

SPECIFICATION SHEET

MAFRIN0533: 1805-1880 MHz Single Junction Drop In Isolator

Applications

- Wireless Infrastructure
- Power amplifiers



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

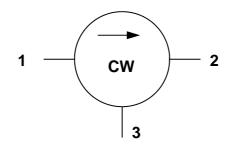


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P _{AVG}			200	W
Peak power	Ррк			1000	W
Reverse power	P _{REV}			100	W
Operating temperature range	T _{OP}		-30	+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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Parameter	Symbol	Test Condition	Min	Typical	Мах	Units
Frequency range	f		1805		1880	MHz
Impedance				50		Ω
Insertion loss	IL				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
Isolation	ISO	-30°C to –10°C	19			dB
Third order IMD	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.

Table 3. Plating Specification

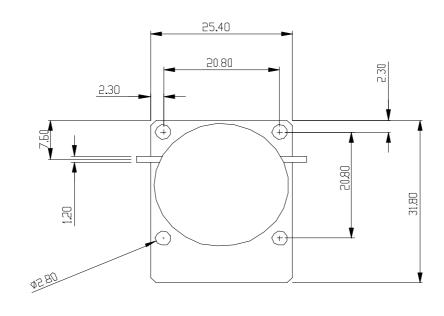
Section	Base Material	Plating
Leads	Copper	Silver
Housing	Steel	Silver

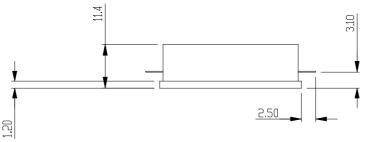
Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number	
MAFRIN-0533	TFX-00037-31	

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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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