

Package: Drop-in, 0.75in x 0.75in

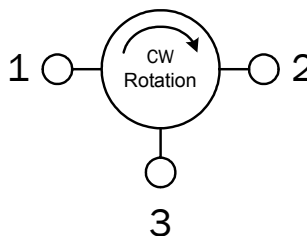


Features

- Typical Insertion Loss Less than 0.2dB
- -70dBc IMD Minimum
- Isolation Greater than 23dB
- 200W Forward and Reverse Power Rating
- Industry Standard 0.75in x 0.75in Drop-in Package

Applications

- Wireless Infrastructure Systems: AWS band (3G, 4G), LTE.



Functional Block Diagram

Product Description

The RFCR2711 is a small profile, low cost drop-in circulator designed for various wireless applications. The circulator features a robust construction for high reliability, low insertion loss, excellent IMD (Inter-Modulation Distortion) performance, and magnetically shield. The circulator is RoHS compliant.

The RFCR2711 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2711 2110MHz to 2170MHz Single Junction Drop-In Circulator
RFCR2711PCBA-41X Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

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|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input type="checkbox"/> GaAs pHEMT | <input type="checkbox"/> GaN HEMT |
| <input type="checkbox"/> GaAs MESFET | <input type="checkbox"/> Si BiCMOS | <input type="checkbox"/> Si CMOS | <input type="checkbox"/> BiFET HBT |
| <input type="checkbox"/> InGaP HBT | <input type="checkbox"/> SiGe HBT | <input type="checkbox"/> Si BJT | <input type="checkbox"/> LDMOS |

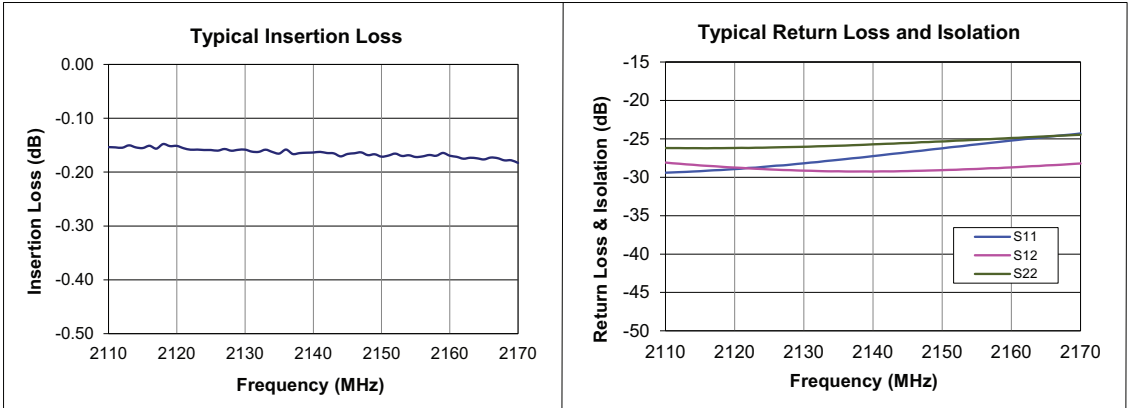
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Absolute Maximum Ratings

Parameter	Rating	Unit
Forward Power (Peak/Average)	1000/200	W
Reverse Power	200	W
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +95	°C

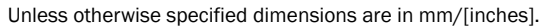
Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					
Frequency Range	2110		2170	MHz	
Insertion Loss		<0.20	0.30	dB	
Isolation	21	>23		dB	
Return Loss	21	>23		dB	
IMD	>70			dBc	2Tx37.0Watts

Note: Typical values represent Mid-band performance at 25 °C



Pin	Name	Description
1	INPUT	
2	OUTPUT	
3	TERMINATED	

Dimensions in millimeters (inches)



Fractions	Decimals	Angles
\pm	$.x\pm .3 [.01]$	$\pm 0.5^\circ$
	$.xx\pm .13 [.005]$	