MACS-007800-0M1R00

Local Oscillator 24.125 GHz



- 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 ℃	GHz	24.12	24.150	24.17
Output Power	+25 ⁰C	mW	8.0		
Operating Current	+25 ℃	mA		175	250
Operating Voltage	+25 ℃	VDC		5.0	

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

Absolute Maximum Ratings ¹

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..

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

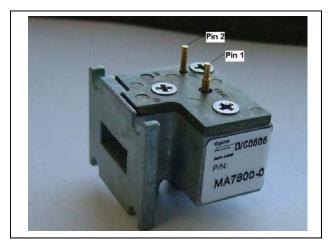
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are

typical. Mechanical outline has been fixed. Engineering samples Commitment to produce in volume is not guardinged.

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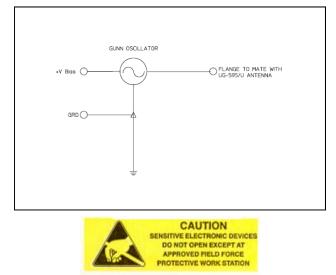
Package Outline



PIN Configuration

Pin	Function		
1	DC Input		
2	GND		

Functional Block Diagram



ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions • North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400 is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. • India Tel: +91.80.43537383

• China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.

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