MAFR-000492-000001



Single Junction Drop-In Circulator 728 MHz—756 MHz

Rev. 03

Applications

- ♦ Wireless Infrastructure
- **♦ LTE**

Features

- ♦ RoHS Compliant
- ♦ BeO free

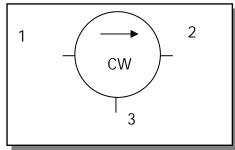
Electrical Specifications

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	728		756
Impedance		Ω		50	
Insertion Loss	-40°C to +85°C	dB			0.25
Insertion Loss	+85°C to +95°C	dB			0.30
Isolation		dB	20		
Return Loss		dB	20		
Third Order Intermodulation ²	2 x 45dBm CW tones, 5MHz spacing, up to +85°C	dBc			-75
Third Order Intermodulation ²	2 x 45dBm CW tones, 5MHz spacing, up to +95°C	dBc			-65

- 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 Terminated



Absolute Maximum Ratings

Parameter	Conditions	Units	Min	Max
Input Power		W		1000
Reverse Power		W		70
Operating Temperature Range		°C	-40	+95
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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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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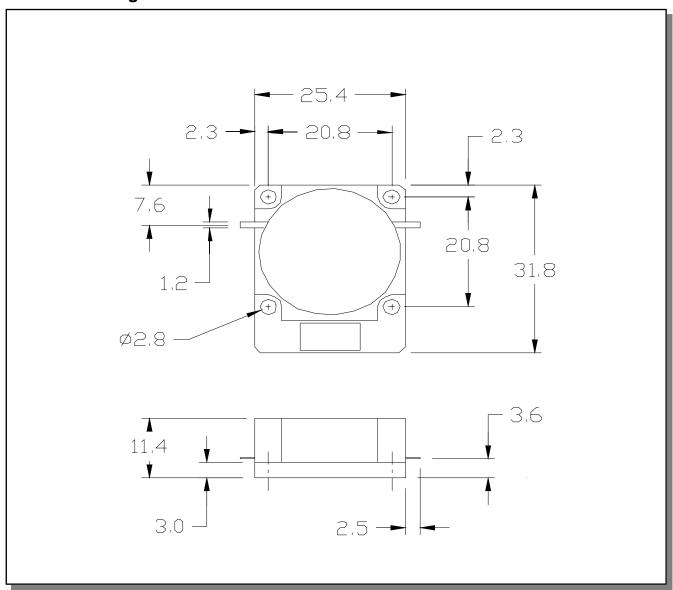
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Outline Drawing



- 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	White bronze

ECO History

Rev	Date	Description	Ву
03	21/9/2009	Update format	ВН

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