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REVISIONS			
REV	DESCRIPTION	DATE	APPV'D
-	Initial release per ECO 20065706	See Below	



1011 Pawtucket Blvd.,
Lowell, MA 01853-3295
Cage Code 96341

Prepared By: Samantha Perez Date 3/5/07
Documentation Specialist

Approved By: Tom Woodward Date 3/5/07
Engineer

Approved By: Robert Moore Date 3/5/07
Manufacturing Engineer

Approved By: Mark Donoghue Date 3/8/07
QA Engineer

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PRODUCTION

TITLE:

Product Specification,MACS-007801-0M1RMR

DWG. NO:

PS-MACS-007801-0M1RMR

REV. -

SHEET 1 OF 2

The MACS-007801-0M1RMR is a RoHS Compliant K-Band Mono Doppler transceiver consisting of a Gunn Diode oscillator and Schottky Diode mixer assembled into a diecast waveguide package. It is designed for commercial applications, for speed measurements or motion sensing.

ELECTRICAL SPECIFICATIONS



Center Frequency:	24.125 GHz ± 25 MHz
Power Output:	5 mW minimum @ +25°C
Operating Voltage:	+5.0 Vdc
Operating Current:	100 mA @ +25°C 110 mA @ -30°C
Mixer Noise: (3)	5.0 millivolts maximum
Mixer Sensitivity: (3)	-90 dBc minimum
Mixer Load Resistor: (supplied)	1000 ohms
Operating Temperature:	-30°C to +70°C
Frequency Temperature Coefficient:	1 MHz/°C maximum
Schottky Diode Output Polarity:	Negative

MECHANICAL SPECIFICATIONS

Outline Drawing:	See MACS-007801-0M1RMR
D.C. Bias (Gunn):	Solder pin
Mixer Output:	Solder pin
RF Output:	WR-42 waveguide mates with UG-595/U flange

Notes:

1. Maximum solder temperature to pins is 250°C max for a 5 second duration.
2. Units are extremely ESD sensitive. Parts should only be handled in an appropriate ESD protected manner.
Failure to do so may void manufacturer warranty.
3. As measured at the output of a standard low noise amplifier with a voltage gain of 60 dB. Amplifier bandwidth is 10 Hz to 1000 Hz.
4. Transceiver Meets Directive 2002/EC RoHS Compliant.

 	CAGE CODE: 96341	DWG. NO.: PS-MACS-007801-0M1RMR
	SHEET 2 OF 2	REV. -