

SPECIFICATION SHEET

SKYFR-000892: 2400—2500 MHz Single Junction Robust Lead Circulator

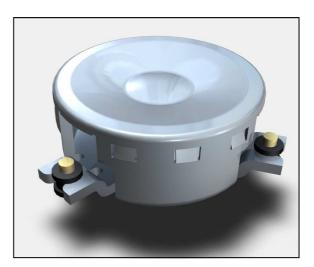
Applications

- Wireless infrastructure
- Power amplifiers



Features

- Small surface mount package
- Operating frequency range: 2400 to 2500 MHz
- BeO free
- RoHS compliant
- Tape & Reel



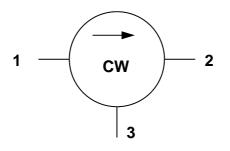


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Мах	Units
Average power	P _{AVG}			80	W
Peak power	Р _{РК}			500	W
Operating temperature range	T _{OP}		-40	+85	°C
Storage temperature range	TSTOR		-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)

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		2400		2500	MHz
Impedance				50		Ω
Insertion loss	IL			0.25	0.30	dB
Isolation	ISO		23			dB
Return loss	RL		21			dB
Intermodulation distortion (Note 2)	IMD	2 x 25W CW tones, 5MHz spacing	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.

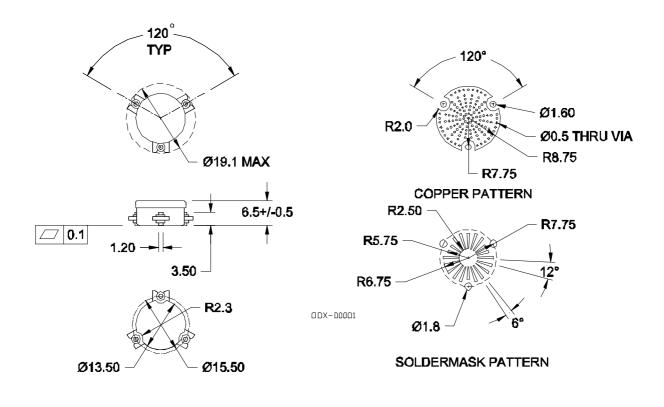
Table 3. Plating Specification

Section	Base Material	Plating
Pins	Bronze	Gold
Housing	Steel	Silver

Table 4. Ordering Information

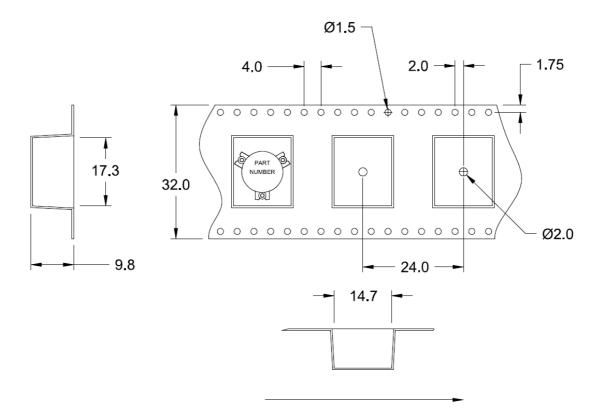
Manufacturing Part Number	Evaluation Board Part Number	
SKYFR-000892	MAFX-000015-RL00FR	

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All dimensions in millimeters. Tolerance: ±0.2mm 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



DIRECTION OF FEED

All dimensions in millimeters. Tolerance: ±0.2mm unless otherwise specified. Carrier tape: Black conductive polycarbonate or polystyrene. Reel size: 13" Quantity per reel: 200

Figure 3. Tape and Reel Dimensions

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