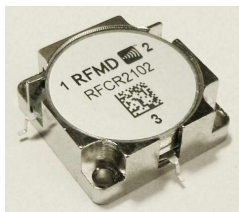


Package: Drop-in, 1in x 1 in

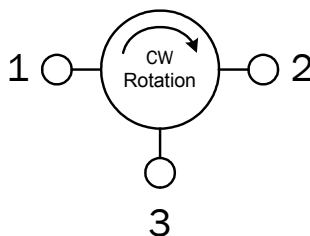


Features

- Typical Insertion Loss Less than 0.2dB
- -70dBc IMD Typical
- Isolation Greater than 23dB
- 250W Forward and Reverse Rating
- Industry Standard 1.0x1.0 Inch Drop-in Package

Applications

- Wireless Infrastructure Systems: LTE network.



Functional Block Diagram

Product Description

The RFCR2102 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 RFCR2102 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2102 728MHz to 756MHz Single Junction Drop-In Circulator
RFCR2102PCBA-41X Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

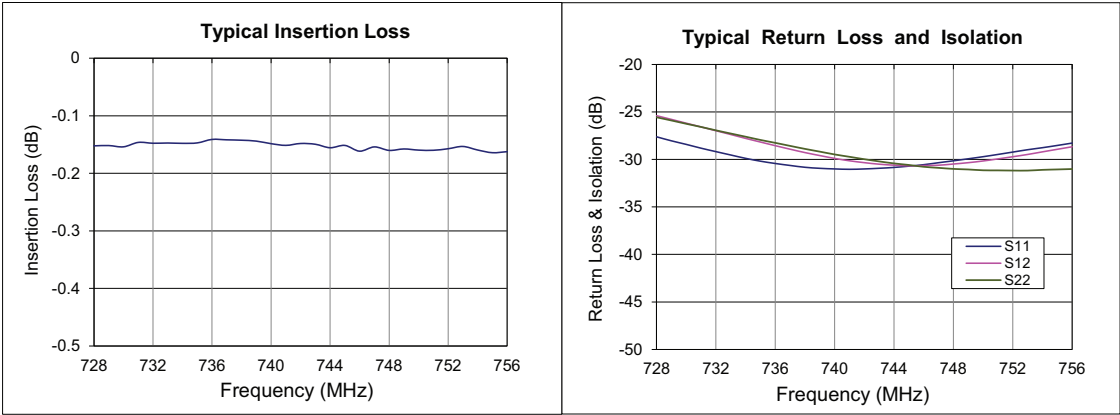
- | | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input type="checkbox"/> GaAs pHEMT | <input type="checkbox"/> 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)	1000/250	W
Reverse Power	250	W
Operating Temperature	-40 to +125	°C
Storage Temperature	-40 to +125	°C

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					
Frequency Range	728		756	MHz	
Insertion Loss		<0.20	0.30	dB	
Isolation	20	>23		dB	
Return Loss	20	>23		dB	
Forward IMD		-70		dBc	2T at 37.0 Watts per T 1MHz spacing (dBc)

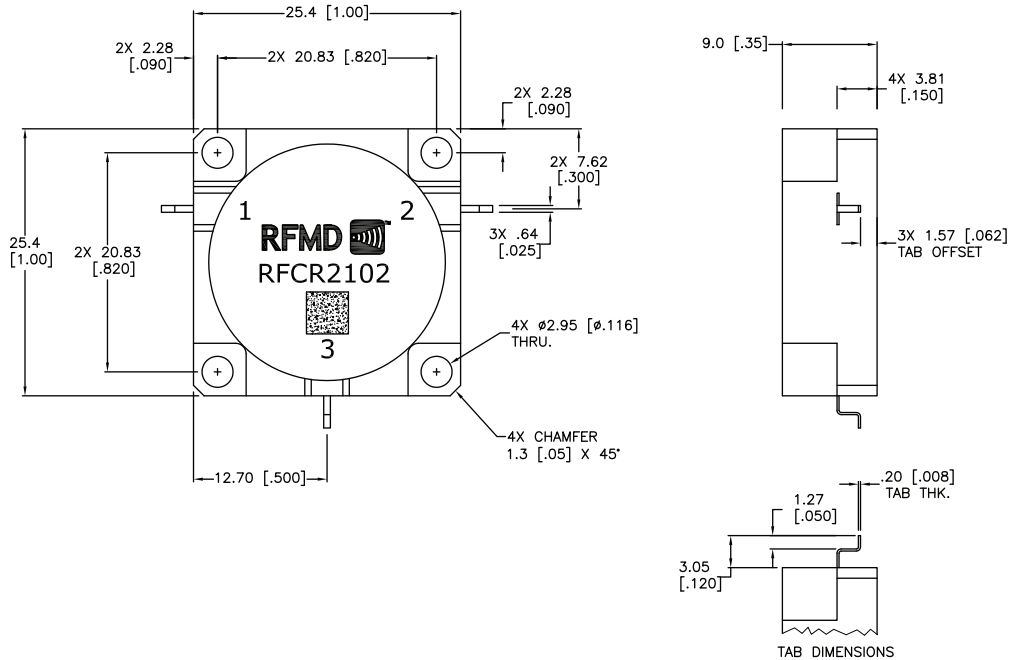
Note: Typical values represent Mid-band performance at 25 °C



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