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FTR-915

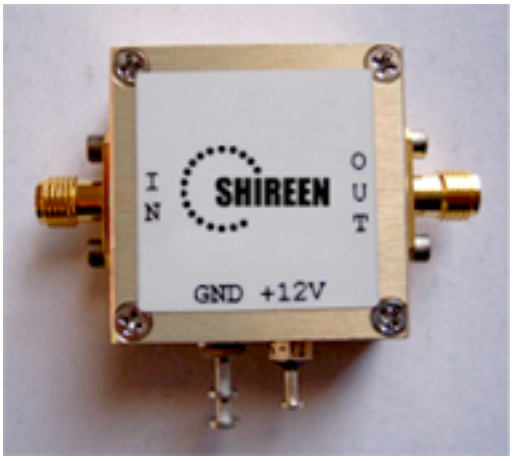
FTR Series — 300-310MHz Input Frequency Tripler

Features

- Input Frequency: 300 – 310MHz
- Output Frequency: 900 – 930MHz
- Conversion Gain: 13B
- F0 Isolation: 60dB
- Input Drive Level: 0Bm
- DC Power: 12V
- SMA Connector

Performance@305MHz, Pin= 0Bm

Picture



Description

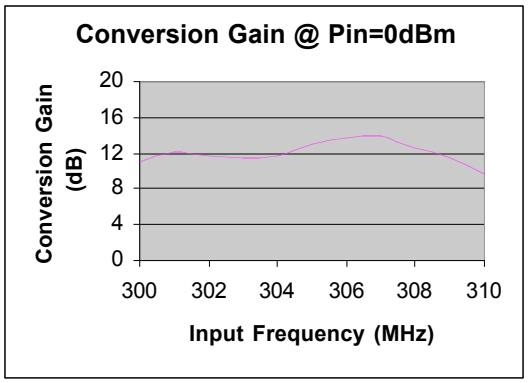
FTR-915 is an active frequency tripler operates with input frequency range from 300 to 310MHz and output frequency range from 900 to 930MHz.

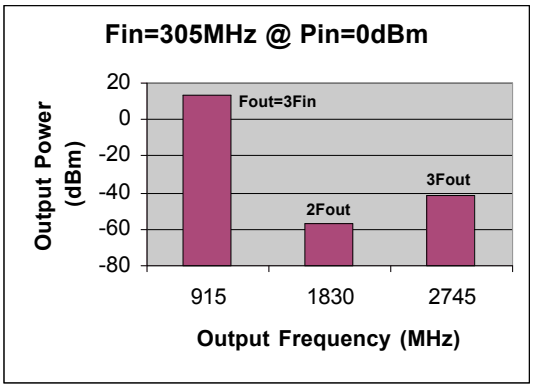
Electrical Specifications @ +25 °C, $Z_S = Z_L = 50$ Ohms, Pin = 0Bm

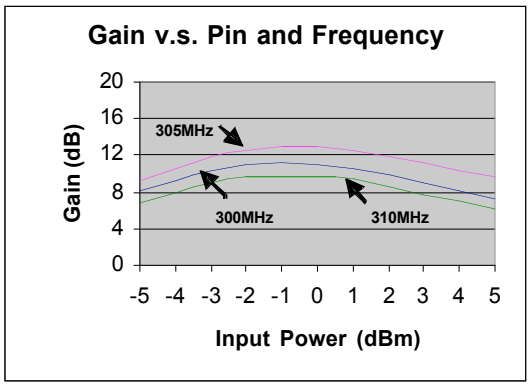
Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	300	305	310
Output Frequency Range	MHz	900	915	930
Conversion Gain	dB	9.5	13	
Output Power F_{in}=305MHz/F_{out}=915MHz	dBm		13	
F_ Isolation * F_{in}=305MHz/F_{in}=305MHz	dB		60	
2F_ Isolation * F_{in}=305MHz/2F_{in}=610MHz	dB		85	
4F_ Isolation * F_{in}=305MHz/4F_{in}=1220MHz	dB		100	
Harmonic Output * F_{in}=305MHz/2F_{out}=1830MHz	dBc		69	
F_{in}=305MHz/3F_{out}=2745MHz	dBc		54	
VSWR Input/Output	1:		1.3/1.8	
DC Power Input	V	10	12	15
Operating Current	mA		150	

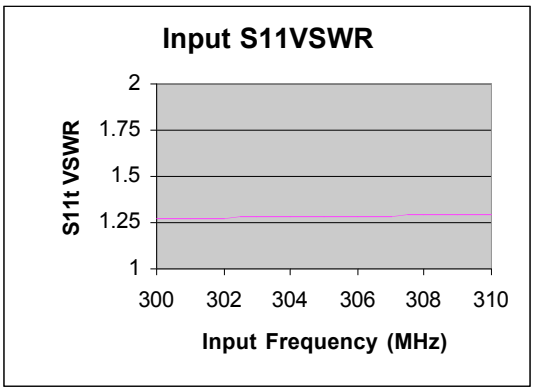
* Isolation with respect to desired frequency output power level at 915MHz

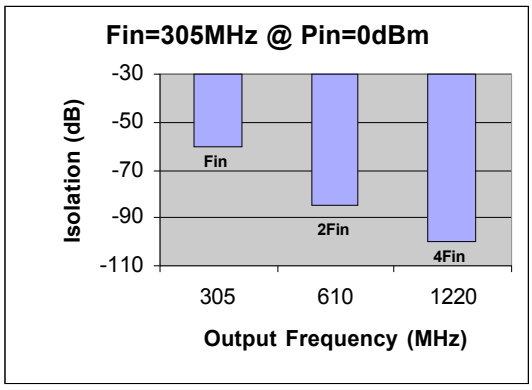
Typical Performance @ +25 °C

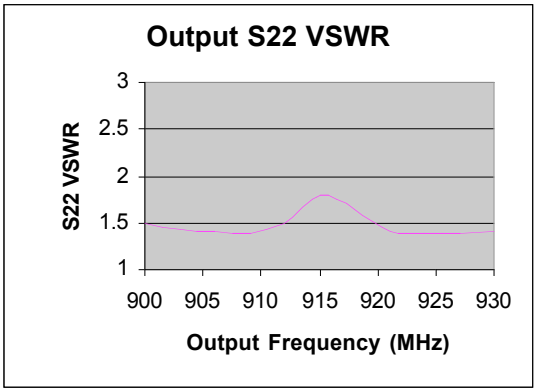








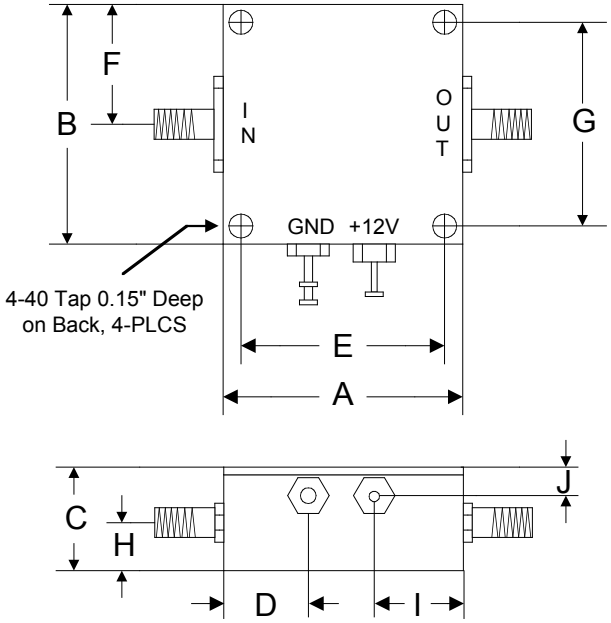




Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +105 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76