

SKYFR-001303: 2620—2690 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers

Features

- Operating frequency range: 2620 to 2690 MHz
- BeO free
- RoHS compliant

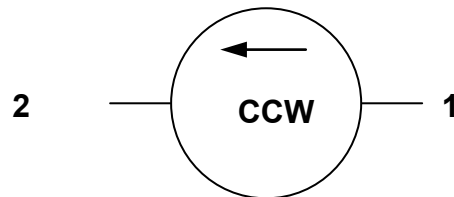


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power, forward	P_{AVG}			40	W
Peak power, forward	P_{PK}			150	W
Average power, reverse	P_{REV}	No time limit		30	W
Operating temperature range	T_{OP}		-40	+105	°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 +110°C. Exceeding +110°C or 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		2620		2690	MHz
Impedance				50		Ω
Insertion loss	IL				0.30	dB
Insertion loss ripple	IL	Peak to peak			0.10	dB
Isolation	ISO		23			dB
Return loss	RL	Port 1	23			dB
Phase flatness		Peak to peak			0.5	degree
Intermodulation Distortion	IMD	2 x 15W CW tones, 1 MHz spacing	60			dBc
Harmonics					-45	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.

Note 3: Test fixture PCB: Rogers 4350B, 0.5mm thick, 50 Ω line width of 1.1mm.

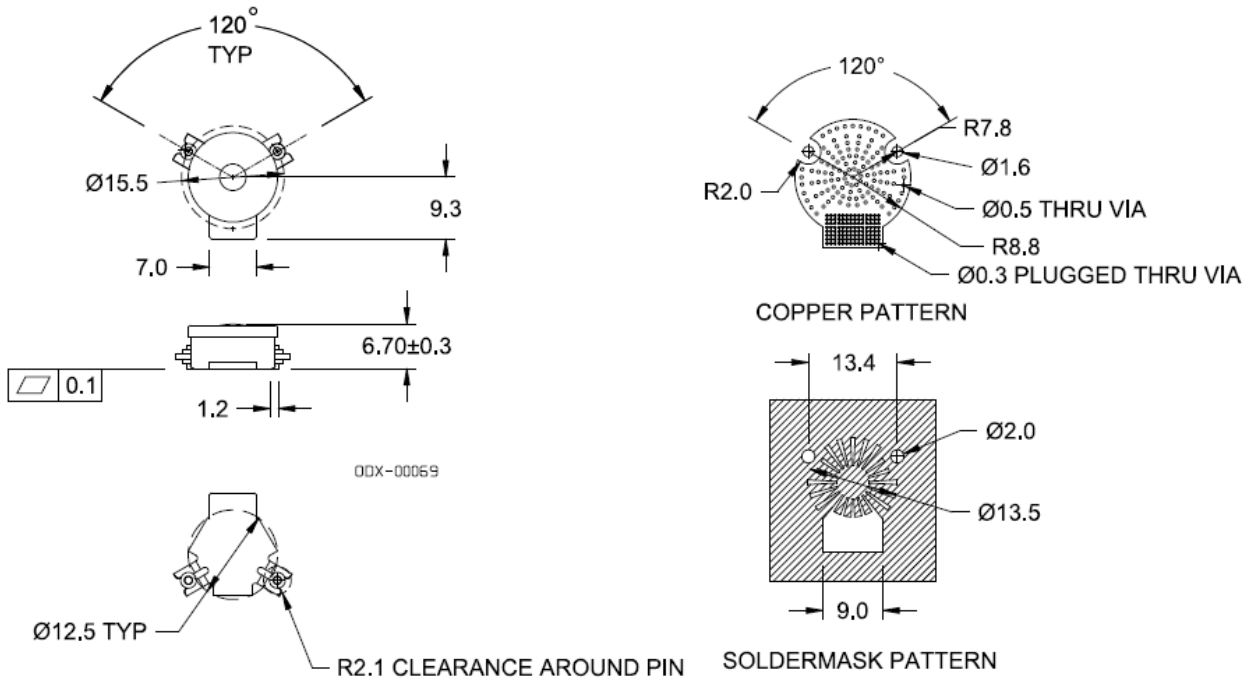
Table 3. Plating Specification

Section	Base Material	Plating
Leads	Bronze	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Alternative Part Number
SKYFR-001303	TFX-00167 (PCB-00096)

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All dimensions in millimeters.
 Tolerance: $\pm 0.2\text{mm}$ unless otherwise specified.
 Model number, lot code and part designation printed on top side of device.

Figure 2. Package Dimensions

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