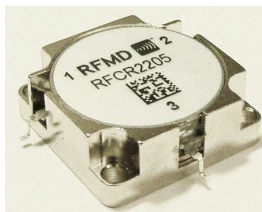


Package: Drop-in, 1in x 1in

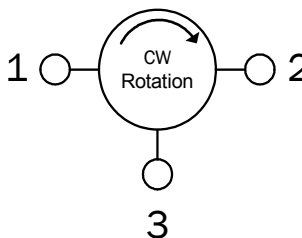


Features

- Typical Insertion Loss Less than 0.2dB
- -70dBc IMD Typical
- Isolation Greater than 25dB
- 200W Forward and Reverse Power Rating
- Industry Standard 1.0x1.0 Inch Drop-in Package

Applications

- AMPS, GSM, IS-95 (CDMA), IS-136 (D-AMPS), 3G



Functional Block Diagram

Product Description

The RFCR2205 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 RFCR2205 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2205 847MHz to 860MHz Single Junction Drop-In Circulator
RFCR2205PCBA-41X Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

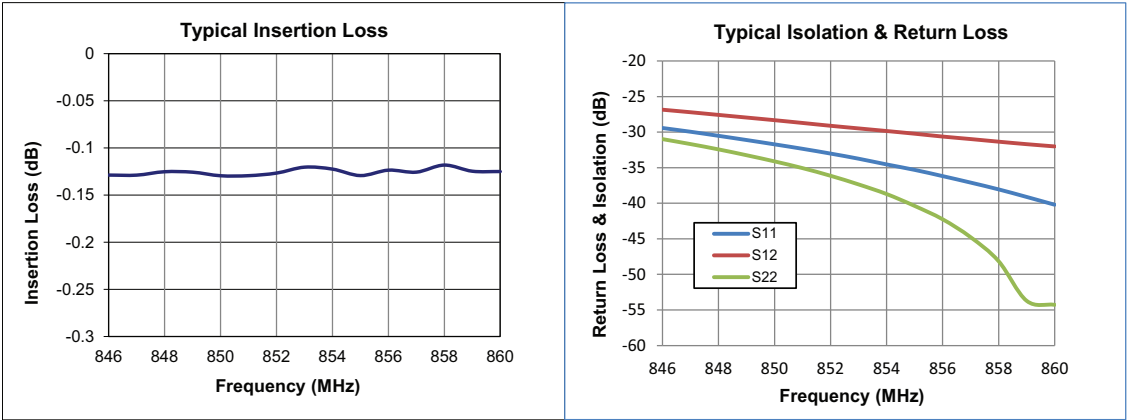
- | | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| ☐ GaAs HBT | ☐ SiGe BiCMOS | ☐ GaAs pHEMT | ☐ GaN HEMT |
| ☐ GaAs MESFET | ☐ Si BiCMOS | ☐ Si CMOS | ☐ BiFET HBT |
| ☐ InGaP HBT | ☐ SiGe HBT | ☐ Si BJT | ☐ LDMOS |

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

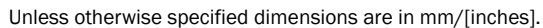
Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					
Frequency Range	847		860	MHz	
Insertion Loss		<0.20	0.30	dB	
Isolation	20	>25		dB	
Return Loss	20	>25		dB	
IMD		-70		dBc	

Note: Typical values represent Mid-band performance at 23 °C



Pin	Name	Description
1	INPUT	
2	OUTPUT	
3	TERMINATED	

Dimensions in millimeters (inches)



Tolerances are:

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