MAFR-000486-000001



Single Junction Drop-In Circulator 1475 MHz—1501 MHz

Rev. 03

Applications

♦ LTE

Features

- ♦ RoHS Compliant
- ♦ BeO free

Electrical Specifications

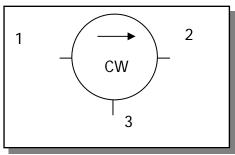
Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	1475		1501
Impedance		Ω		50	
Insertion Loss	-40°C to +80°C	dB			0.15
Insertion Loss	+80°C to +95°C	dB			0.20
Isolation		dB	22		
Return Loss		dB	21		
Forward Intermodulation	2 x 40W CW tones, 5MHz spacing	dBc			-70

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

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		200
Reverse Power		W		200
Operating Temperature Range		°C	-40	+95
Storage Temperature Range		°C	-55	+125

Application Notes Available

Commitment to produce in volume is not guaranteed.

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

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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology

and/or prototype measurements. Commitment to develop is not guaranteed.

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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.

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 Visit www.macomtech.com for additional data sheets and product information.

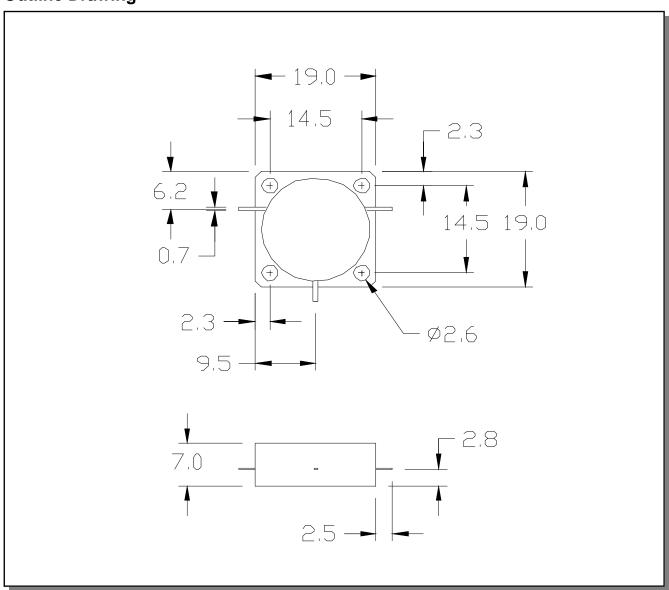
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Outline Drawing



- 1. Dimensions in mm.
- Tolerance: ±0.2mm unless otherwise noted.
- Lead thickness is 0.12mm.
- 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

• India Tel: +91.80.43537383

Rev	Date	Description	Ву
02	17/9/2009	Update to new format	ВН
03	22/09/2009	Updated applications	DAC

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