

SPECIFICATION SHEET

# SKYFR-001188: 728—768 MHz Single Junction Robust Lead Circulator

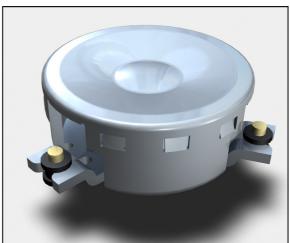
# Applications

- Wireless infrastructure
- Power amplifiers



## Features

- Small surface mount package
- Operating frequency range: 728 to 768 MHz
- BeO free
- RoHS compliant



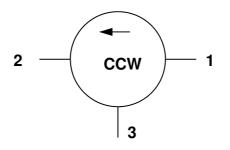


Figure 1. Block Diagram

#### Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Мах	Units
Average power	Pavg			200	W
Peak power	Р <sub>РК</sub>			500	W
Operating temperature range	T <sub>OP</sub>		-40	+105	°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	Мах	Units
Frequency range	f		728		768	MHz
Impedance				50		Ω
Insertion loss	IL				0.30	dB
Isolation	ISO		20			dB
Return loss	RL		20			dB
Intermodulation distortion (Note 2)	IMD	2 x 2W CW tones, 1MHz spacing	70			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**

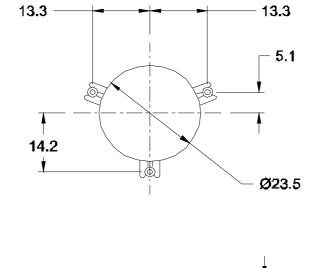
Section	Base Material	Plating
Pins	Bronze	Gold
Housing	Steel	Silver

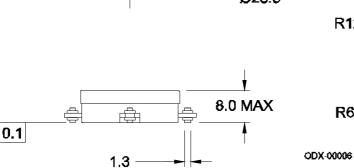
#### Table 4. Ordering Information

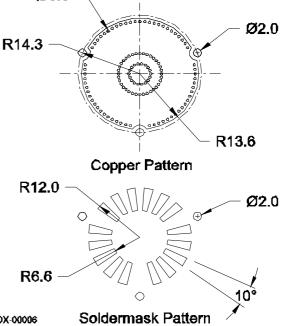
Manufacturing Part Number	Evaluation Board Part Number	
SKYFR-001188	MAFX-000025-RL00FR	

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Ø0.6

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

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