

SPECIFICATION SHEET

SKYFR-001080: 2070—2210 MHz Single Junction Robust Lead Isolator

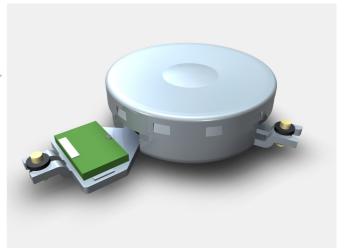
Applications

- Wireless infrastructure
- Power amplifiers



Features

- Surface mount package
- Operating frequency range: 2070 to 2210 MHz
- BeO free
- RoHS compliant
- Shipped in Tape & Reel



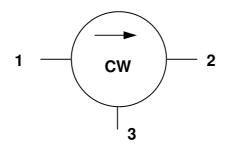


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power	P _{AVG}			50	W
Reverse power	P _{REV}			50	W
Peak power	P _{PK}			300	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		2070		2210	MHz
Impedance				50		Ω
Insertion loss	IL	Port 1 to port 2			0.35	dB
Isolation	ISO	Port 2 to port 1	22			dB
Return loss	RL	Port 1 and 2	22			dB
Return loss	RL	Port 3	16			dB
Attenuation		Port 3	28	30	32	dB
Harmonics		2 x fo			-5	dB
Harmonics		3 x fo, 5 x fo			-7	dB
Out of band attenuation		2 x f, 3 x f	10			dB
Out of band attenuation		nxf	5			dB
Group delay			0.5		2.8	ns
Group delay variation					±0.05	ns
Intermodulation distortion (Note 2)	IMD	2 x 22W CW tones, 5MHz spacing	76			dBc

Table 3. Plating Specification

Section	Base Material	Plating
Pins	Brass	Gold
Housing	Steel	Silver

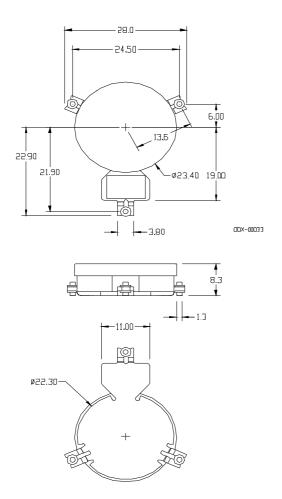
Table 4. Ordering Information

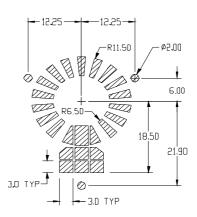
Manufacturing Part Number	Alternative Part Number	
SKYFR-001080	UNH 102 3043/07	

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

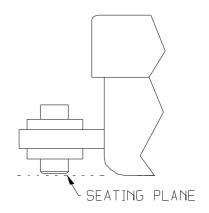
Note 2: See Skyworks Application Note, Intermodulation Distortion Measurements of Ferrites, document number 201537 for further details.

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SOLDER PATTERN NOTE: Use plated thru vias (Ø0.3) under unit for heat dissipation.



All dimensions in millimeters.

Tolerance: ±0.2mm unless otherwise specified.

Coplanarity specification: 0.1mm maximum.

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

Figure 2. Package Dimensions and Recommended PCB Layout

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