

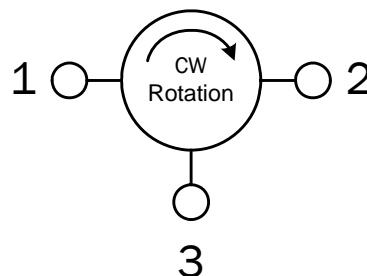


Features

- Typical Insertion Loss Less than 0.2dB
- 70dBc IMD Typical
- Isolation Greater than 23dB
- 300W Forward and Reverse Power Rating
- Industry Standard 1" x 1" Drop-in Package

Applications

- Wireless Infrastructure Systems: AMPS, GSM 900 (E-GSM, P-GSM, R-GSM), IS-95 (CDMA), IS-136 (D-AMPS), 3G



Functional Block Diagram

Product Description

The RFCR2207 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 RFCR2207 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2207 860MHz to 960MHz Single Junction Drop-In Circulator
RFCR2207PCBA-41X Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

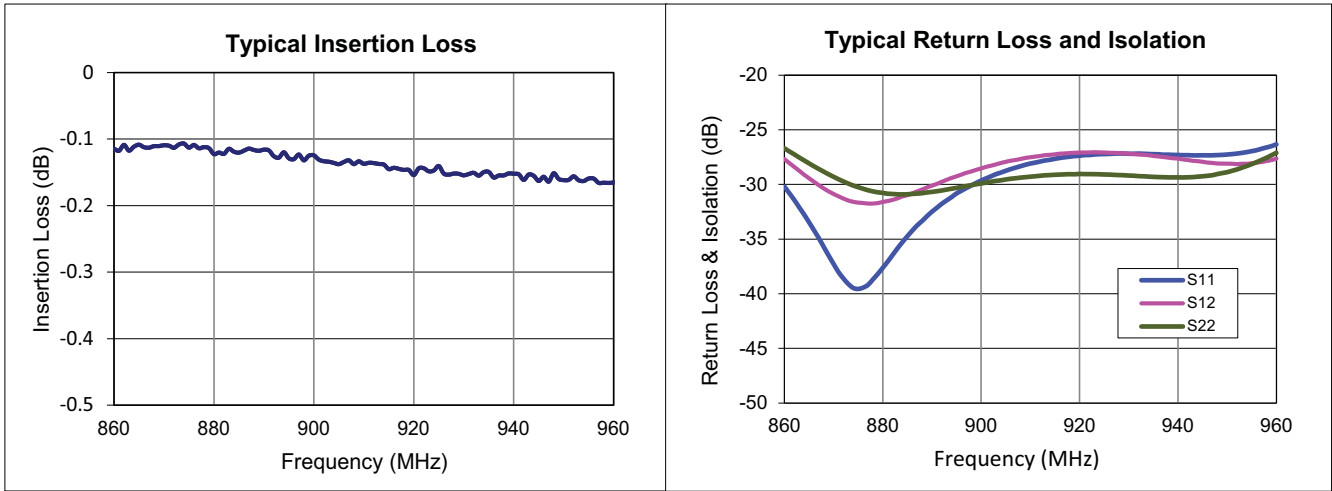
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|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input type="checkbox"/>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

Absolute Maximum Ratings

Parameter	Rating	Unit
Forward Power (Peak/Average)	3000/300	W
Reverse Power (Peak/Average)	3000/300	W
Operating Temperature	-40 to +125	°C
Storage Temperature	-40 to +125	°C

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					
Frequency Range	860		960	MHz	
Insertion Loss		<0.20	0.30	dB	
Isolation	20	>23		dB	
Return Loss	20	>23		dB	
FWD IMD	70	>70		dBc	2 x 50.0W; 1MHz Spacing

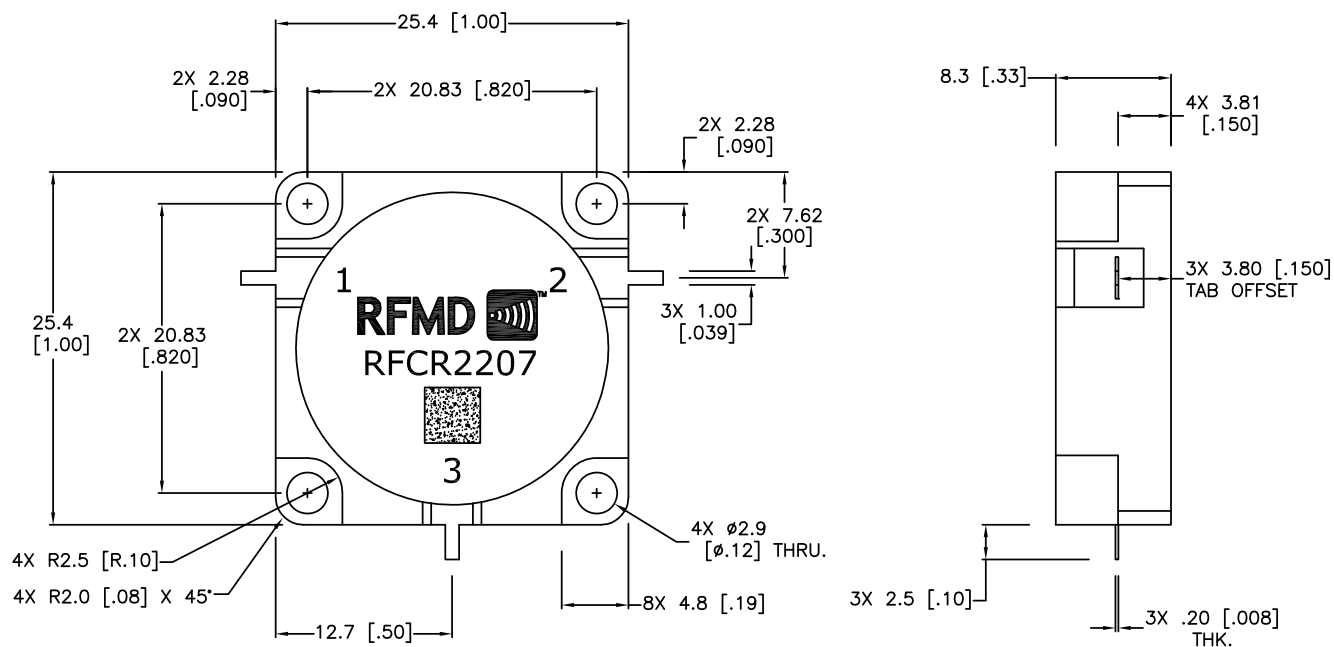
Note: Typical values represent Mid-band performance at 25 °C



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
±	.x± .3 [.01]	±0.5°
	.xx± .13 [.005]	