MAFR-000291-000001



Single Junction SMT Circulator 2010 MHz—2025 MHz

Rev. A

Applications

- ♦ Wireless Infrastructure
- **♦ LTE**

Features

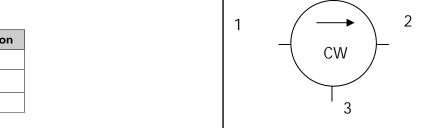
- ♦ RoHS Compliant
- ♦ BeO free

Electrical Specifications

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	2010		2025
Impedance		Ω		50	
Insertion Loss	@+25°C	dB			0.25
Insertion Loss		dB			0.30
Isolation	@+25°C	dB	25		
Isolation		dB	20		
Return Loss	@+25°C	dB	25		
Return Loss		dB	20		
Forward Intermodulation	2 x 37.5W CW tones, 5MHz spacing	dBc			-70

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

Functional Block Diagram



Pin Configuration

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

Absolute Maximum Ratings

Parameter	Conditions	Units	Min	Max
Input Power		W		1000
Reverse Power		W		500
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	

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

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.

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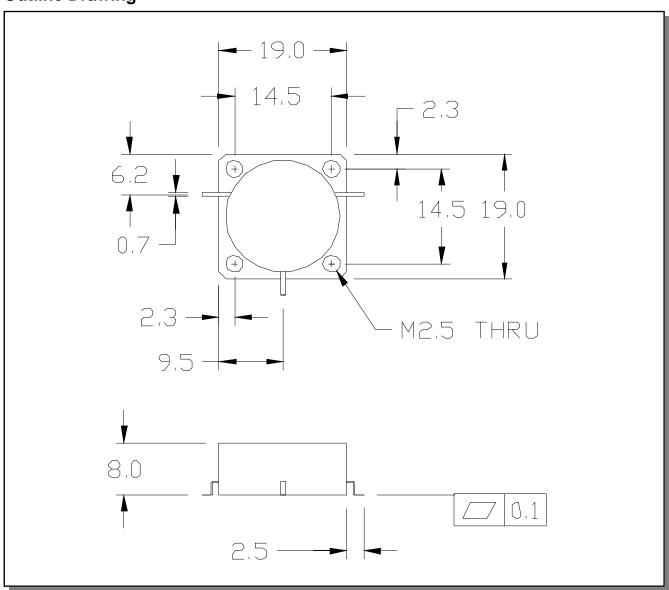
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Outline Drawing



- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm 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	Silver

ECO History

Rev	Date	Description	Ву
Α	17/9/2009	Update to new format	ВН

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