

FTR Series

274-284MHz Input Frequency Tripler

Features

- Input Frequency: 274 – 284MHz
- Output Frequency: 822 – 852MHz
- Conversion Gain: 10dB
- F0 Isolation: 93dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

Picture



Performance@279MHz, Pin= 0dBm

Description

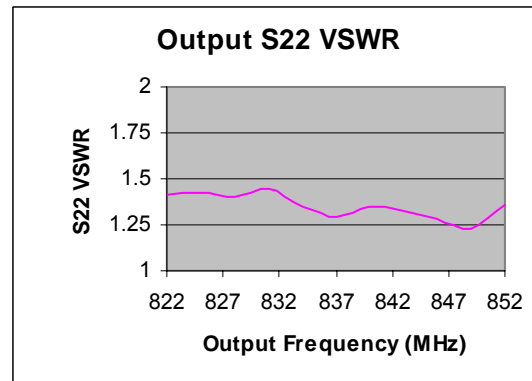
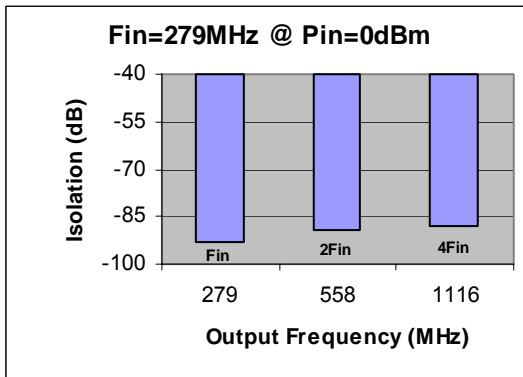
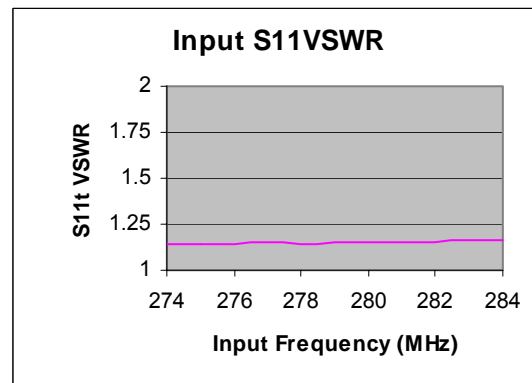
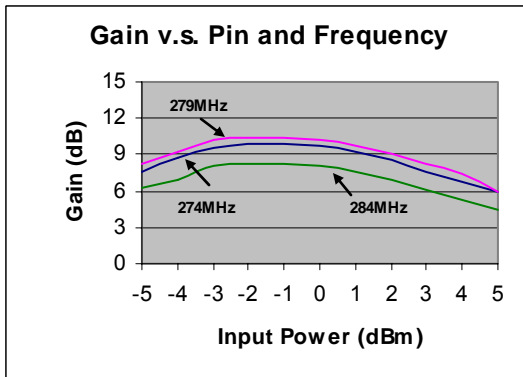
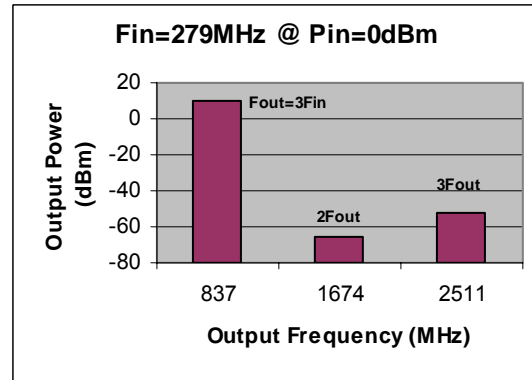
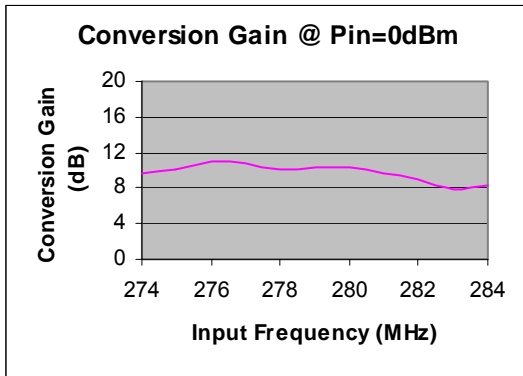
FTR-835 is an active frequency tripler operates with input frequency range from 274 to 284MHz and output frequency range from 822 to 852MHz.

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

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	274	279	284
Output Frequency Range	MHz	822	837	852
Conversion Gain	dB	8	10	
Output Power $F_{in}=279\text{MHz}/F_{out}=837\text{MHz}$	dBm		10	
F ₀ Isolation * $F_{in}=279\text{MHz}/F_{in}=279\text{MHz}$	dB		93	
2F ₀ Isolation * $F_{in}=279\text{MHz}/2F_{in}=558\text{MHz}$	dB		89	
4F ₀ Isolation * $F_{in}=279\text{MHz}/4F_{in}=1116\text{MHz}$	dB		88	
Harmonic Output * $F_{in}=279\text{MHz}/2F_{out}=1674\text{MHz}$	dBc		75	
$F_{in}=279\text{MHz}/3F_{out}=2511\text{MHz}$	dBc		60	
VSWR Input/Output	1:		1.2/1.7	
DC Power Input	V	10	12	15
Operating Current	mA		150	

* Isolation with respect to desired frequency output power level at 837MHz

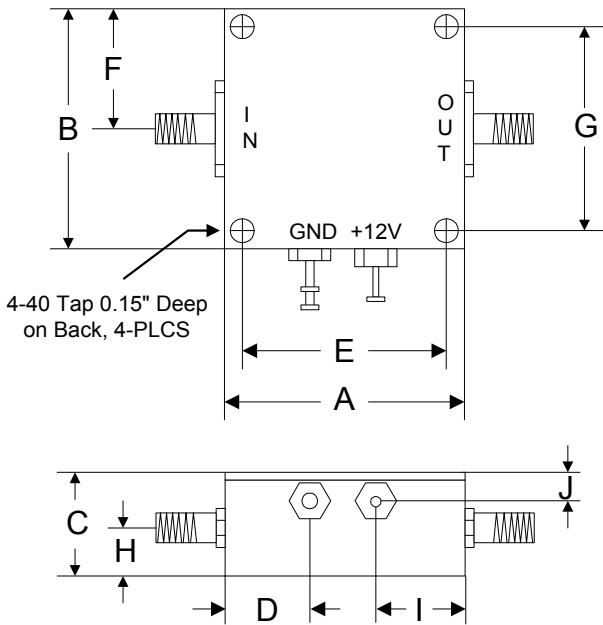
Typical Performance @ +25 °C



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