

FMR Series

600-750MHz Input Frequency Tripler

Features

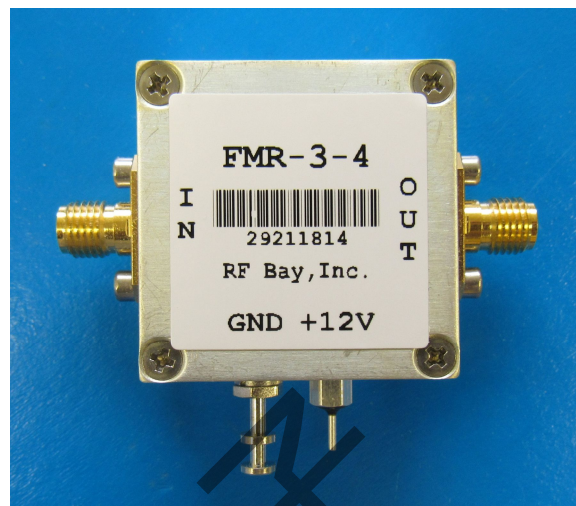
- Input Frequency: 600 – 750MHz
- Output Frequency: 1800 – 2250MHz
- Conversion Gain: 4dB
- F0 Isolation: 30dB
- Input Drive Level: -3dBm
- DC Power: +12V
- SMA Connector

Performance@675MHz, Pin= -3dBm

Description

FMR-3-4 is an active frequency tripler operates with input frequency range from 600 to 750MHz and output frequency range from 1800 to 2250MHz.

Picture



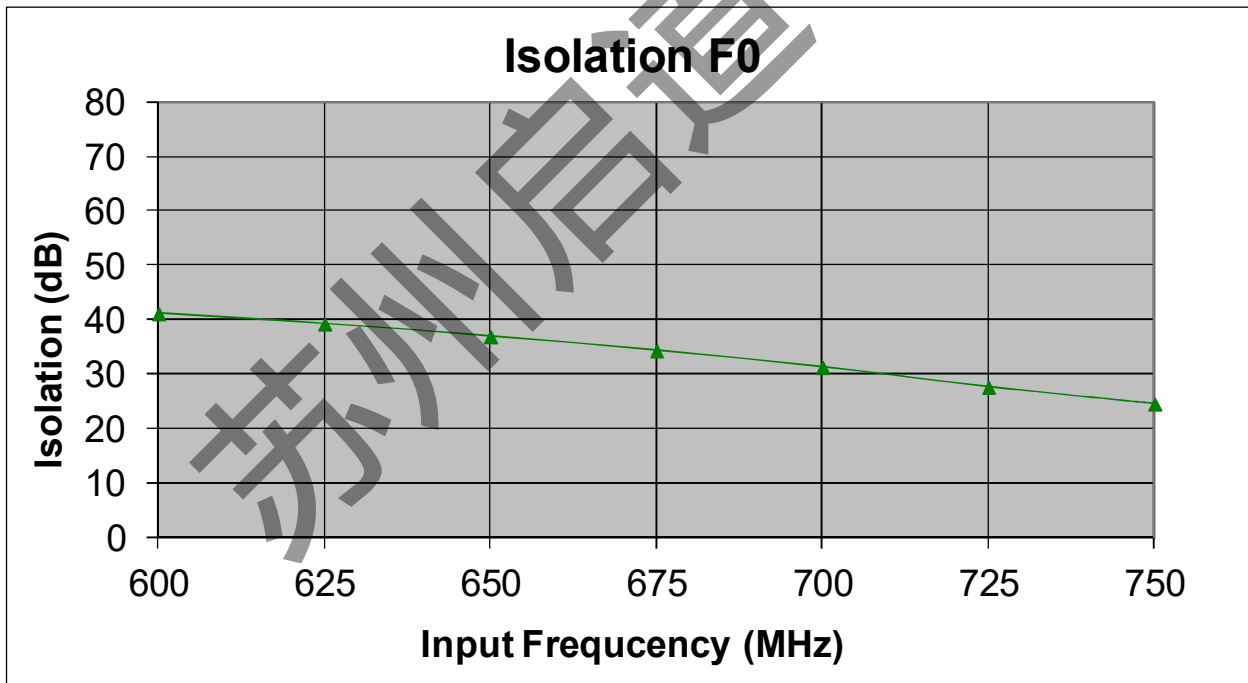
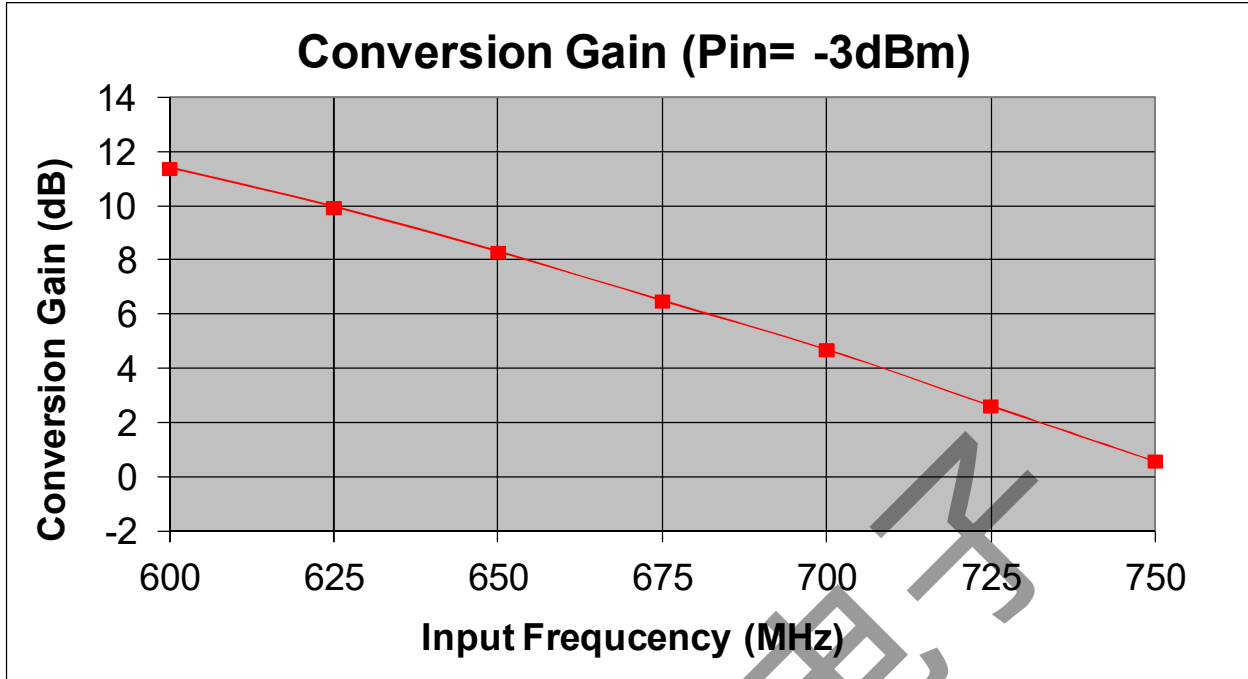
Electrical Specifications @ +25 °C, $Z_{IN} = Z_{OUT} = 50\Omega$, $P_{IN} = -3dBm$, +12V

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	600		750
Output Frequency Range	MHz	1800		2250
Conversion Gain	dB	-1	4	
F0 Isolation *	dB	20	30	
2F0 Isolation *	dB	20	30	
4F0 Isolation *	dB	20	30	
VSWR Input @ 675MHz			1.4:1	2.0:1
Output @ 2025MHz			2.3:1	3.0:1
DC Supply Voltage	V	10	12	15
Operating Current	mA		105	125

* Isolation with respect to output power level

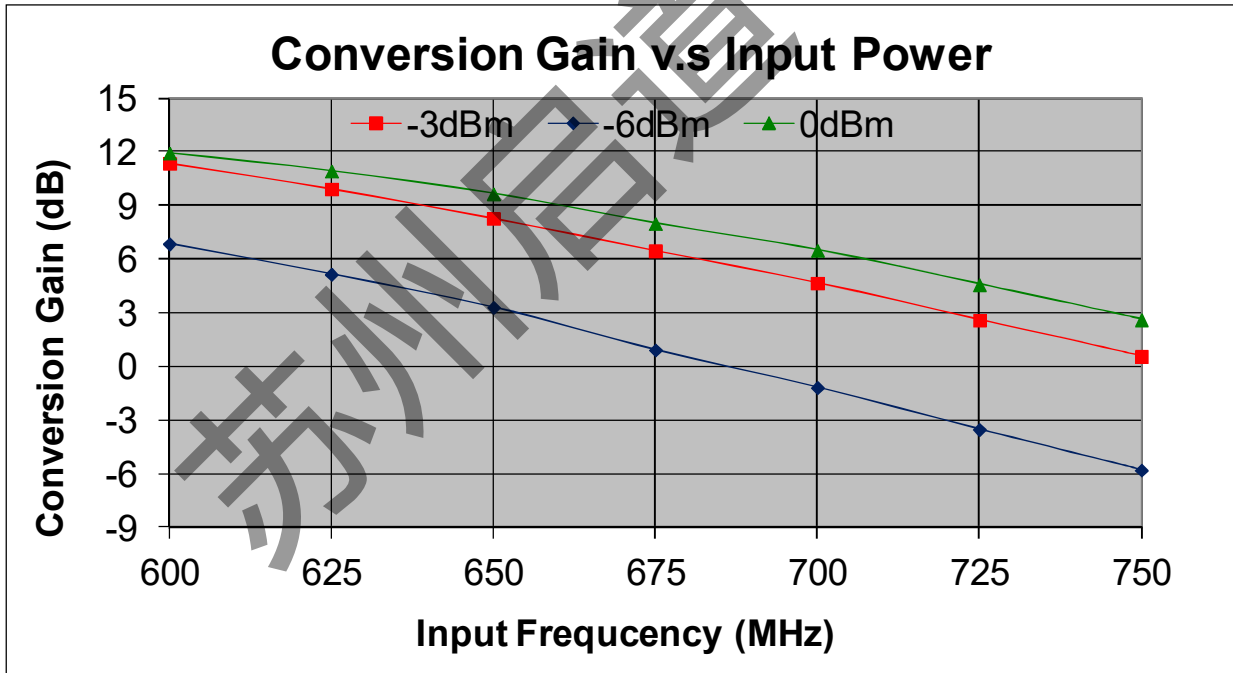
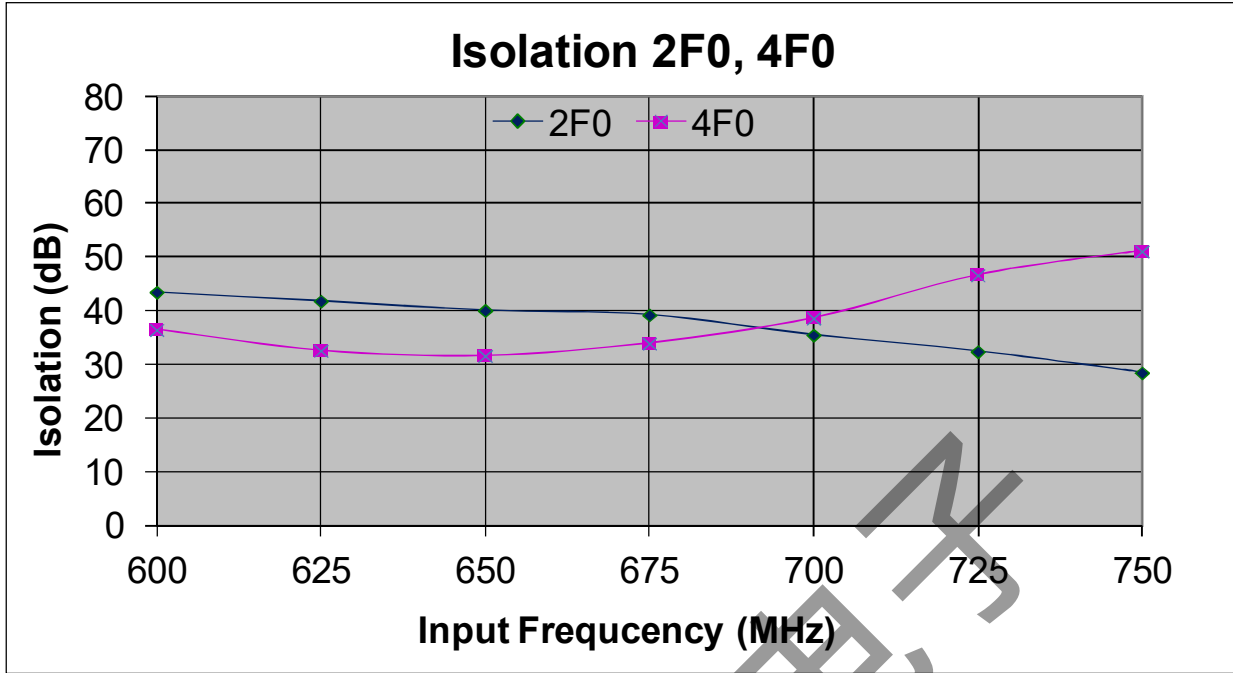
FMR Series

600-750MHz Input Frequency Tripler



FMR Series

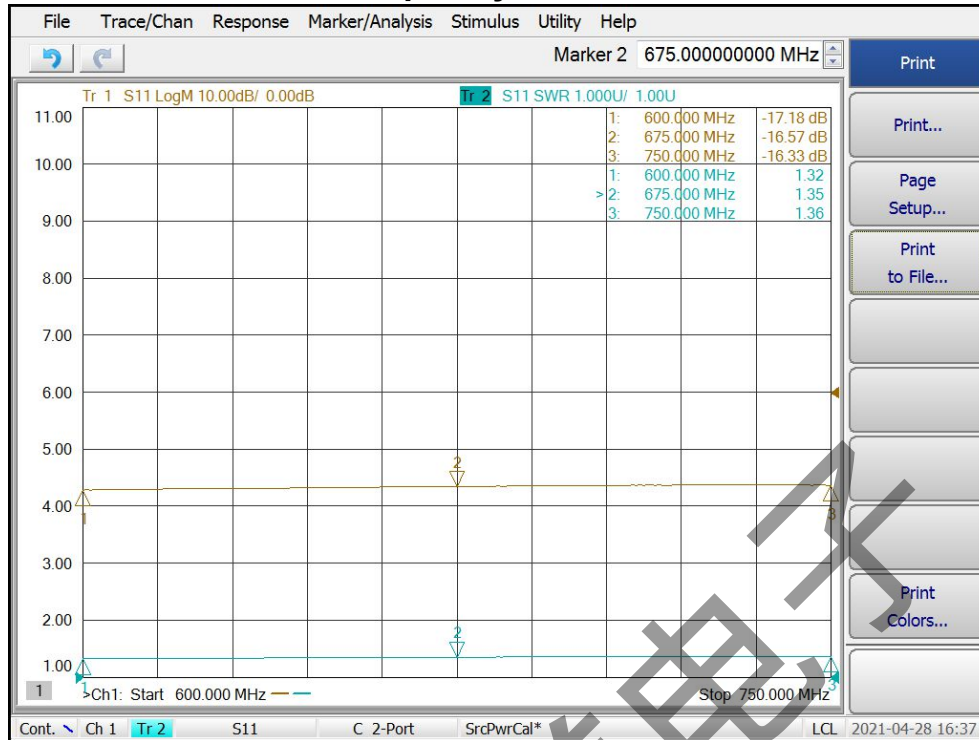
600-750MHz Input Frequency Tripler



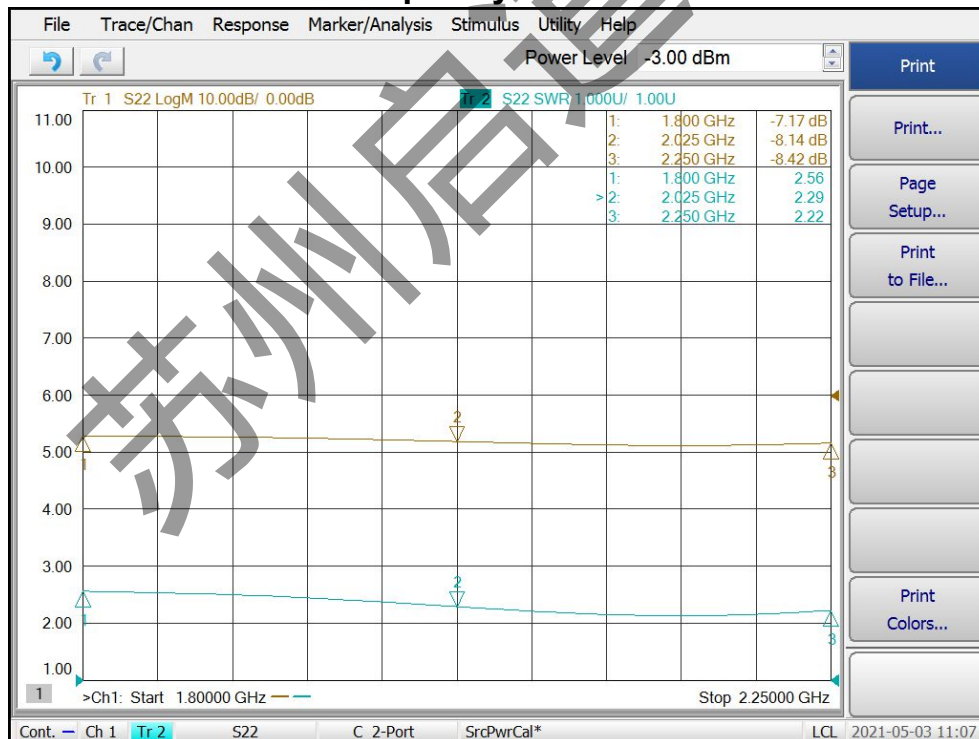
FMR Series

600-750MHz Input Frequency Tripler

Return Loss S11 vs Frequency



Return Loss S22 vs Frequency



FMR Series

600-750MHz Input Frequency Tripler

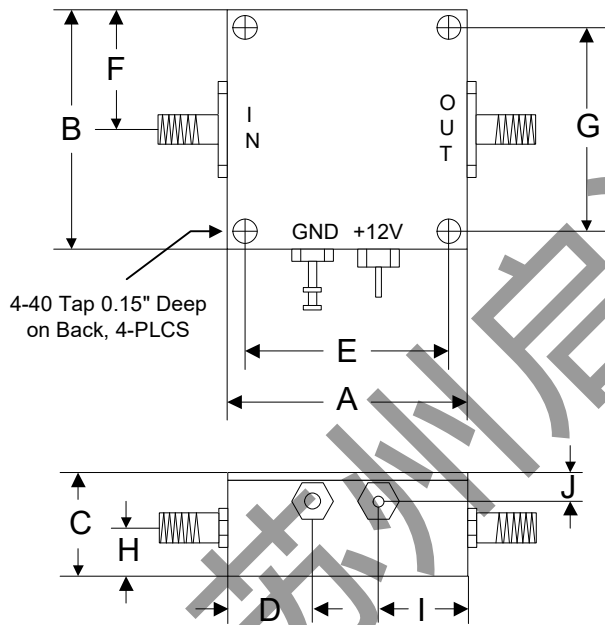
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+23dBm
Supply DC Voltage	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +105 °C

ESD Sensitive Material



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