

## FTR Series

## 800-833MHz Input Frequency Tripler

### Features

- Input Frequency: 800 – 833MHz
- Output Frequency: 2400 – 2499MHz
- Conversion Gain: 12dB
- F0 Isolation: 23dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

### Picture



Performance@816MHz, Pin= 0dBm

### Description

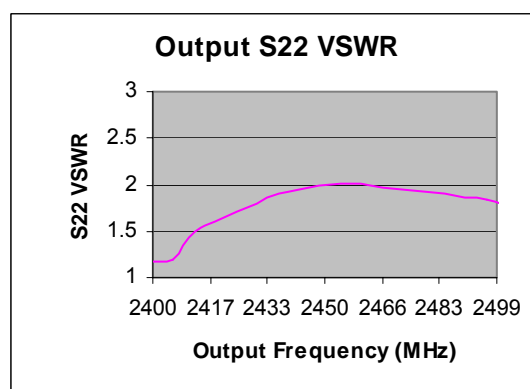
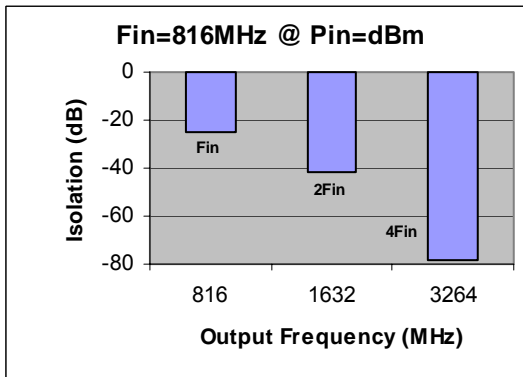
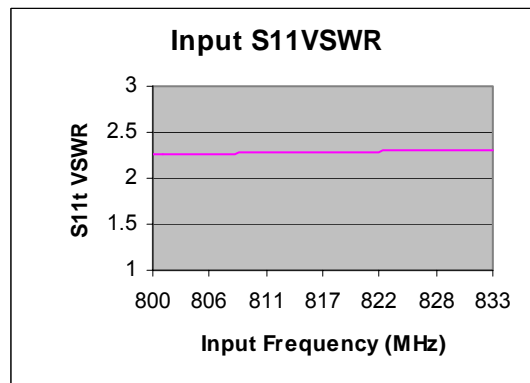
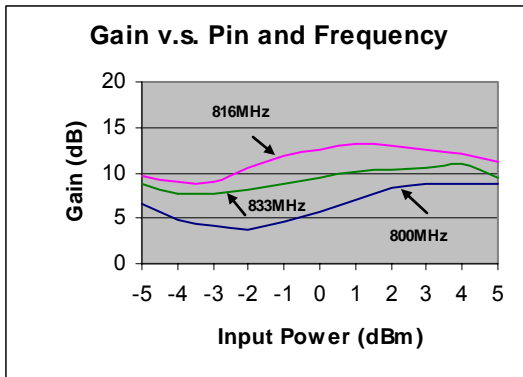
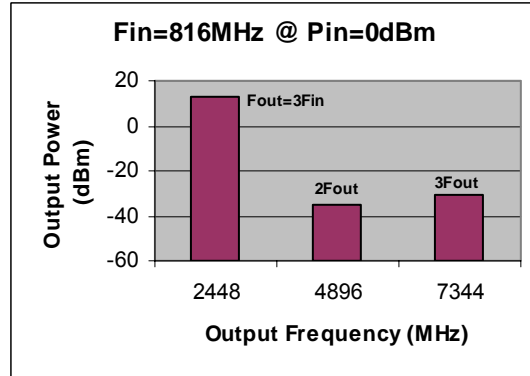
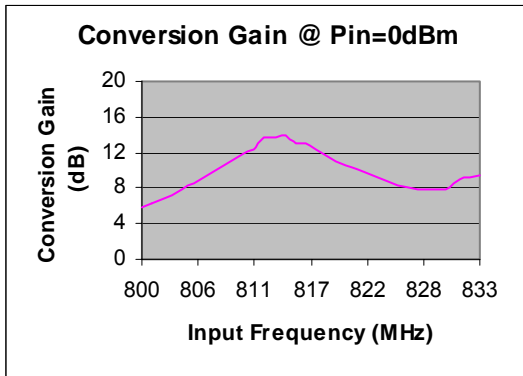
FTR-2450 is an active frequency tripler operates with input frequency range from 800 to 833MHz and output frequency range from 2400 to 2499MHz.

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

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	800	816	833
Output Frequency Range	MHz	2400	2448	2499
Conversion Gain	dB	6	12	
Output Power $F_{in}=816\text{MHz}/F_{out}=2448\text{MHz}$	dBm		12	
F <sub>0</sub> Isolation * $F_{in}=816\text{MHz}/F_{in}=816\text{MHz}$	dB		25	
2F <sub>0</sub> Isolation * $F_{in}=816\text{MHz}/2F_{in}=1632\text{MHz}$	dB		42	
4F <sub>0</sub> Isolation * $F_{in}=816\text{MHz}/4F_{in}=3264\text{MHz}$	dB		78	
Harmonic Output * $F_{in}=816\text{MHz}/2F_{out}=4896\text{MHz}$ $F_{in}=816\text{MHz}/3F_{out}=7344\text{MHz}$	dBc		47 43	
VSWR Input/Output	1:		2.3/2.0	
DC Power Input	V	10	12	15
Operating Current	mA		160	

\* Isolation with respect to desired frequency output power level at 2448MHz

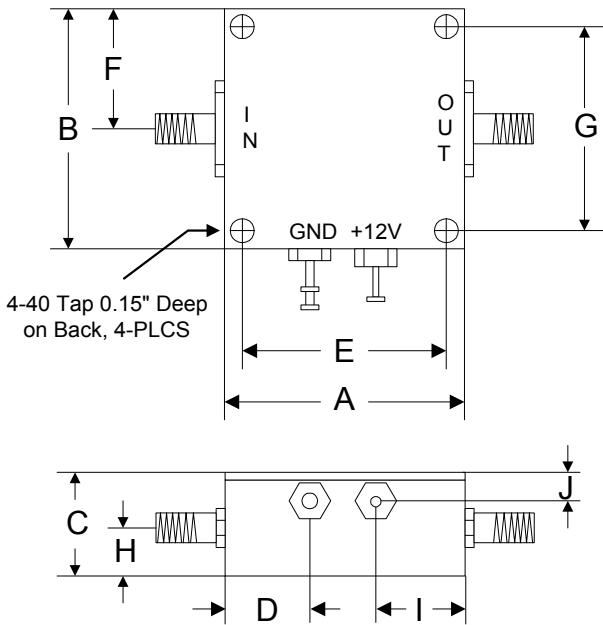
### Typical Performance @ +25 °C



### 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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76