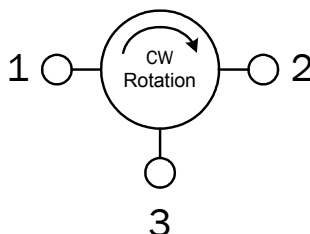


Features

- Typical Insertion Loss Less than 0.2dB
- -75dBc IMD Typical
- Isolation Greater than 26dB
- 150W Forward and Reverse Rating
- Industry Standard 0.75in x 0.75in Drop-in Package

Applications

- Wireless Infrastructure Systems: LTE Network



Functional Block Diagram

Product Description

The RFCR2601 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 shielded. The circulator is RoHS compliant.

The RFCR2601 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2601 1880MHz to 1920MHz Single Junction Drop-In Circulator
RFCR2601PCBA-41X Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

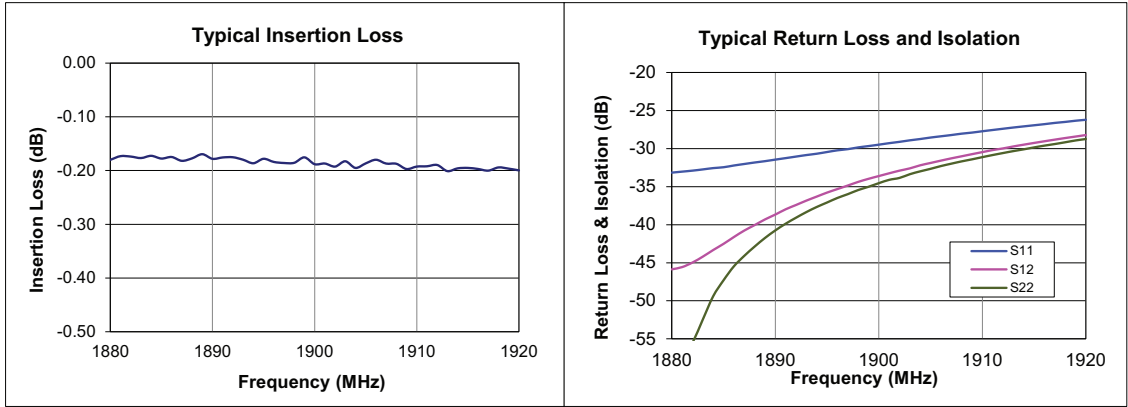
- | | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input type="checkbox"/> GaAs pHEMT | <input type="checkbox"/> 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 |

Absolute Maximum Ratings

Parameter	Rating	Unit
Forward Power (Peak/Average)	150	W
Reverse Power	100	W
Operating Temperature	-40 to +125	°C
Storage Temperature	-40 to +125	°C

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					
Frequency Range	1880		1920	MHz	
Insertion Loss		<0.20	0.25	dB	
Isolation	20	>26		dB	
Return Loss	20	>26		dB	
Forward IMD		-75	-70	dBc	2T at 37.5 Watts per T 5MHz spacing

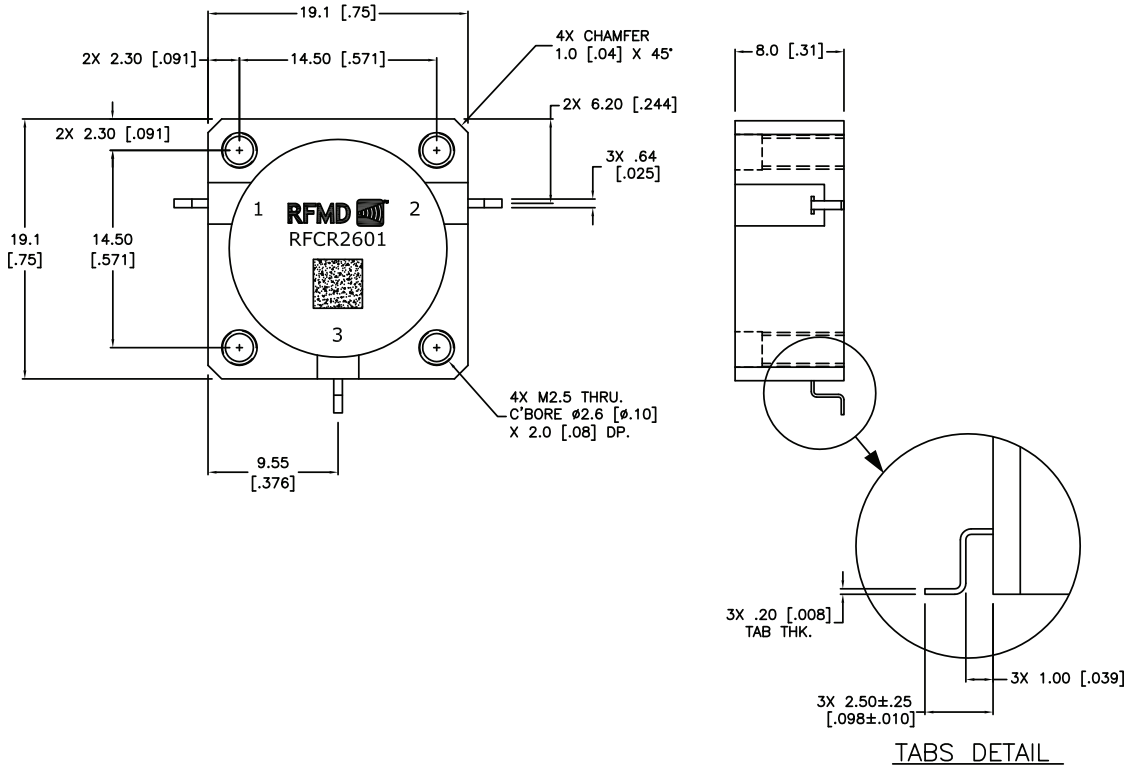
Note: Typical values represent Mid-band performance at 25 °C



Pin	Name	Description
1	INPUT	
2	OUTPUT	
3	TERMINATED	

Package Drawing

Dimensions in millimeters (inches)



Unless otherwise specified dimensions are in mm/[inches].

Tolerances are:

Fractions	Decimals	Angles
\pm	.x \pm .3 [.01]	\pm 0.5°
	.xx \pm .13 [.005]	