RFCR2304

1030MHz TO 1090MHz SINGLE JUNCTION **DROP-IN CIRCULATOR**

Package: Drop-in, 1in x 1 in



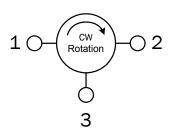


Features

- Typical Insertion Loss Less than 0.25dB
- Isolation Greater than 23dB
- 200W Forward and Reverse Rating
- Industry Standard 1.0x1.0 Inch Drop-in Package

Applications

■ Wireless Infrastructure Systems: WiMAX (4G)



Functional Block Diagram

Product Description

The RFCR2304 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 RFCR2304 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2304 1030MHz to 1090MHz Single Junction Drop-In Circulator RFCR2304PCBA-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	

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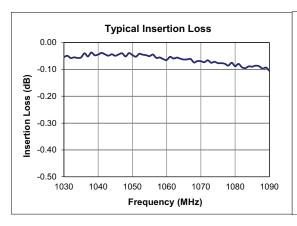


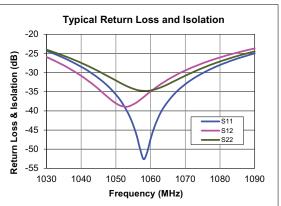
Absolute Maximum Ratings

Parameter	Rating	Unit
Forward Power (Peak/Average)	500/200	W
Reverse Power	200	W
Operating Temperature	-40 to +85	°C
Storage Temperature	-55 to +85	°C

Parameter	Specification		Unit	Condition	
	Min.	Тур.	Max.	Ullit	Condition
Overall					
Frequency Range	1030		1090	MHz	
Insertion Loss		<0.25	0.30	dB	
Isolation	20	>23		dB	
Return Loss	20	>23		dB	

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



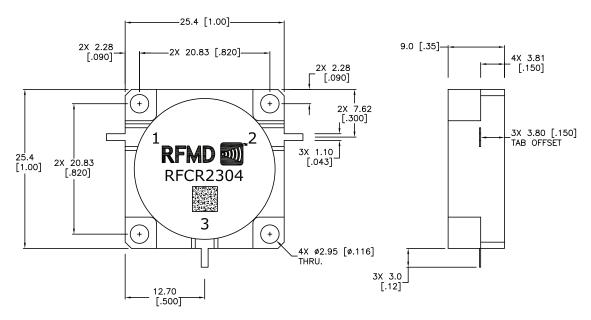


Pin	Name	Description
1	INPUT	
2	OUTPUT	
3	TERMINATED	



Package Drawing

Dimensions in millimeters (inches)



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

Tolerances are:

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