

24.125GHz Mono Doppler Transceiver

MACS-007801-0M1RM0

**Features**

- Low Cost
- Compact Size
- Gold Plated Solder Pins
- Rugged Die cast Construction
- 10Hz to 5000Hz IF Bandwidth
- Lead Free (RoHS Compliant)

**Description and Applications**

M/A-COM's MACS-007801-0M1RM0 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. Typical applications include police radar and presence sensing applications.

**Product Specifications**

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Operating Frequency	+25 °C	GHz	24.100	24.125	24.150
Output Power	+25 °C	mW	5.0		
Operating Current	+25 °C	mA	60	85	100
Operating Voltage	+25 °C	VDC		5.0	
Schottky Diode Noise	+25 °C	micro-Volts		2.5	5.0
Transceiver Sensitivity	+25 °C	-dBc	-90	-103	

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

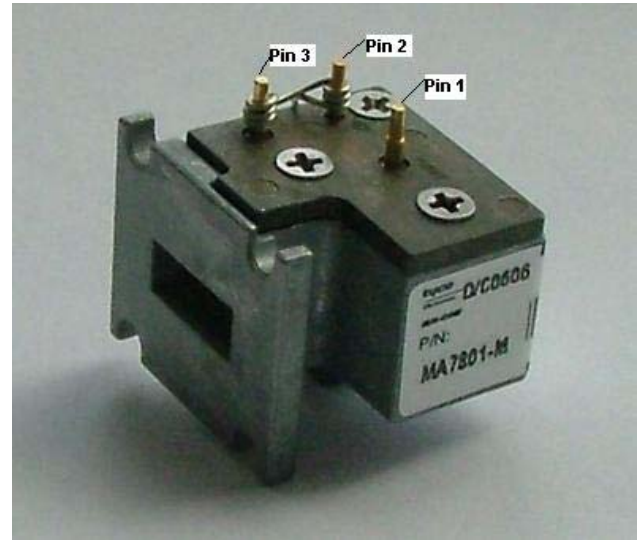
**Absolute Maximum Ratings<sup>1</sup>**

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 handling this Device..**

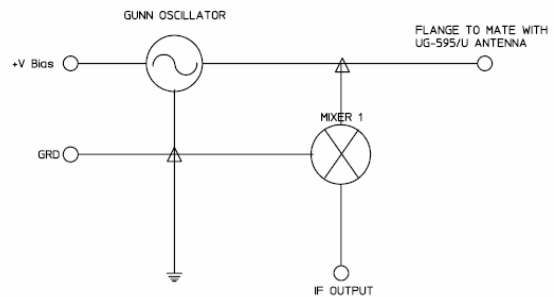
**Package Outline**



**PIN Configuration**

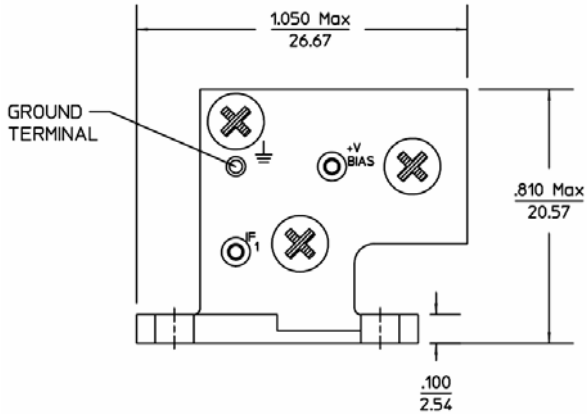
PIN	Function
1	DC Input
2	GND
3	IF Output

**Functional Block Diagram**



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Label Information

