

SPECIFICATION SHEET

SKYFR-001436: 1805—1880 MHz Single Junction Robust Lead Isolator

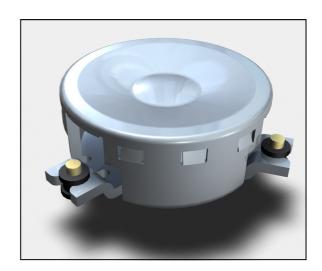
Applications

- Wireless infrastructure
- Power amplifiers



Features

- Small surface mount package
- Operating frequency range: 1805 to 1880 MHz
- BeO free
- RoHS compliant
- Tape & Reel



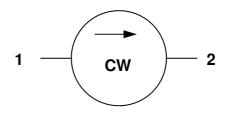


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P _{AVG}			20	W
Average power, reverse	P _{REV}			20	W
Peak power	P _{PK}			100	W
Operating temperature range	T _{OP}		-40	+125	°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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Table 2. Electrical Specifications (Note 1)

0Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		1805		1880	MHz
Impedance				50		Ω
Insertion loss	IL				0.3	dB
Isolation	ISO	-10°C to +125°C	20			dB
Isolation	ISO	-40°C to -10°C	18			dB
Return loss	RL	.10°C to +125°C	20			dB
Return loss	ISO	-40°C to -10°C	18			dB
Group delay					2.0	ns
Intermodulation distortion (Note 2)	IMD	2 x 5W CW tones, 1MHz spacing	60	65		dBc

Table 3. Plating Specification

Section	Base Material	Plating
Pins	Brass	Silver
Housing	Steel	Silver

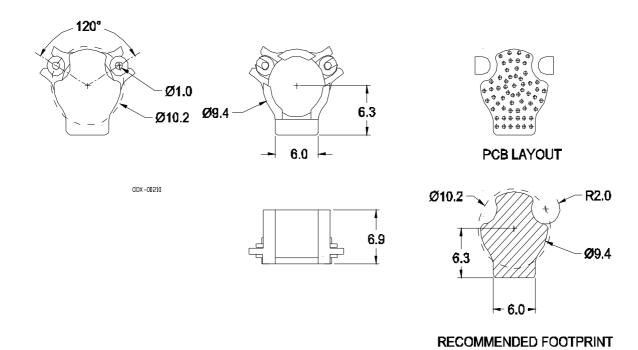
Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number		
SKYFR-001436	TFX-00118		

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: Part tested on PCB-00167, 0.508mm Rogers RO4350B, trace width 1.07mm wide, 1oz copper.



All dimensions in millimeters.
Tolerance: ±0.2mm unless otherwise specified.
Coplanarity specification: 0.1mm maximum.

Figure 2. Package Dimensions and Recommended PCB Layout

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