

SPECIFICATION SHEET

MAFR-000247-000001: 2300—2500 MHz Single Junction Drop In Isolator

Applications

- RADAR
- Power amplifiers



Features

- Operating frequency range: 2300 to 2500 MHz
- BeO free
- RoHS compliant

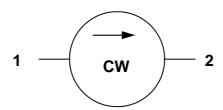


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P _{AVG}			200	W
Peak power	P _{PK}			1000	W
Reverse power	P _{REV}			60	W
Operating temperature range	T _{OP}		-40	+85	°C
Storage temperature range	T _{STOR}		-55	+125	°C

Note: Exceeding any of the limits listed here may result in permanent damage to the device or may reduce device reliability.

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Table 2. Electrical Specifications (Note 1)

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		2300		2500	MHz
Impedance				50		Ω
Insertion loss	IL				0.25	dB
Isolation	ISO		20			dB
Return loss	RL		20			dB
Intermodulation distortion (Note 2)	IMD	2 x 30W CW tones, 5MHz spacing	58			dBc

Note 1: Performance is guaranteed under the conditions listed in this table and over the operating temperature range.

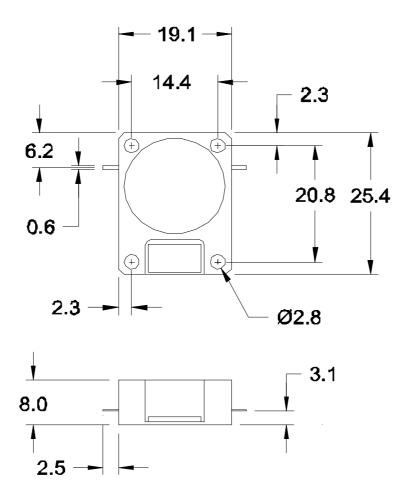
Table 3. Plating Specification

Section	Base Material	Plating
Leads	Copper	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number		
MAFR-000247-000001	TFX-00035-31		

Note 2: See Skyworks Application Note, Intermodulation Distortion Measurements of Ferrites, document number 201537 for further details.



All dimensions in millimeters.

Tolerance: ±0.2mm unless otherwise specified.

Lead thickness is 0.12mm.

Model number, lot code and port designation printed on top side of device.

Figure 2. Package Dimensions

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