MAFRIN0536



Single Junction Drop-In Circulator 869 MHz—894 MHz

Rev. A

Applications

- ♦ Wireless Infrastructure
- ♦ GSM

Features

- ♦ RoHS Compliant
- ♦ BeO free

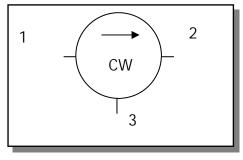
Electrical Specifications

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	869		894
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	ird Order Intermodulation ² 2 x 30W CW tones, 5MHz spacing			-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

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	-30	+85
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

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.

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.

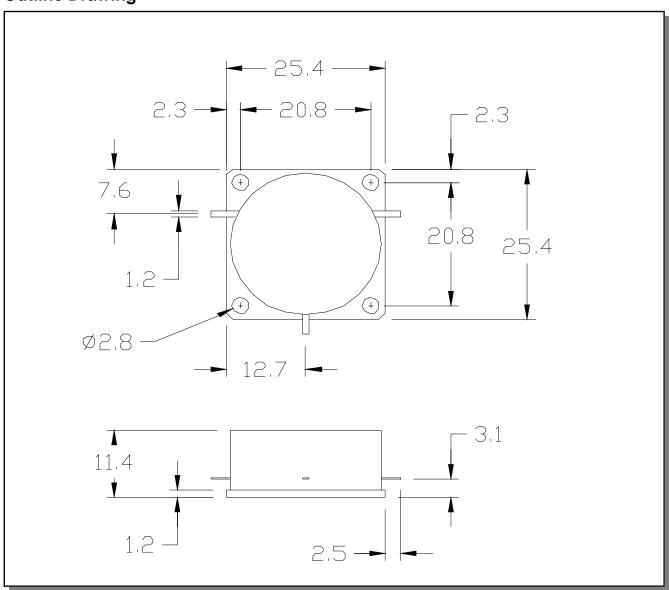
North America Tel: 800.366.2266
 India Tel: +91.80.43537383
 Europe Tel: +353.21.244.6400
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.



Single Junction Drop-In Circulator 869 MHz-894 MHz

Rev. A

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

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