

SPECIFICATION SHEET

SKYFR-000800: 1890—2030 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers

Features

- Operating frequency range: 1890 to 2030 MHz
- BeO free
- RoHS compliant



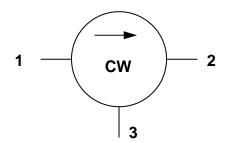


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Мах	Units
Average power, forward	P _{AVG}			50	W
Peak power, forward	Р _{РК}			300	W
Average power, reverse	P _{REV}			50	W
Operating temperature range	T _{OP}		-40	+85	°C
Storage temperature range	TSTOR		-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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Parameter	Symbol	Test Condition	Min	Typical	Мах	Units
Frequency range	f		1890		2030	MHz
Impedance				50		Ω
Insertion loss	IL				0.35	dB
Isolation	ISO		22			dB
Return loss	RL	Port 1 and Port 2	22			dB
Return loss	RL	Port 3	16			dB
Attenuation		Port 2 to Port 3	28	30	32	dB
Intermodulation distortion (Note 2)	IMD	2 x 22W CW tones, 5MHz spacing			-76	dBc
Harmonics		2 x f _o , 50W CW			-5	dBm
Harmonics		3-5 x f _o , 50W CW			-7	dBm
Out of band attenuation Port 1 to Port 2		2 x fo	10			dB
Out of band attenuation Port 1 to Port 2		3 x fo	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			± 0.05	ns

Table 2. Electrical Specifications (Note 1)

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.

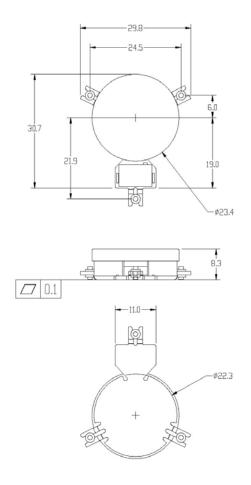
Table 3. Plating Specification

Section	Base Material	Plating
Pins	Bronze	Silver
Housing	Steel	Silver

Table 4. Ordering Information

Manufacturing Part Number	Evaluation Board Part Number	
SKYFR-000800	TFX-00056	

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0DX-00033

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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