

SPECIFICATION SHEET

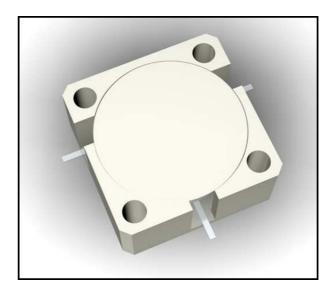
MAFRIN0520: 3400—3600 MHz Single Junction Drop In Circulator

Applications

- RADAR
- Power amplifiers

Features

- Operating frequency range: 3400 to 3600 MHz
- BeO free
- RoHS compliant



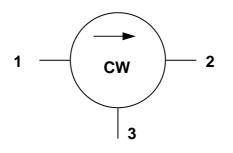


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Мах	Units
Average power	P _{AVG}			200	W
Peak power	Р _{РК}			1000	W
Operating temperature range	T _{OP}		-40	+85	°C
Storage temperature range	TSTOR		-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		3400		3600	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 5W CW tones, 5MHz spacing	60			dBc

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

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

Table 3. Plating Specification

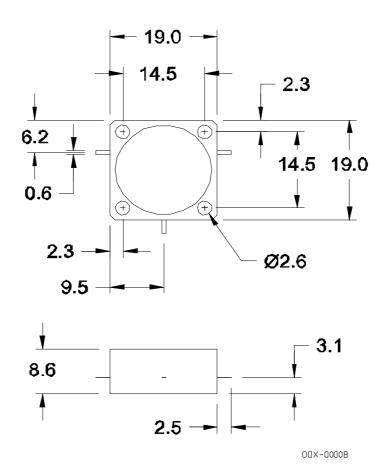
Section	Base Material	Plating
Leads	Copper	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number	
MAFRIN0520	TFX-00034-31	

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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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