

SPECIFICATION SHEET

SKYFR-001073: 2496—2690 MHz Single Junction Robust Lead Circulator

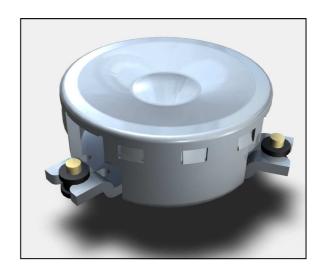
Applications

- Wireless infrastructure
- Power amplifiers



Features

- Small surface mount package
- Operating frequency range: 2496 to 2690 MHz
- BeO free
- RoHS compliant



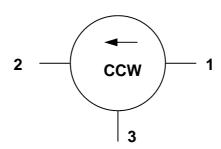


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P _{AVG}			140	W
Peak power	P _{PK}			500	W
Operating temperature range	T _{OP}		-40	+85	°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)

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		2496		2690	MHz
Impedance				50		Ω
Insertion loss	IL				0.25	dB
Isolation	ISO		25			dB
Return loss	RL		25			dB
Intermodulation distortion (Note 2)	IMD	2 x 30W CW tones, 5MHz spacing	-65			dBc

Table 3. Plating Specification

Section	Base Material	Plating
Pins	Brass	Gold
Housing	Steel	Silver

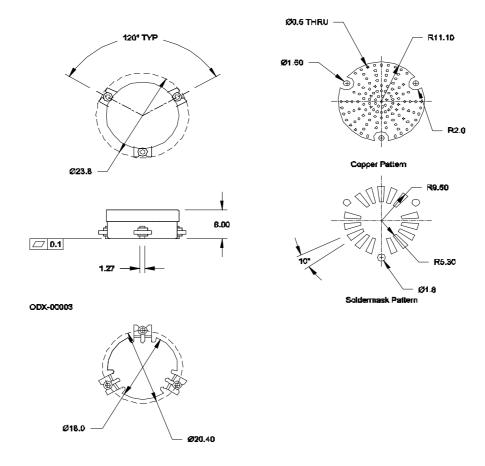
Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number
SKYFR-001073	MAFX-000020-RL00FR

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.

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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

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