

RFCR2306

920MHz TO 960MHz SINGLE JUNCTION DROP-IN CIRCULATOR

Package: Drop-in, 1in x 1in



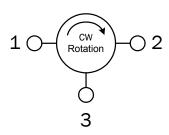


Features

- Typical Insertion Loss Less than 0.2dB
- -70dBc IMD Typical
- Isolation Greater than 23dB
- 200W Foward and Reverse Power Rating
- Industry Standard 1.0x1.0 Inch Drop-in Package

Applications

 Wireless Infrastructure Systems: GSM 900 (P-GSM & G-GSM), GSM-R (R-GSM).



Functional Block Diagram

Product Description

The RFCR2306 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 RFCR2306 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2306 920MHz to 960MHz Single Junction Drop-In Circulator

RFCR2306PCBA-41X Fully Assembled Evaluation Board

Optimum Technology Matching® Applied				
☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT		
☐ Si BiCMOS	☐ Si CMOS	☐ BiFET HBT		
☐ SiGe HBT	☐ Si BJT	☐ LDMOS		
	☐ SiGe BiCMOS ☐ Si BiCMOS	☐ SiGe BiCMOS ☐ GaAs pHEMT☐ Si BiCMOS ☐ Si CMOS		

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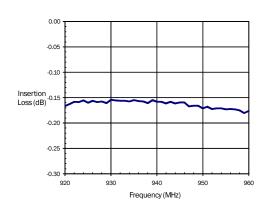
Absolute Maximum Ratings

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

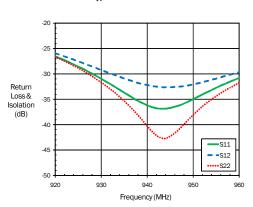
Parameter	Specification		Unit	Condition	
Falailletei	Min.	Тур.	Max.	Offic	Condition
Overall					
Frequency Range	920		960	MHz	
Insertion Loss		<0.20	0.30	dB	
Isolation	20	>23		dB	
Return Loss	20	>23		dB	
IMD		-70		dBc	2Tx37.0 Watts

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

Typical Insertion Loss



Typical Return Loss and Isolation

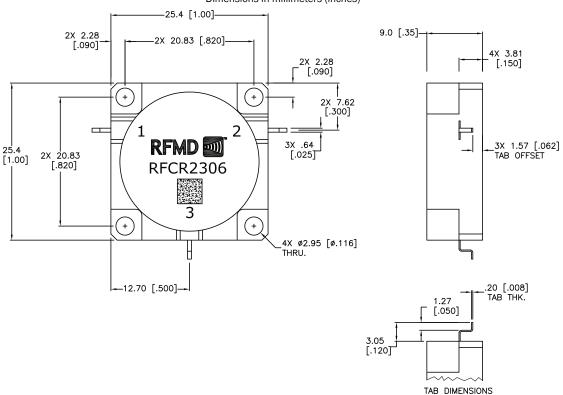


Pin	Name	Description
1	INPUT	
2	OUTPUT	
3	TERMINATED	



Package Drawing





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

Tolerances are:

Fractions	Decimals	Angles
±	.x± .3 [.01]	+0.5°
	.xx± .13 [.005]	10.5