

Single Junction Drop-In Circulator

960 MHz—1200 MHz

Rev. 04

Applications

- ◆ RADAR

Features

- ◆ RoHS Compliant
- ◆ BeO free

Electrical Specifications

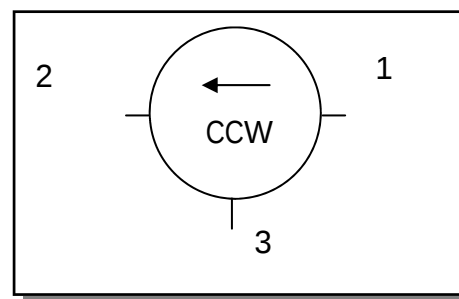
Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	960		1200
Impedance		Ω		50	
Insertion Loss		dB			0.50
Insertion Loss	978 MHz to 1090 MHz	dB			0.40
Isolation		dB	18	20	
Return Loss		dB	18	20	

1. All specifications guaranteed over the operating temperature range unless otherwise stated.
2. See Application Note ANI-001 for further details.

Pin Configuration

Terminal	Designation	Function
1	Port 1	In
2	Port 2	Out
3	Port 3	Out

Functional Block Diagram



Absolute Maximum Ratings

Parameter	Conditions	Units	Min	Max
Input Power		W		1200
Reverse Power		W		1200
Operating Temperature Range		°C	-40	+85
Storage Temperature Range		°C	-55	+125

Application Notes Available

Application Note	Description
ANI-001	IMD Measurement of Ferrite Isolators and Circulators
ANI-003	Maximum Peak Power of Ferrite Junctions
ANI-004	Base Plate Temperature of Ferrite Isolators and Circulators
ANI-007	Reflow Soldering Guidelines
ANI-008	Curie Temperature of Isolators and Circulators
ANI-009	Tape and Reel Information for Isolators and Circulators

1

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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 and/or test data may be available. Commitment to produce in volume is not guaranteed.

• **North America** Tel: 800.366.2266 • **Europe** Tel: +353.21.244.6400
 • **India** Tel: +91.80.43537383 • **China** Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

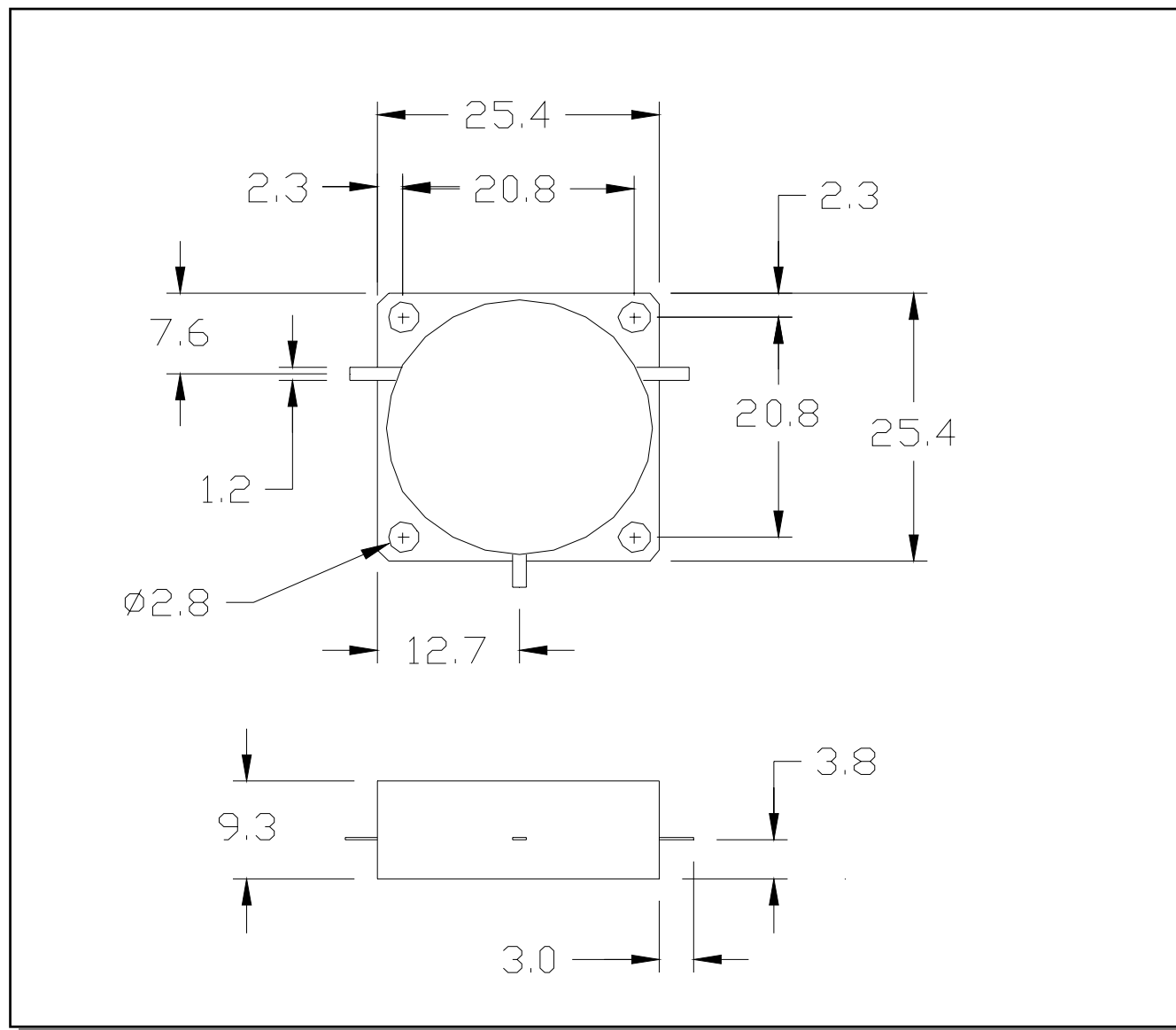
M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

Single Junction Drop-In Circulator

960 MHz—1200 MHz

Rev. 04

Outline Drawing



1. Dimensions in mm.
2. Tolerance: $\pm 0.2\text{mm}$ unless otherwise noted.
3. Lead thickness is 0.12mm.
4. Model number, lot code and port designation printed on top side of unit.

Plating

Section	Material	Plating
Leads	Copper	Silver
Housing	Steel	Nickel

ECO History

Rev	Date	Description	By
04	21/9/2009	Update format	BH