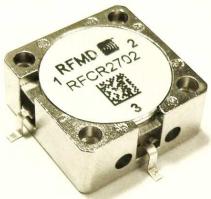


Package: Drop-in, 0.75in x 0.75in

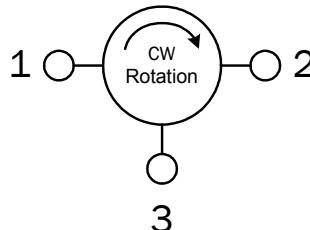


Features

- Typical Insertion Loss Less than 0.2dB
- -75dBc IMD Typical
- Isolation Greater than 25dB
- 100W Forward and Reverse Rating
- Industry Standard 0.75x0.75 Inch Drop-in Package

Applications

- Wireless Infrastructure Systems: LTE



Functional Block Diagram

Product Description

The RFCR2702 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 RFCR2702 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2702 2010MHz to 2025MHz Single Junction Drop-In Circulator
RFCR2702PCBA-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

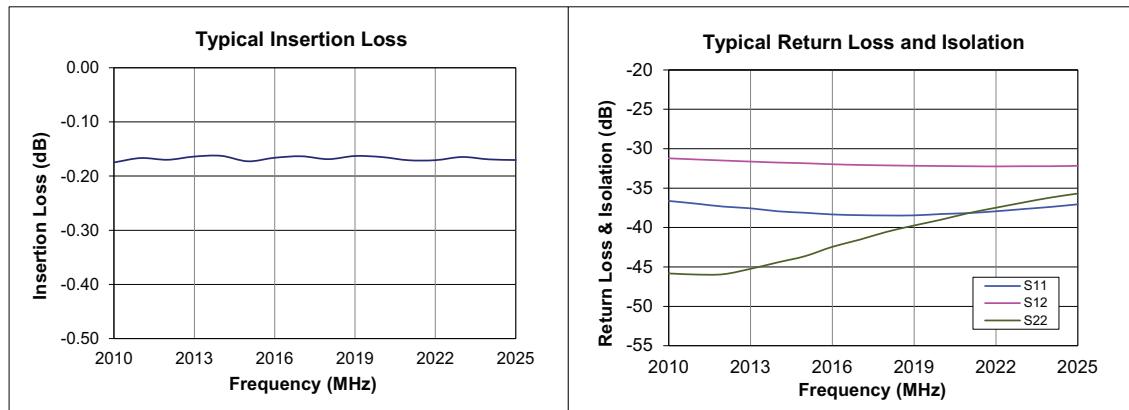
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Absolute Maximum Ratings

Parameter	Rating	Unit
Forward Power	150	W
Reverse Power	100	W
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +90	°C

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					
Frequency Range	2010		2025	MHz	
Insertion Loss		<0.20	0.30	dB	
Isolation	20	>25		dB	
Return Loss	20	>25		dB	
Forward IMD		-75	-70	dBc	2T at 37.5 Watts per T 5MHz spacing (dBm)

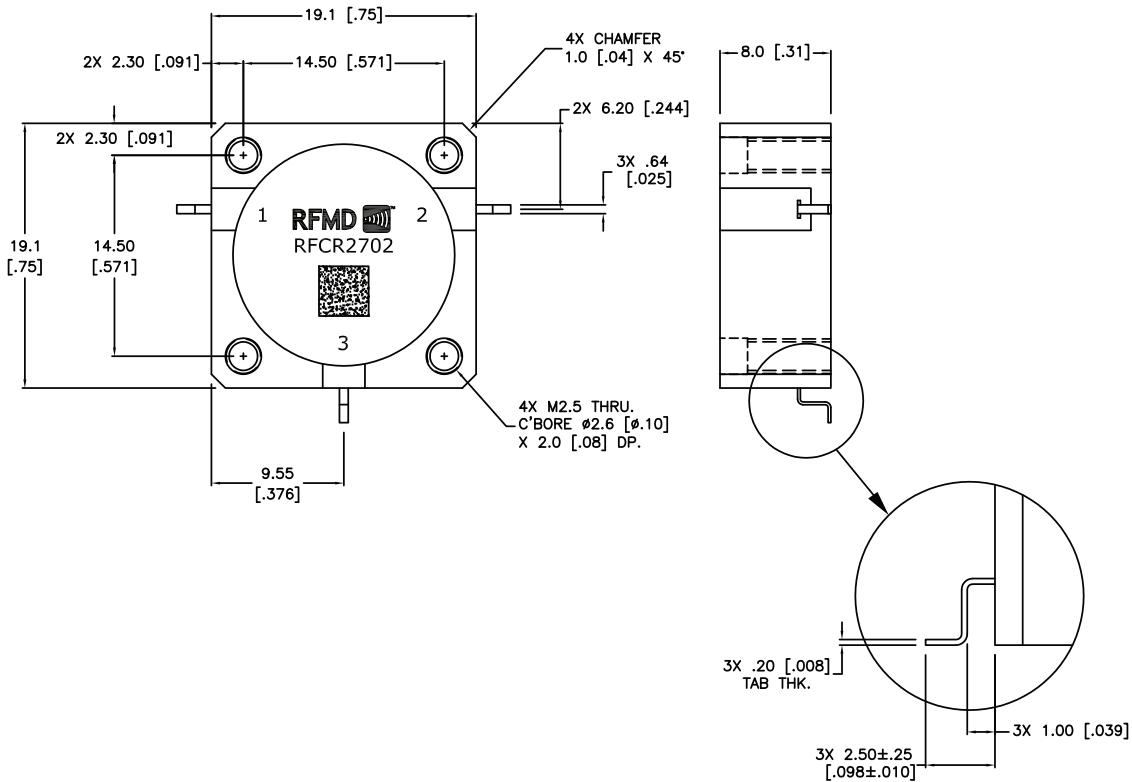
Note: Typical values represent Mid-band performance at 25°C



Pin	Name	Description
1	INPUT	
2	OUTPUT	
3	TERMINATED	

Package Drawing

Dimensions in millimeters (inches)



TABS DETAIL

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

Tolerances are:

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