RFCR2802



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3600MHz TO 3800MHz SINGLE JUNCTION DROP-IN CIRCULATOR

Package: Drop-in, 0.75" x 0.75"





Features

- Typical Insertion Loss Less than 0.20dB
- 70dBc IMD Typical
- Isolation Greater than 23dB
- Industry Standard 0.75" x 0.75" Drop-in Package

Applications

 Wireless Infrastructure Systems; WiMAX



Functional Block Diagram

Product Description

The RFCR2802 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 RFCR2802 circulator is CW (Clockwise) rotation.

Ordering Information

RFCR2802 3600MHz to 3800MHz Single Junction Drop-In Circulator RFCR2802PCBA-41X Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

🗌 GaAs HBT	SiGe BiCMOS
GaAs MESFET	Si BiCMOS
🗌 InGaP HBT	SiGe HBT

□ GaAs pHEMT □ GaN HEMT □ Si CMOS □ BiFET HBT □ Si BJT □ LDMOS

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Absolute Maximum Ratings

Parameter	Rating	Unit
Forward Power	100	W
Reverse Power	50	W
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +95	°C

Parameter	Specification			Unit	Condition	
raiameter	Min.	Тур.	Max.	Onic	Condition	
Overall						
Frequency Range	3600		3800	MHz		
Insertion Loss		<0.20	0.25	dB		
Isolation	22	>23		dB		
Return Loss	22	>23		dB		
FWD IMD			-70	dBm	2T at 20dBm per T; 5Mhz Spacing, Room Temp	

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:

Fractions	Decimals	Angles	
+	.x± .3 [.01]	+0 5°	
⊺	.xx± .13 [.005]	10.5	