

SPECIFICATION SHEET

SKYFR-001291: 2110—2180 MHz Single Junction Robust Lead Isolator

Applications

- Wireless infrastructure
- Power amplifiers



Features

- Operating frequency range: 2110 to 2180 MHz
- BeO free
- RoHS compliant

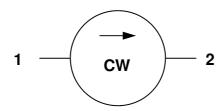


Figure 1. Block Diagram

Table 1. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Max	Units
Input power	Р			150	W
Peak power	P _{PK}			1000	W
Reverse power	Р	The device will handle reverse power up to 60W		60	W
Operating temperature range	T _{OP}		-40	+95	°C
Storage temperature range	T _{STOR}		-55	+125	°C

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

SPECIFICATION SHEET • SKYFR-001291

Table 2. Electrical Specifications (Note 1)

Parameter	Symbol	Test Condition	Min	Typical	Max	Units
Frequency range	f		2110		2180	MHz
Impedance				50		Ω
Input impedance, real			46.5		53.5	Ω
Input impedance, imaginary			-j4.5		+j4.5	Ω
Insertion loss	IL				0.15	dB
Isolation	ISO		26			dB
Isolation	ISO	1926MHz—2364MHz	16			dB
Return loss, input	RL		25			dB
Return loss, output	RL		23			dB
Intermodulation distortion (Note 2)	IMD	2 x 65W CW tones, 1MHz spacing	70			dBc
Group Delay		1926MHz—2354MHz			2.0	ns
Group Delay variation		2110MHz—2170MHz			0.5	ns
Group Delay variation		1926MHz—2354MHz			2.0	ns
Resonance frequency			2380		1910	MHz

Table 3. Plating Specification

Section	Base Material	Plating
Pins	Brass	Silver
Housing	Steel	Silver

Table 4. Ordering Information

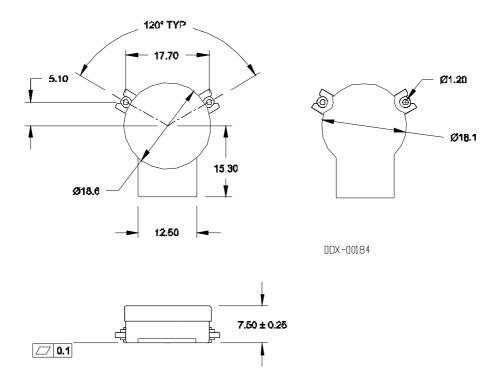
Manufacturing Part Number	Evaluation Board Part Number		
SKYFR-001291	PCB-00134		

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.

Note 3: Performance will not degrade by >12% with an operating temperature of +120°C.

Note 4: The power rating and reliability of the device will not degrade with an operating temperature of +120°C.



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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