

RFCR2801

2490MHz TO 2690MHz SINGLE JUNCTION DROP-IN CIRCULATOR

Package: Drop-in, 0.75in x 0.75in



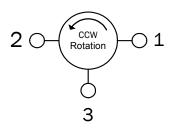


Features

- Typical Insertion Loss Less than 0.2dB
- -75dBc IMD Maximum
- Isolation Greater than 23dB
- 100W Forward and Reverse Rating
- Industry Standard 0.75in x 0.75in Drop-in Package

Applications

Wireless Infrastructure Systems: 4G (BRS/EBS)



Functional Block Diagram

Product Description

The RFCR2801 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 RFCR2801 circulator is CCW (Counter Clockwise) rotation.

Ordering Information

RFCR2801 2490MHz to 2690MHz Single Junction Drop-In Circulator RFCR2801PCBA-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		

rt, con ac i EMD at (+1 336-678-5570) customers ervice or md.co

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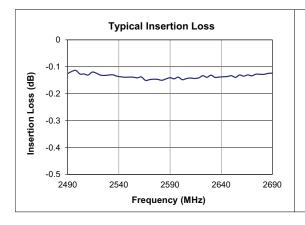


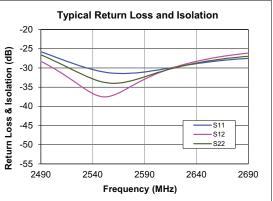
Absolute Maximum Ratings

Parameter	Rating	Unit
Forward Power (Peak/Average)	100	W
Reverse Power	100	W
Operating Temperature	-40 to +90	°C
Storage Temperature	-40 to +100	°C

Parameter	Specification		Unit	Condition		
raiametei	Min.	Тур.	Max.	Offic	Collaboli	
Overall						
Frequency Range	2490		2690	MHz		
Insertion Loss		<0.20	0.30	dB		
Isolation	21	>23		dB		
Return Loss	21	>23		dB		
Forward IMD			-75	dBc	2T at 35 Watts per T 5MHz spacing (dBc), Room temp	

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



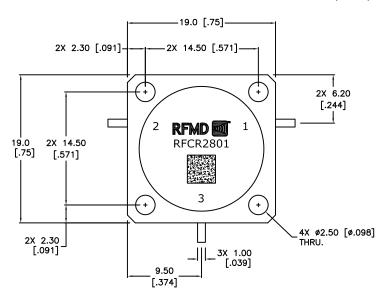


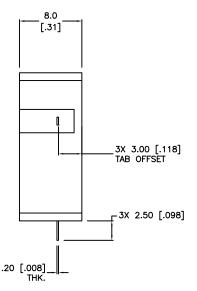
Pin	Name	Description
1	OUTPUT	
2	INPUT	
3	TERMINATED	



Package Drawing

Dimensions in millimeters (inches)





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

Tolerances are:

Fractions	Decimals	Angles	
_	.x± .3 [.01]	±0.5°	
<u> </u>	.xx± .13 [.005]		