MAFRIN0533



Single Junction Drop-In Isolator 1805 MHz—1880 MHz

Rev. A

Applications

- ♦ Wireless Infrastructure
- ♦ DCS

Features

- ♦ RoHS Compliant
- ♦ BeO free

Electrical Specifications

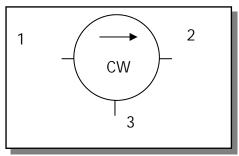
Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	1805		1880
Impedance		Ω		50	
Insertion Loss		dB			0.25
Isolation	-10°C to +85°C	dB	20		
Isolation	-30°C to -10°C	dB	18		
Return Loss	-10°C to +85°C	dB	21		
Return Loss	-30°C to −10°C	dB	19		
Third Order Intermodulation ²	2 x 30W CW tones, 5MHz spacing	dBc		-75	

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

Functional Block Diagram

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

Pin Configuration



Absolute Maximum Ratings

Parameter	Conditions	Units	Min	Max
Input Power		W		1000
Reverse Power		W		100
Operating Temperature Range		°C	-30	+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

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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.

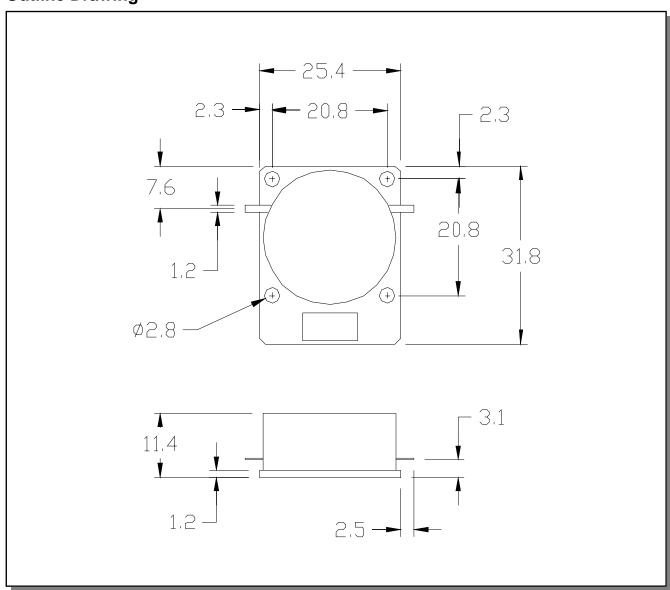
North America Tel: 800.366.2266
 India Tel: +91.80.43537383
 Europe Tel: +353.21.244.6400
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.



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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

Rev	Date	Description	Ву
Α	16/9/2009	Update to new format	ВН