

SPECIFICATION SHEET

SKYFR-000918: 2070—2210 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers



Features

- Operating frequency range: 2070 to 2210 MHz
- BeO free
- RoHS compliant

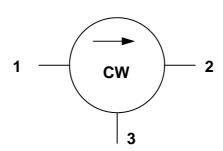


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power, forward	P _{AVG}			10	W
Peak power, forward	P _{PK}			60	W
Average power, reverse	P _{REV}	Max duration, 60 seconds		5	W
Average power, reverse	P _{REV}	No time limit		4	W
Operating temperature range	T _{OP}		-40	+85	°C
Storage temperature range	T _{STOR}		-40	+100	°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				0.50	dB
Isolation	ISO		18			dB
Return loss	RL	Port 1 and Port 2	20			dB
Return loss	RL	Port 3	16			dB
Attenuation		Port 2 to Port 3	18	20	22	dB
Intermodulation distortion (Note 2)	IMD	2 x 4W CW tones, 5MHz spacing			-76	dBc
Harmonics		2 x f _o , 10W CW			-5	dBm
Harmonics		3-5 x f _o , 10W CW			-7	dBm
Out of band attenuation Port 1 to Port 2		2 x f ₀	10			dB
Out of band attenuation Port 1 to Port 2		3 x f _o	10			dB
Out of band attenuation Port 1 to Port 2		n x f _o	5			dB
Group delay		Within frequency range	0.5		2.8	ns
Deviation from nominal delay over temperature range		Measured with fixed frequency			± 0.2	ns

Table 3. Plating Specification

Section	Base Material	Plating
Leads	Bronze	Gold
Housing	Steel	Nickel

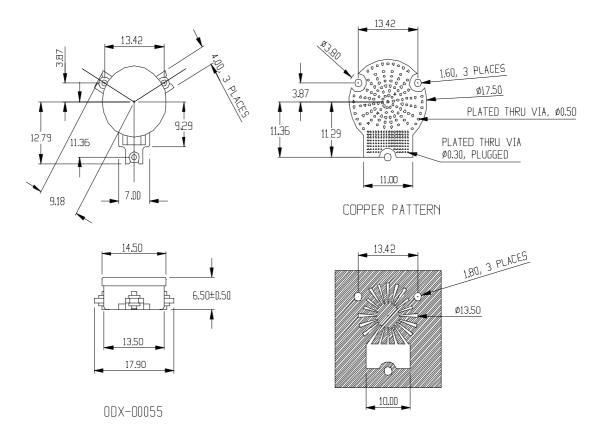
Table 4. Ordering Information

Manufacturing Part Number	Alternative Part Number	
SKYFR-000918	UNH102 3122/01	

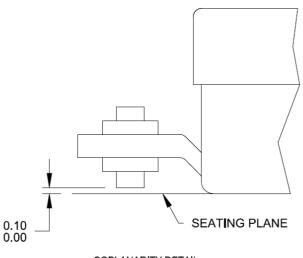
Note 1: Performance is guaranteed under the conditions listed in this table and over the operating temperature range.

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

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SOLDERMASK (HATCHED AREA)



COPLANARITY DETAIL

All dimensions in millimeters.

Tolerance: ±0.2mm unless otherwise specified.

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

Figure 2. Package Dimensions

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