R00 is a RoHS Compliant K-Band Local Oscillator consisting of a Gunn Diode oscillator assembled into a die cast waveguide package.

These Local Oscillators are well suited for high volume applications where small size and reliability are required. This local oscillator is an inexpensive low power transmitter suitable for use in CW Doppler radar systems. Typical applications include, Speed radars, traffic control, and industrial process control.

#### **Product Specifications**

Parameter	Test Conditions	Units	Min.	Тур.	Max.	
Operating Frequency	+25 °C	GHz	24.12	24.150	24.17	
Output Power	+25 °C	mW	8.0			
Operating Current	+25 °C	mA		175	250	
Operating Voltage	+25 °C	VDC		5.0		

Operating temperature to full specifications -30°C to +70°C

# Absolute Maximum Ratings <sup>1</sup>

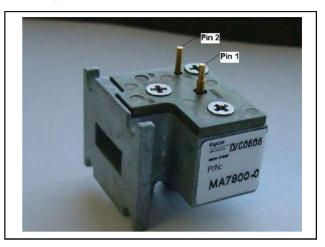
Parameter	Maximum Ratings		
Operating Temperature	-40 °C to +85 °C		
Storage Temperature	-65 °C to +150 °C		
Incident RF Input Power	+20 dBm		
DC Input (Gunn Diode)	+5.5VDC		
Soldering Temperature	+260 °C max.		

1. Exceeding these limits may cause permanent damage.

Note: Device is ESD Sensitive.

Proper ESD Precautions should be used when handing this Device..

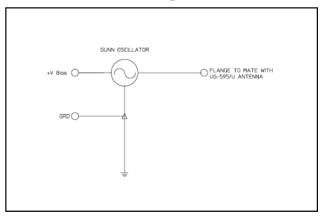
## **Package Outline**



## **PIN Configuration**

Pin	Function		
1	DC Input		
2	GND		

#### **Functional Block Diagram**





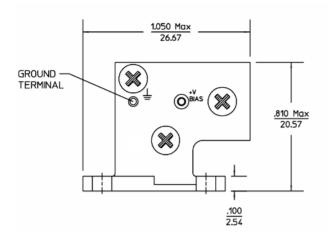
<sup>\*</sup> Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

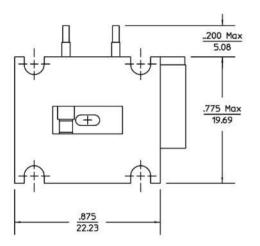
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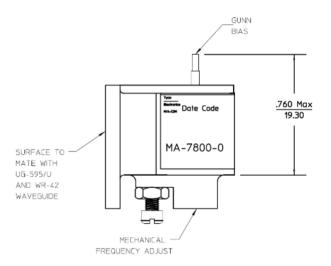


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