

SPECIFICATION SHEET

SKYFR-001352: 2110—2200 MHz Single Junction Robust **Lead Isolator**

Features

• BeO free • RoHS compliant

• Operating frequency range: 2110 to 2200 MHz

Applications

- Wireless infrastructure
- Power amplifiers



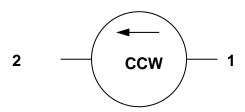


Figure 1. Block Diagram

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		2110		2200	MHz
Impedance				50		Ω
Insertion loss	IL				0.25	dB
Insertion loss ripple	IL	Peak to peak			0.10	dB
Isolation	ISO		23			dB
Return loss	RL	Port 1	24			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.

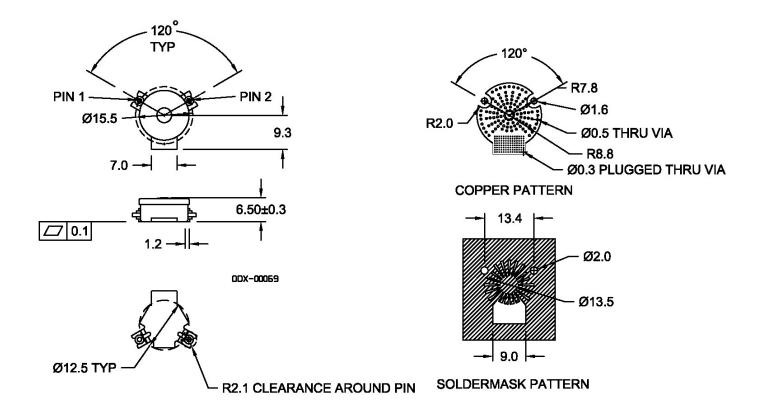
Table 3. Plating Specification

Section	Base Material	Plating
Leads	Bronze	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Alternative Part Number
SKYFR-001352	TFX-00167 (PCB-00096)

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, 50Ω line width of 1.1mm.



All dimensions in millimeters.

Tolerance: ±0.2mm unless otherwise specified.

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

Figure 2. Package Dimensions

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