

SPECIFICATION SHEET

SKYFR-000923: 2620—2690 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers

Features

- Operating frequency range: 2620 to 2690 MHz
- BeO free
- RoHS compliant



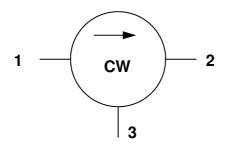


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Average power, forward	P _{AVG}			50	W
Peak power, forward	Ррк			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	Max	Units
Frequency range	f		2620		2690	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 f _o	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 f₀	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

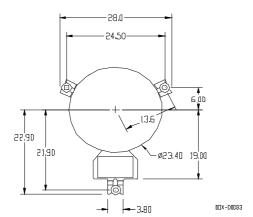
Section	Base Material	Plating
Leads	Bronze	Gold
Housing	Steel	Silver

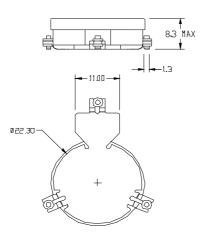
Table 4. Ordering Information

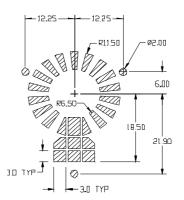
Manufacturing Part Number	Evaluation Board Part Number	
SKYFR-000923	TFX-00049	

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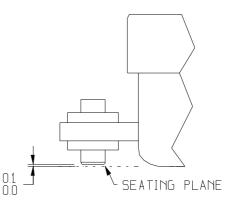
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SOLDER PATTERN NOTE: Use plated thru vias (20.3) under unit for heat dissipation.



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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