

SPECIFICATION SHEET

SKYFR-001471: 859—894 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers

Features

- Surface mount package
- Operating frequency range: 859 to 894 MHz
- BeO free
- RoHS compliant
- Shipped in Tape & Reel

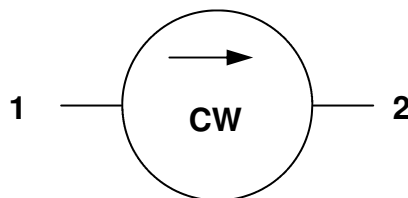
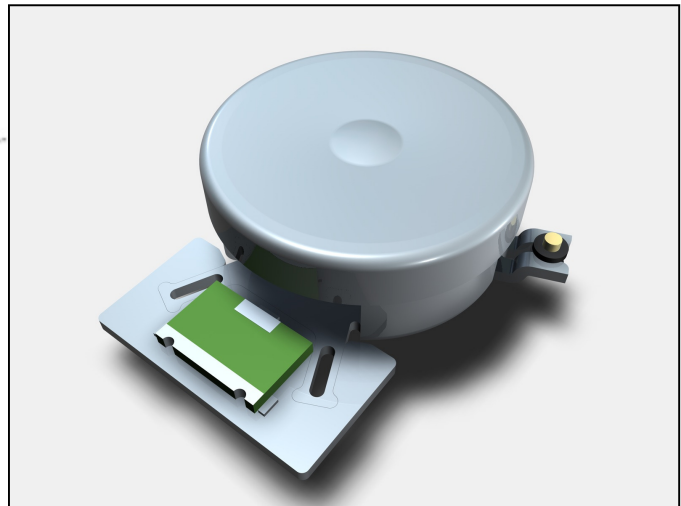


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P_{AVG}			122	W
Reverse power	P_{REV}	1 minute @105°C		105	W
Peak power	P_{PK}			800	W
Operating temperature range	T_{OP}		-40	+105	°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.

Table 2. Electrical Specifications (Note 1)

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		859		894	MHz
Impedance				50		Ω
Insertion loss	IL				0.25	dB
Insertion loss variation	IL	Over temperature			0.10	dB
Isolation	ISO		23			dB
Return loss	RL		24			dB
Intermodulation distortion (Note 2)	IMD	2 x 61W CW tones, 5MHz spacing	72			dBc
Harmonic products					-60	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 3006, 25mils, 50 Ohm line 0.90mm .

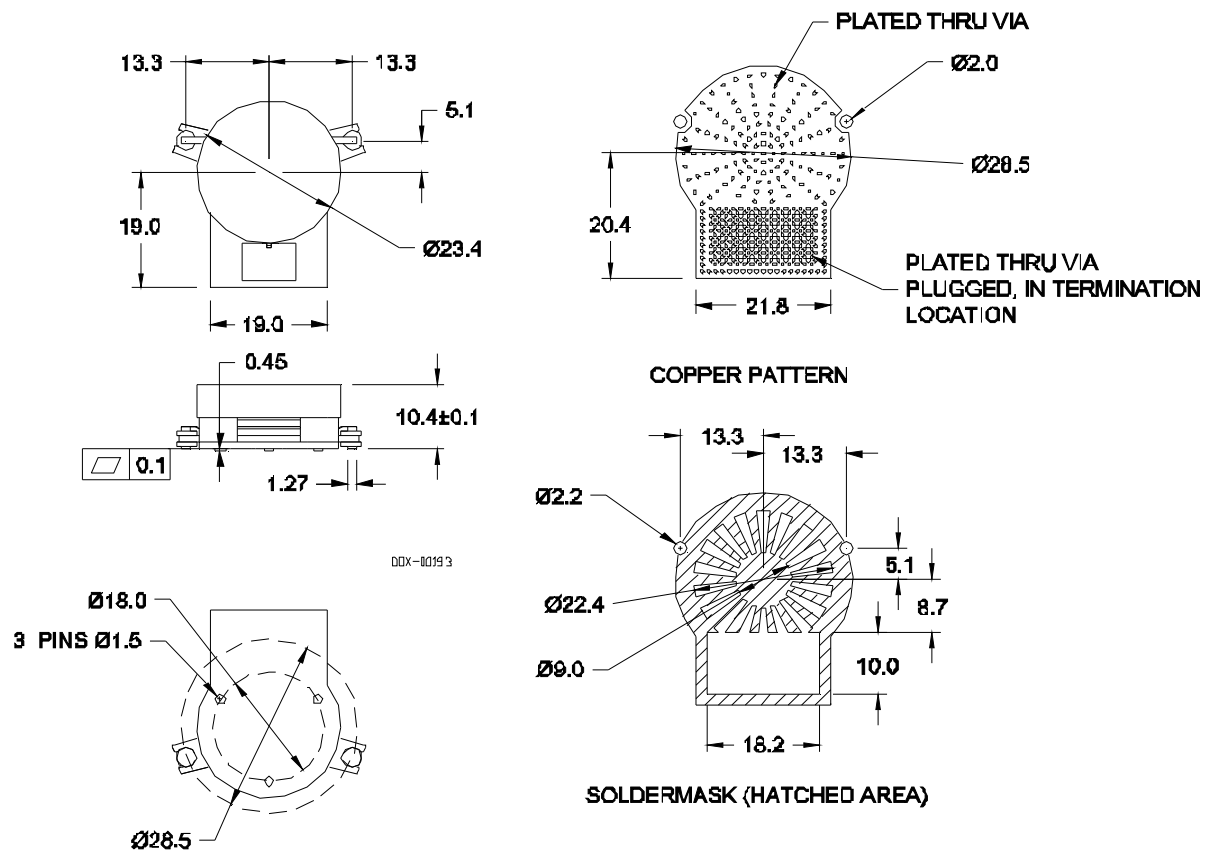
Table 3. Plating Specification

Section	Base Material	Plating
Pins	Brass	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number
SKYFR-001471	TBA

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All dimensions in millimeters.

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

Coplanarity specification: 0.1mm maximum.

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

Figure 2. Package Dimensions and Recommended PCB Layout

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