

SPECIFICATION SHEET

# SKYFR-001026: 1805—1880 MHz Single Junction Robust Lead Circulator

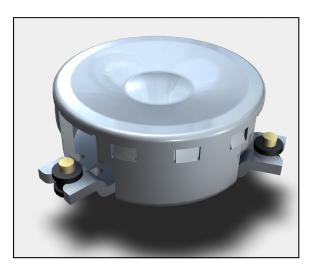
# Applications

- Wireless infrastructure
- Power amplifiers



## Features

- Very small surface mount package
- Operating frequency range: 1805 to 1880 MHz
- BeO free
- RoHS compliant
- Tape & Reel



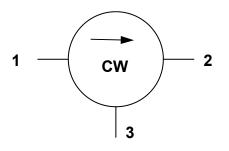


Figure 1. Block Diagram

#### Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Мах	Units
Average power	P <sub>AVG</sub>			50	W
Peak power	Ррк			200	W
Operating temperature range	T <sub>OP</sub>		-40	+100	°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		1805		1880	MHz
Impedance				50		Ω
Insertion loss	IL			0.25	0.35	dB
Isolation	ISO		19	22		dB
Return loss	RL		18	21		dB
Group Delay					2.0	ns
Group delay variation					0.5	ns
Intermodulation distortion (Note 2)	IMD	2 x 15W CW tones, 5MHz spacing	55	58		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**

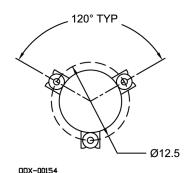
Section	Base Material	Plating
Pins	Brass	Silver
Housing	Steel	Silver

## **Table 4. Ordering Information**

Manufacturing Part Number	Evaluation Board Part Number		
SKYFR-001026	ТВА		

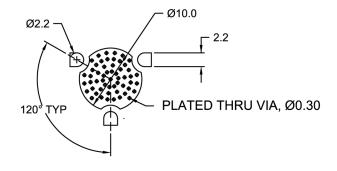
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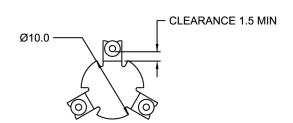


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1.0



**RECOMMENDED FOOTPRINT** 



7.0 MAX

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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