

SPECIFICATION SHEET

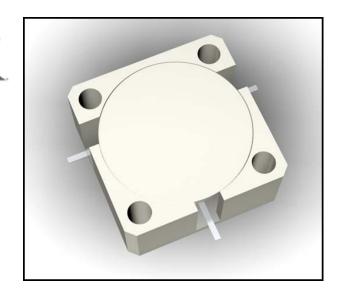
MAFRIN0532: 1805—1880 MHz Single Junction Drop-in Circulator

Applications

• Wireless infrastructure

Features

- Operating frequency range: 1805 to 1880 MHz
- BeO free
- RoHS compliant



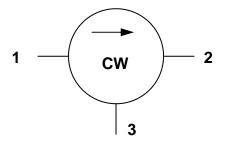


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Мах	Units
Average power	P _{AVG}			200	W
Peak power	Ррк			1000	W
Operating temperature range	T _{OP}		-30	+85	°C
Storage temperature range	TSTOR		-40	+100	°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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Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		1805		1880	MHz
Impedance				50		Ω
Insertion loss	L				0.25	dB
Isolation	ISO	-10°C to +85°C	20			dB
Isolation	ISO	-30°C to –10°C	18			dB
Return loss	RL	-10°C to +85°C	21			dB
Return loss	RL	-30°C to –10°C	19			dB
Intermodulation distortion (Note 2)	IMD	2 x 30W CW tones, 5MHz spacing	75			dBc

Table 2. Electrical Specifications (Note 1)

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

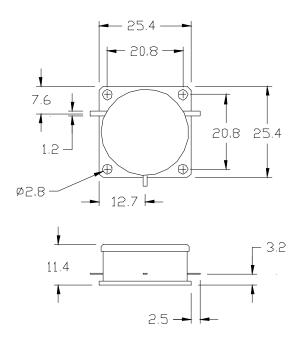
Section	Base Material	Plating		
Leads	Copper	Silver		
Housing	Steel	Silver		

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number		
MAFRIN0532	MAFX-999999-000PPR		

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All dimensions in millimeters. Tolerance: ±0.2mm unless otherwise specified. Coplanarity specification: 0.1mm maximum. Model number, lot code and port designation printed on top side of device.

Figure 2. Package Dimensions

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