

SPECIFICATION SHEET

SKYFR-001079: 1480—1526 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers


Features

- Operating frequency range: 1480 to 1526 MHz
- BeO free
- RoHS compliant

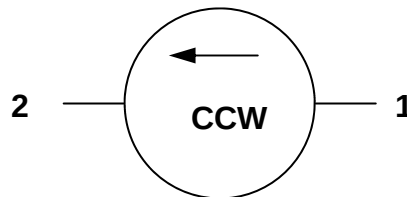


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Input power	P		70	140	W
Peak power	P _{PK}		200	500	W
Reverse power	P	The device will handle reverse power up to 70W	70		W
Operating temperature range	T _{OP}		-25	+90	°C
Storage temperature range	T _{STOR}		-40	+125	°C

Note: The power rating and reliability of the device will not degrade with an operating temperature of up to +100°C. Exceeding any of the other limits listed here may result in permanent damage to the device or may reduce device reliability.

Table 2. Electrical Specifications (Note 1)

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		1480		1526	MHz
Impedance				50		Ω
Insertion loss	IL	1495.9 MHz— 1510.9 MHz			0.20	dB
Insertion loss	IL	1480MHz—1526MHz			0.25	dB
Insertion loss ripple	IL	Peak to peak			0.10	dB
Isolation	ISO		25			dB
Return loss	RL		25			dB
Intermodulation distortion (Note 2)	IMD	2 x 10W CW tones, 1MHz spacing	74			dBc
Phase flatness vs frequency		Peak to peak			0.15	degree
Harmonic product generation		With 30W CW tone at port 1			-55	dBc
Out of band attenuation		@ 2nd harmonics	20			dB
Out of band attenuation		@ 3rd harmonics	TBC			dB

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

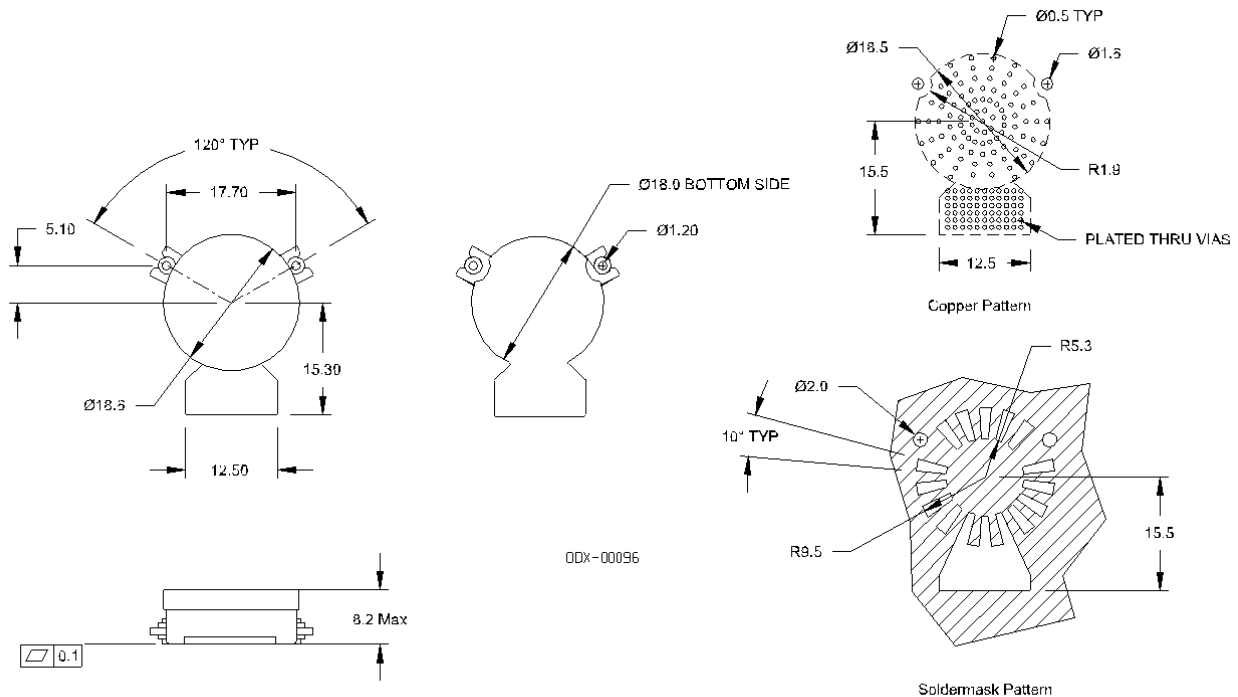
Note 2: See Skyworks Application Note, *Intermodulation Distortion Measurements of Ferrites*, document number 201537 for further details.

Table 3. Plating Specification

Section	Base Material	Plating
Lead	Bronze	Gold
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number
SKYFR-001079	MAFX-999999-000PPR



All dimensions in millimeters.

Tolerance: $\pm 0.2\text{mm}$ unless otherwise specified.

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

Figure 2. Package Dimensions

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