

FTR Series

310-320MHz Input Frequency Tripler

Features

- Input Frequency: 310 – 320MHz
- Output Frequency: 930 – 960MHz
- Conversion Gain: 11.5B
- F0 Isolation: 30dB
- Input Drive Level: 0Bm
- DC Power: 12V
- SMA Connector

Picture



Performance@315MHz, Pin= 0Bm

Description

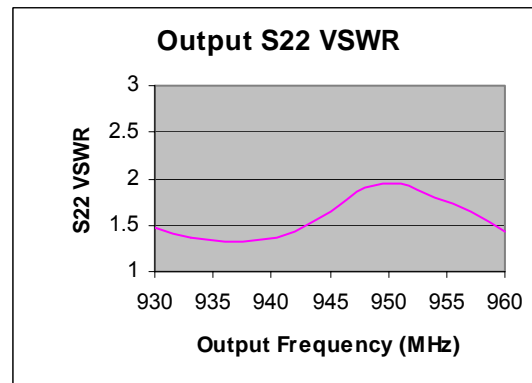
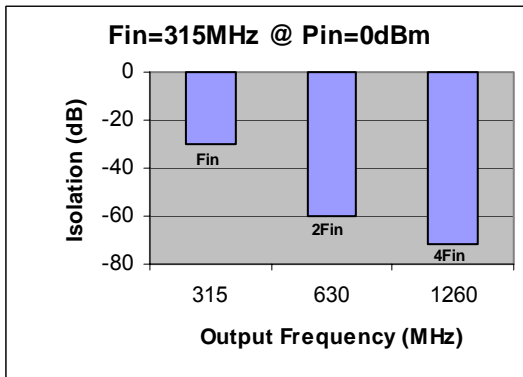
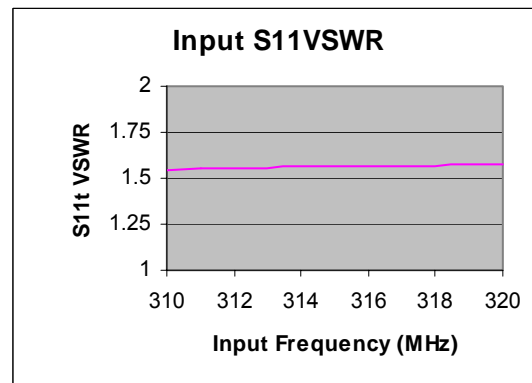
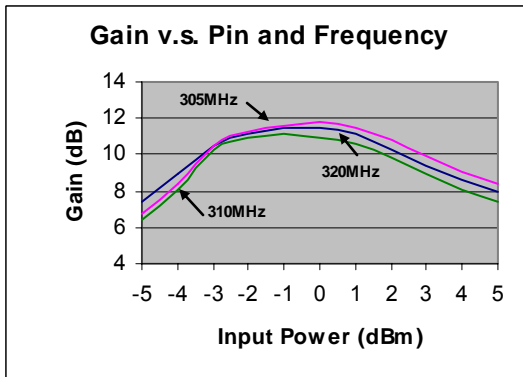
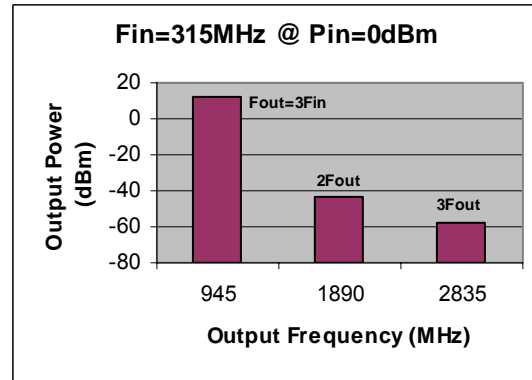
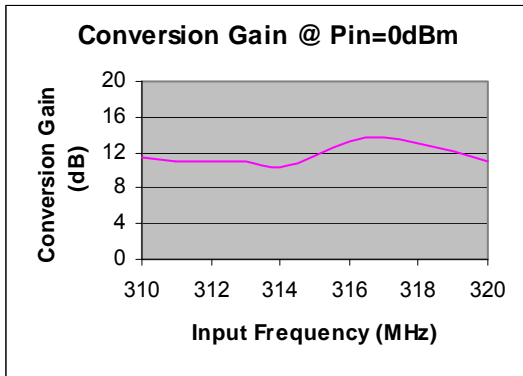
FTR-945 is an active frequency tripler operates with input frequency range from 310 to 320MHz and output frequency range from 930 to 960MHz.

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

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	310	315	320
Output Frequency Range	MHz	930	945	960
Conversion Gain	dB	10.5	11.5	
Output Power $F_{in}=315\text{MHz}/F_{out}=945\text{MHz}$	dBm		11.5	
F ₀ Isolation * $F_{in}=315\text{MHz}/F_{in}=315\text{MHz}$	dB		30	
2F ₀ Isolation * $F_{in}=315\text{MHz}/2F_{in}=630\text{MHz}$	dB		60	
4F ₀ Isolation * $F_{in}=315\text{MHz}/4F_{in}=1260\text{MHz}$	dB		72	
Harmonic Output * $F_{in}=315\text{MHz}/2F_{out}=1890\text{MHz}$	dBc		55	
$F_{in}=315\text{MHz}/3F_{out}=2835\text{MHz}$	dBc		69	
VSWR Input/Output	1:		1.6/2.0	
DC Power Input	V	10	12	15
Operating Current	mA		150	

* Isolation with respect to desired frequency output power level at 945MHz

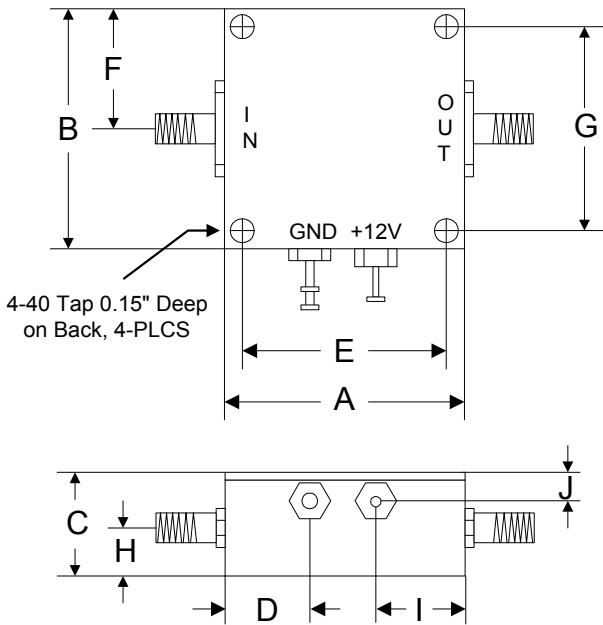
Typical Performance @ +25 °C



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