MAFR-000276-000001



Applications

- ♦ Wireless Infrastructure
- ♦ LTE

Electrical Specifications

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	2090		2190
Impedance		Ω		50	
Insertion Loss	@25°C	dB			0.20
Insertion Loss		dB			0.23
Isolation		dB	22		
VSWR					1.2:1
Third Order Intermodulation ²	2 x 40W CW tones, 5MHz spacing	dBc		-70	

All specifications guaranteed over the operating temperature range unless otherwise stated. 1

See Application Note ANI-001 for further details. 2.

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	+90
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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Rev. E

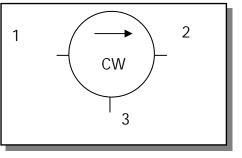
Features

- RoHS Compliant
- BeO free

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Functional Block Diagram

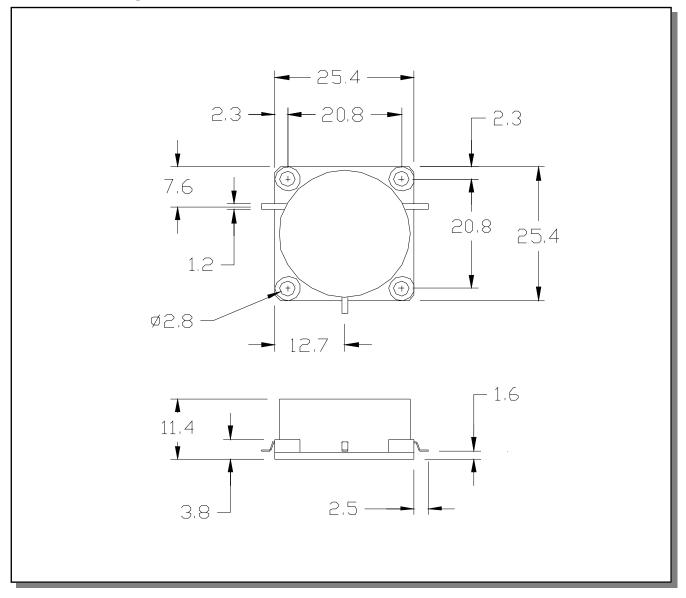


1

MAFR-000276-000001

Single Junction Drop-In Circulator 2090 MHz—2190 MHz

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
E	23/9/2009	Update format	BH

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