

SPECIFICATION SHEET

SKYFR-001140: 1800—2200 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers

Features

- Operating frequency range: 1800 to 2200 MHz
- BeO free
- RoHS compliant

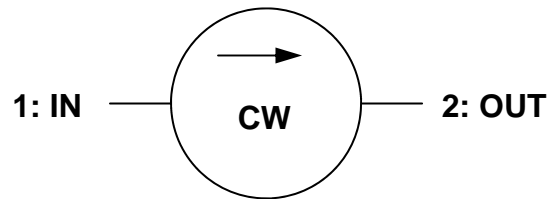


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power, forward	P_{AVG}			20	W
Peak power, forward	P_{PK}			120	W
Average power, reverse	P_{REV}	No time limit		4	W
Operating temperature range	T_{OP}		-40	+120	°C
Storage temperature range	T_{STOR}		-40	+125	°C

Note: The power rating and reliability of the device will not degrade with an operating temperature of up to +120°C. Exceeding +120°C or any of the limits listed here may result in permanent damage to the device or may reduce device reliability.

SPECIFICATION SHEET • SKYFR-001140**Table 2. Electrical Specifications (Note 1)**

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		1800		2200	MHz
Impedance				50		Ω
Insertion loss	IL			0.25	0.50	dB
Isolation	ISO		18	20		dB
Return loss	RL		18	20		dB
Intermodulation Distortion	IMD	2 x 15W CW tones, 5MHz spacing		55		dBc

Note 1: Performance is guaranteed under the conditions listed in this table and over the operating temperature range.

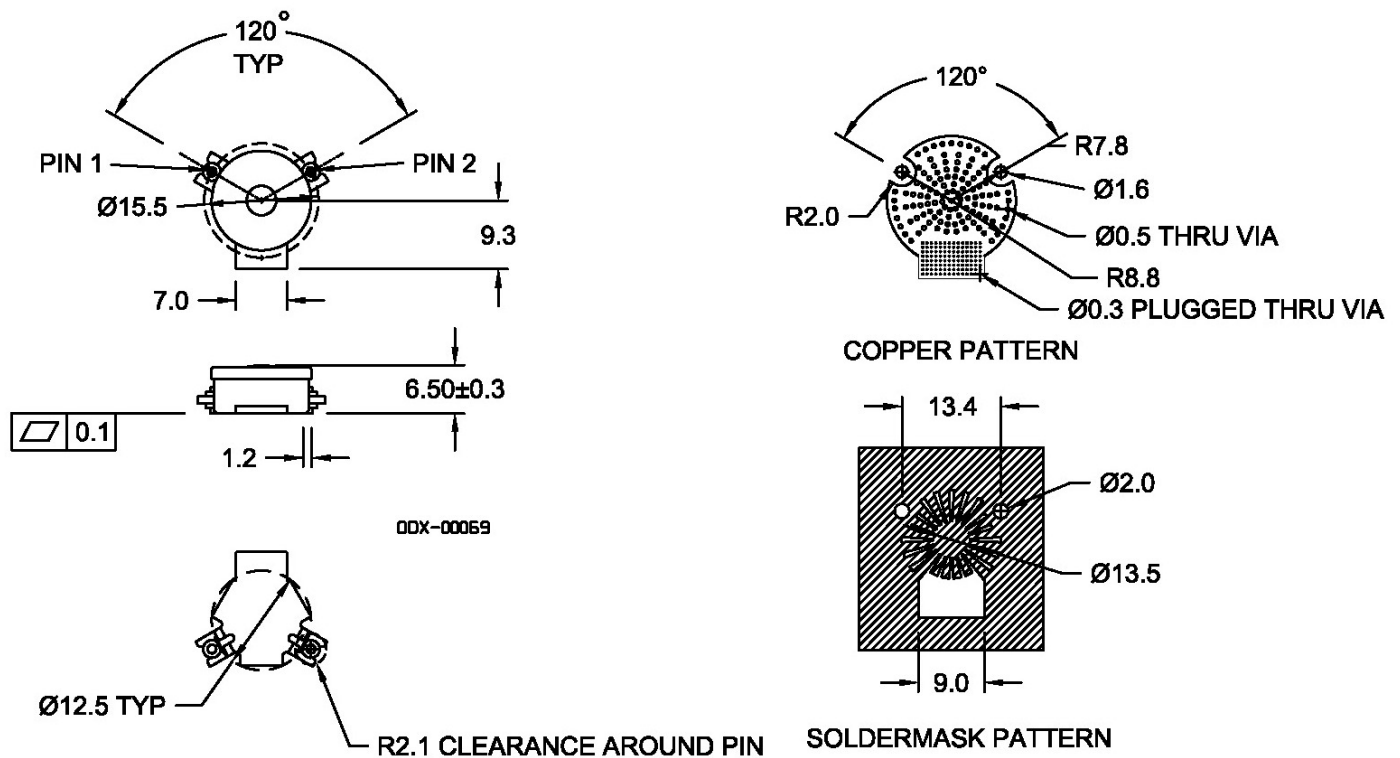
Note 2: See Skyworks Application Note, *Intermodulation Distortion Measurements of Ferrites*, document number 201537 for further details.

Table 3. Plating Specification

Section	Base Material	Plating
Leads	Bronze	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Text Fixture
SKYFR-001140	N/A



All dimensions in millimeters.

Tolerance: $\pm 0.2\text{mm}$ unless otherwise specified.

Model number, lot code and part designation printed on top side of device.

Figure 2. Package Dimensions

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