

SPECIFICATION SHEET

SKYFR-000904: 773—803 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers

Features

- Small surface mount package
- Operating frequency range: 773 to 803 MHz
- BeO free
- RoHS compliant

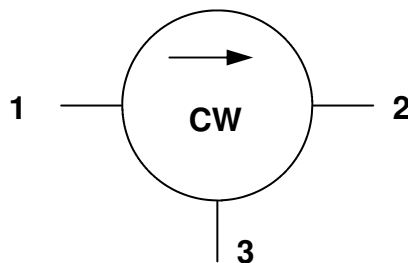
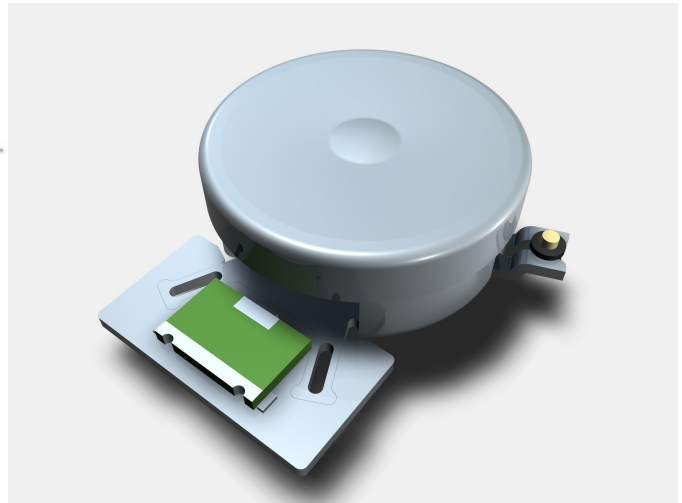


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P_{AVG}			200	W
Reverse power	P_{REV}			100	W
Peak power	P_{PK}			500	W
Operating temperature range	T_{OP}		-40	+100	°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		773		803	MHz
Impedance				50		Ω
Insertion loss	IL				0.25	dB
Insertion loss ripple		Peak to peak			0.10	dB
Isolation	ISO		20			dB
Return loss	RL	Port 1 and 2, 773MHz—803MHz	20			dB
Return loss	RL	Port 1, 758MHz—818MHz	18			dB
Phase flatness					0.2	Degree
Harmonics		100W @ port 1			-59	dBc
Intermodulation distortion (Note 2)	IMD	2 x 31W CW tones, 5MHz spacing	74			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.

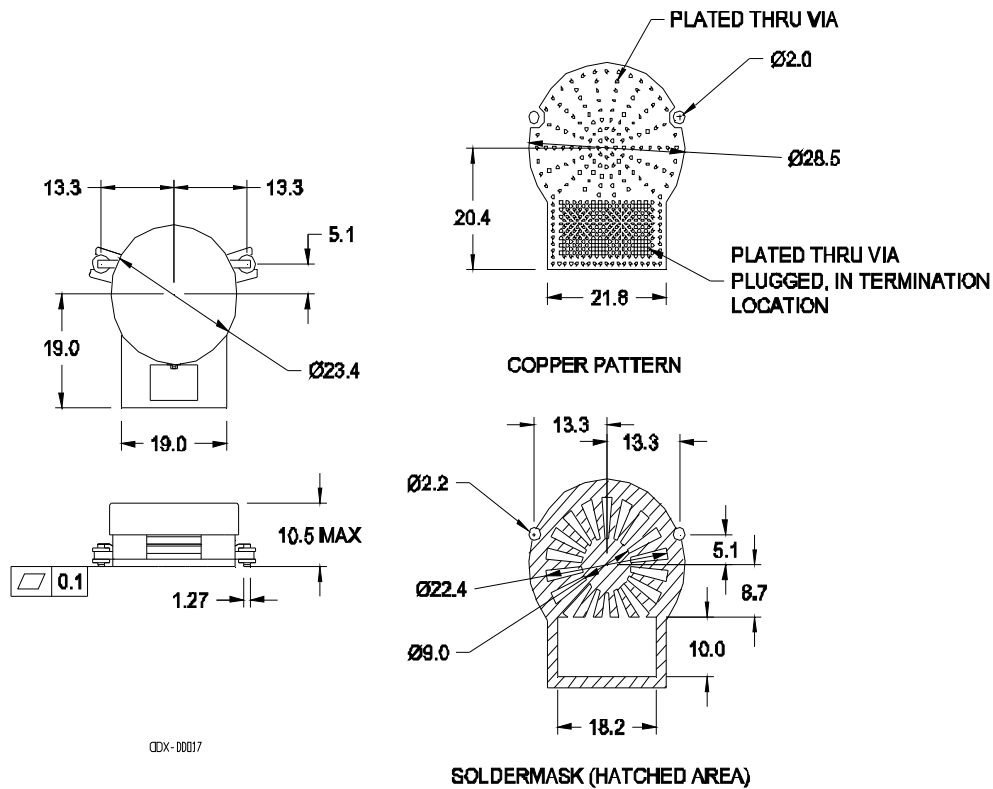
Note 3: Test fixture PCB material is RO3006, 0.65mm thick, with a 50 Ω line width of 0.9mm.

Table 3. Plating Specification

Section	Base Material	Plating
Pins	Bronze	Gold
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number
SKYFR-000904	TBA



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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