

RFCR2310

900MHz TO 930MHz SINGLE JUNCTION **DROP-IN CIRCULATOR**

Package: Drop-in, 1in x 1in



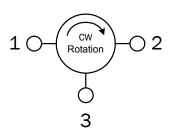


Features

- 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, GSM-R



Functional Block Diagram

Product Description

The RFCR2310 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 RFCR2310 circulator is CW (Clockwise) rotation.

Ordering Information

GaAs HBT

☐ InGaP HBT

RFCR2310 900MHz to 930MHz Single Junction Drop-In Circulator RFCR2310PCBA-41X Fully Assembled Evaluation Board

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

RFCR2310

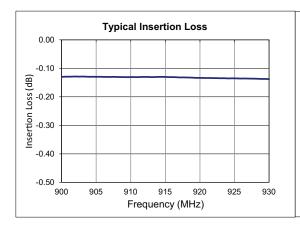


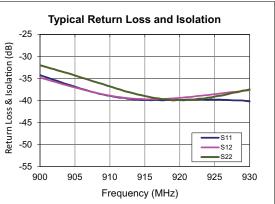
Absolute Maximum Ratings

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	900		930	MHz	
Insertion Loss		<0.20	0.30	dB	
Isolation	20	>23		dB	
Return Loss	20	>23		dB	
Forward IMD		-70		dBm	2T at 37Watts per T, 5MHz Spacing

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



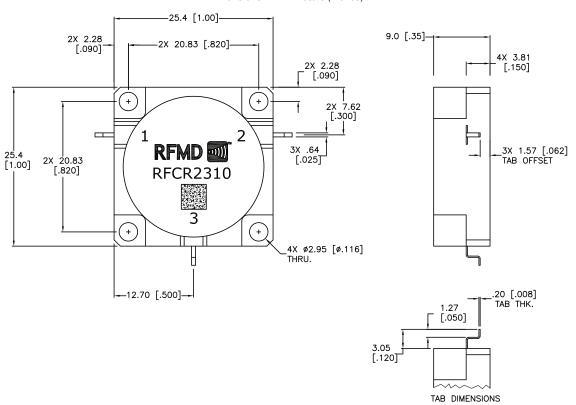


Pin	Name	Description
1	INPUT	
2	OUTPUT	
3	TERMINATED	



Package Drawing

Dimensions in millimeters (inches)



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

Tolerances are:

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