

## FMR Series

## 700-1000MHz Input Frequency Tripler

### Features

- Input Frequency: 700 – 1000MHz
- Output Frequency: 2100 – 3000MHz
- Conversion Gain: 12dB
- F0 Isolation: 25dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

### Picture



Performance@850MHz, Pin= 0dBm

### Description

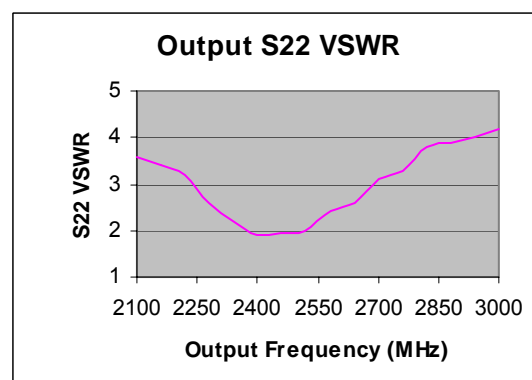
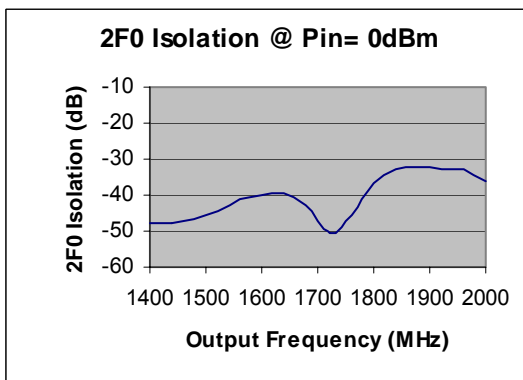
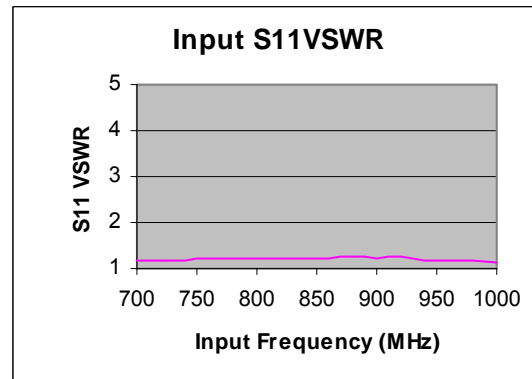
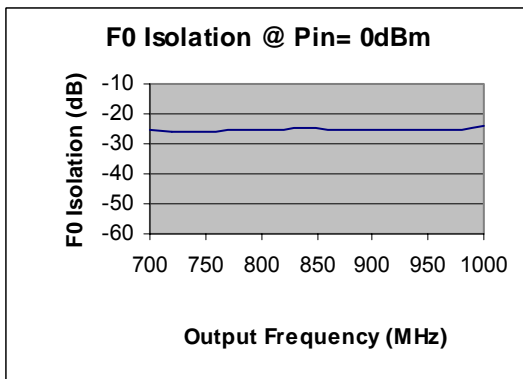
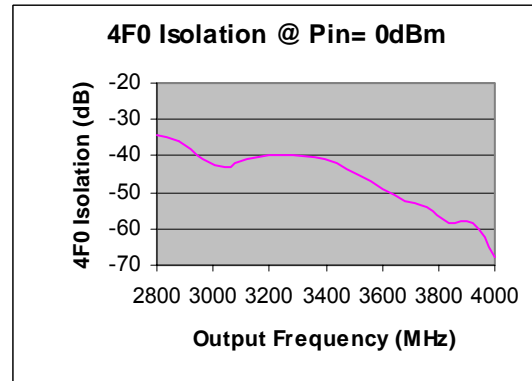
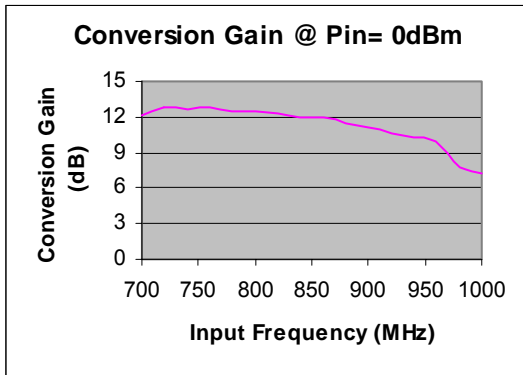
FMR-3-5 is an active frequency tripler operates with input frequency range from 700 to 1000MHz and output frequency range from 2100 to 3000MHz.

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

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	700		1000
Output Frequency Range	MHz	2100		3000
Conversion Gain	dB	7	12	13
F <sub>0</sub> Isolation *	dB		25	
2F <sub>0</sub> Isolation *	dB		35	
4F <sub>0</sub> Isolation *	dB		40	
VSWR Input			1:1.30	
Output			1:3.50	
DC Power Input	V	10	12	15
Operating Current	mA		150	

\* Isolation with respect to output power level

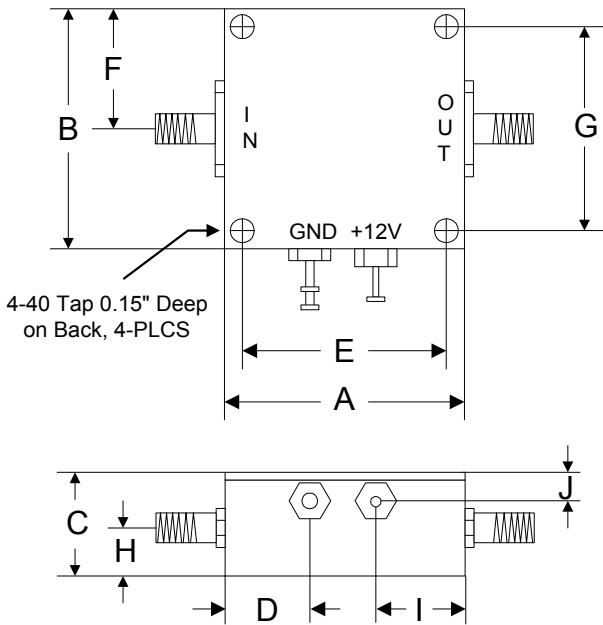
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+23dBm
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