

FMR Series

450-600MHz Input Frequency Tripler

Features

- Input Frequency: 450 – 600MHz
- Output Frequency: 1350 – 1800MHz
- Conversion Gain: 9dB
- F0 Isolation: 35dB
- Input Drive Level: -3dBm
- DC Power: +12V
- SMA Connector

Performance@525MHz, Pin= -3dBm

Description

FMR-3-3 is an active frequency tripler operates with input frequency range from 450 to 600MHz and output frequency range from 1350 to 1800MHz.

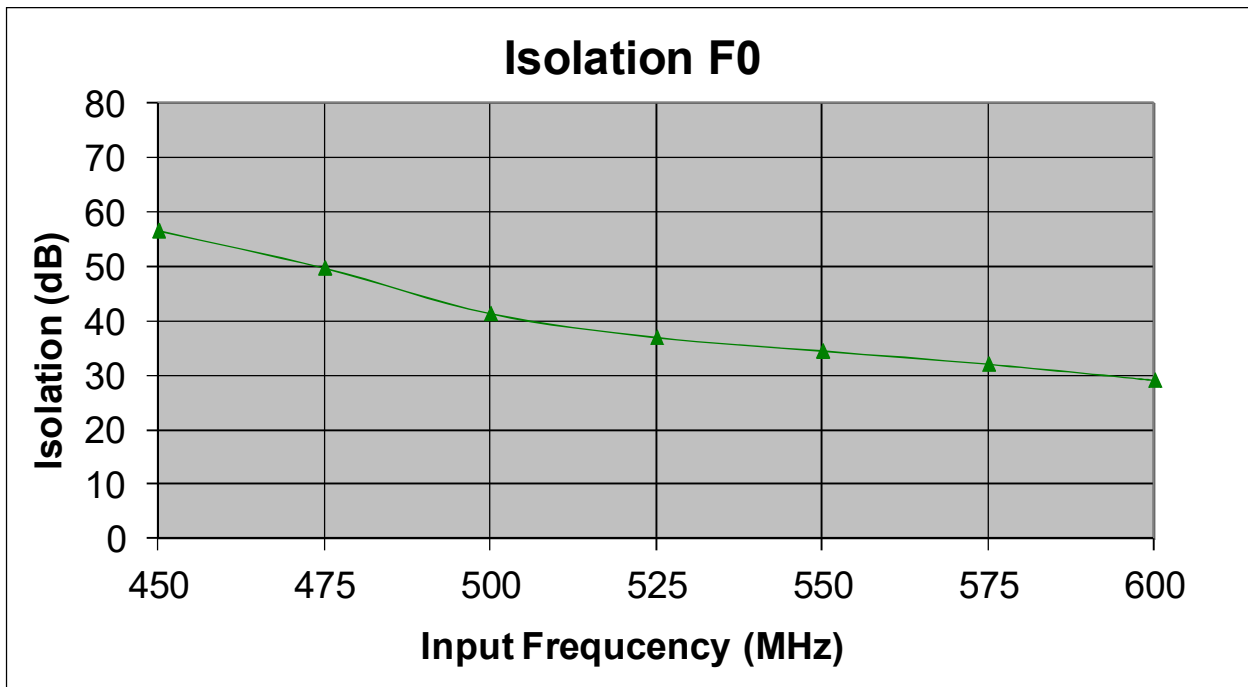
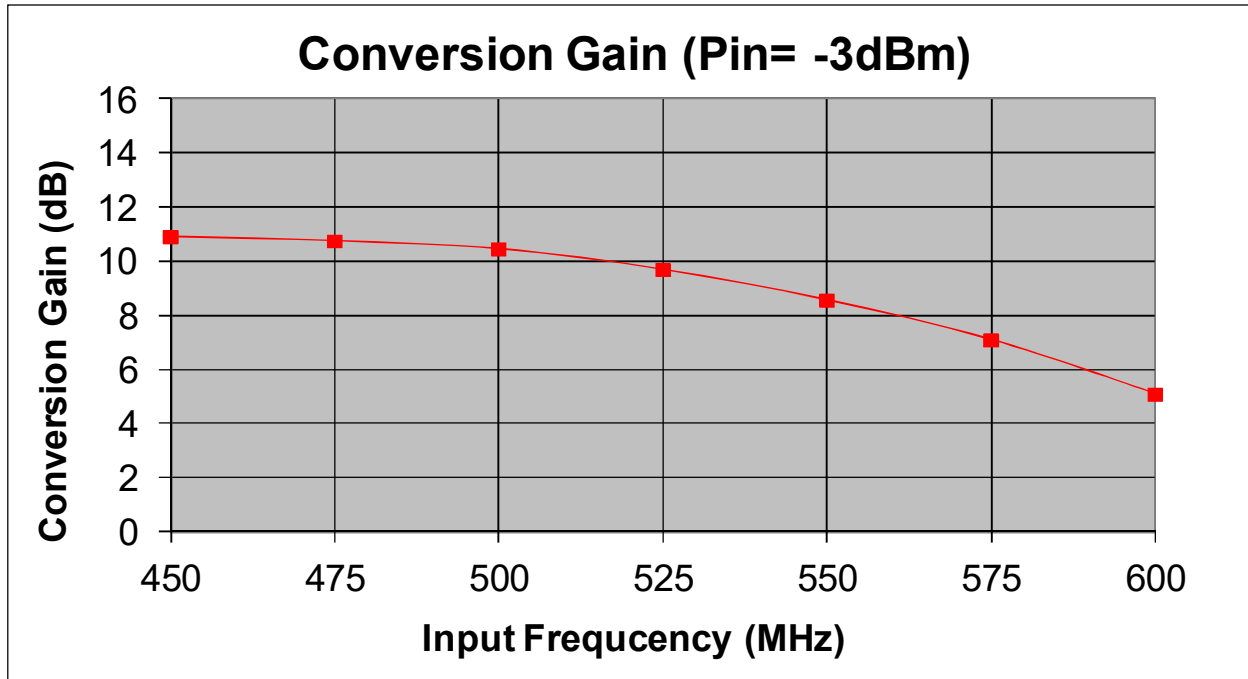
Picture

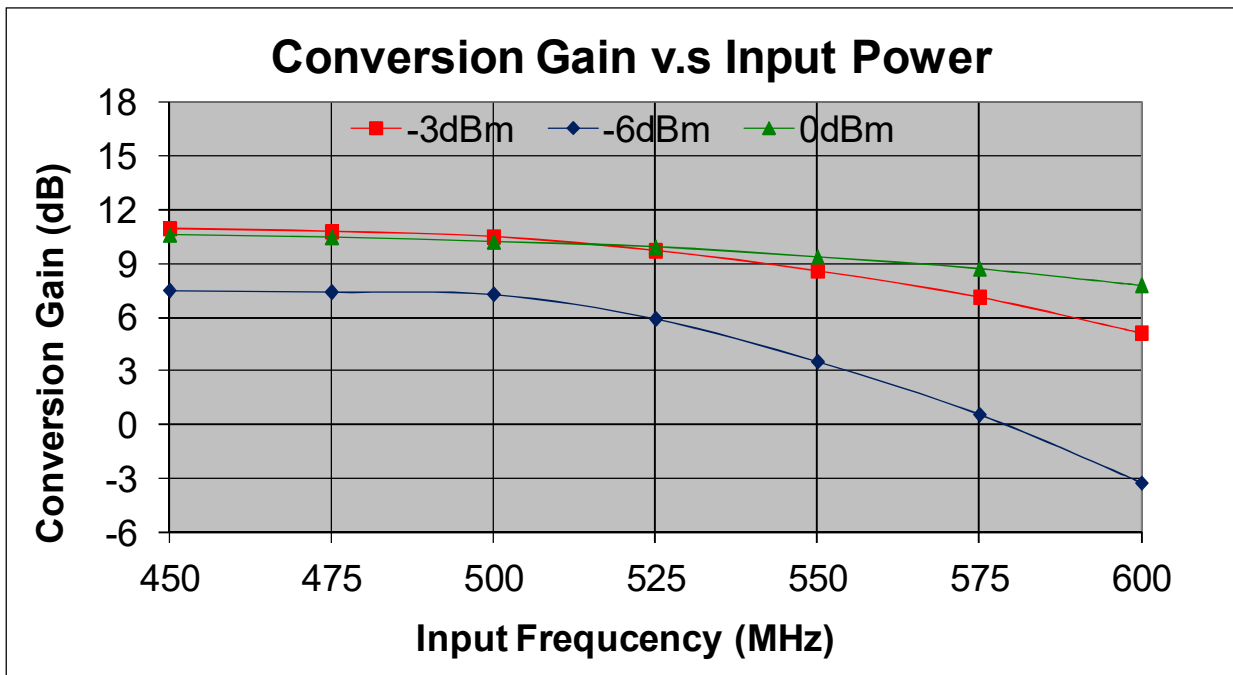
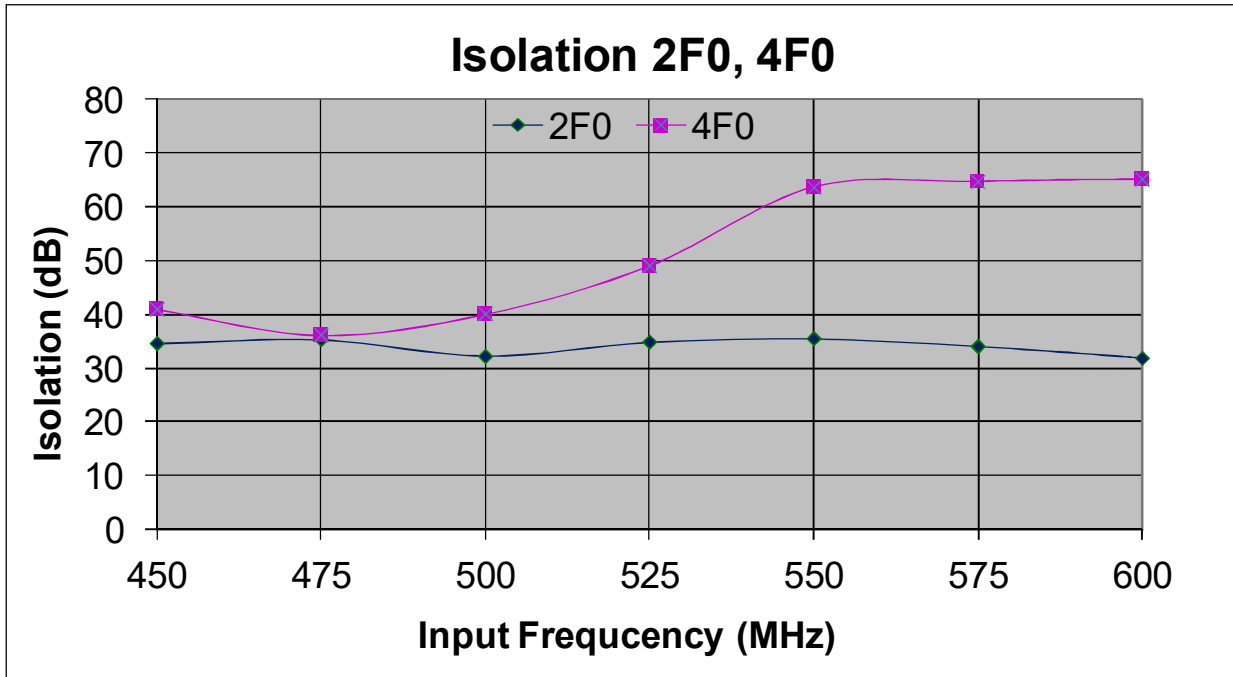


Electrical Specifications @ +25 °C, $Z_{IN} = Z_{OUT} = 50\Omega$, $P_{IN} = -3\text{dBm}$, +12V

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	450		600
Output Frequency Range	MHz	1350		1800
Conversion Gain	dB	3	9	
F0 Isolation *	dB	25	35	
2F0 Isolation *	dB	20	30	
4F0 Isolation *	dB	30	40	
VSWR Input @ 525MHz			1.3:1	1.8:1
Output @ 1575MHz			1.6:1	2.2:1
DC Supply Voltage	V	10	12	15
Operating Current	mA		105	125

* Isolation with respect to output power level

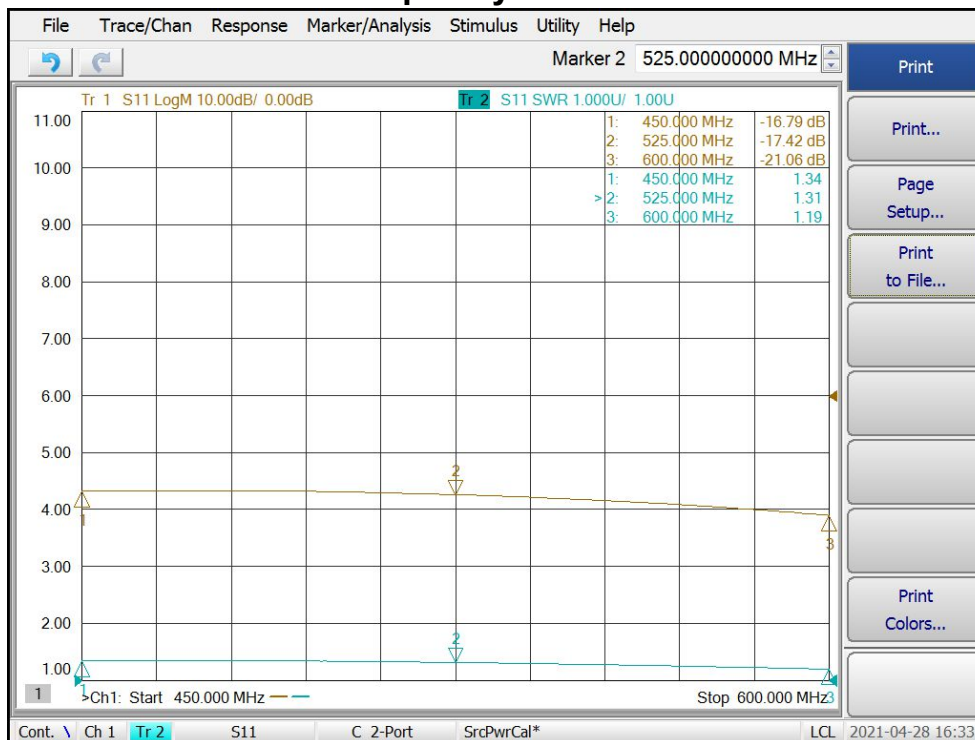




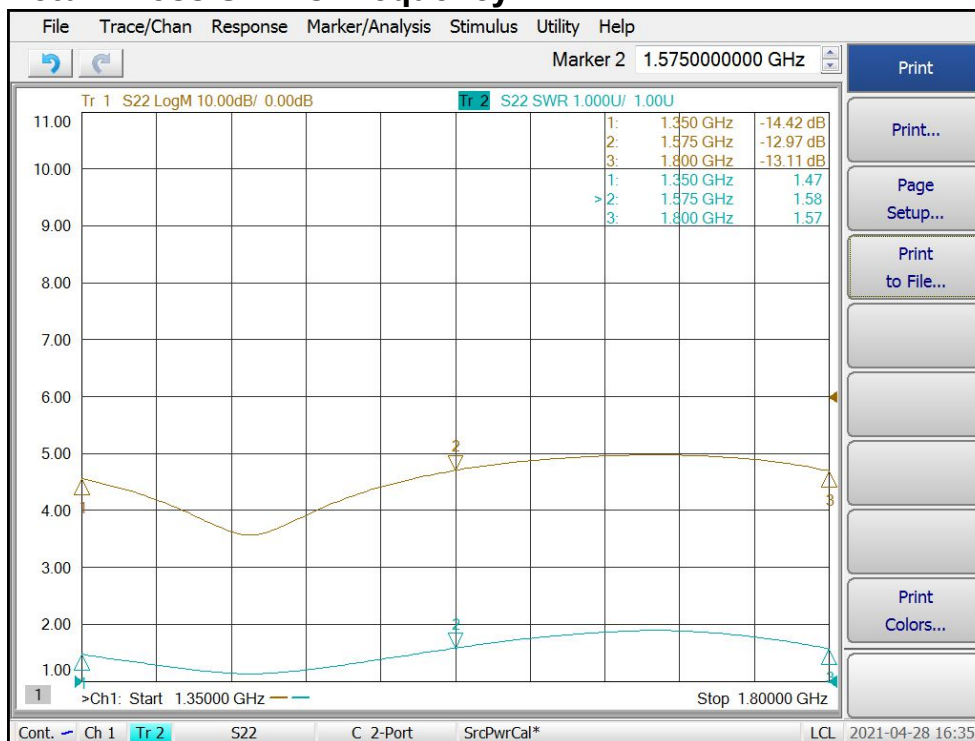
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Return Loss S11 vs Frequency



Return Loss S22 vs Frequency



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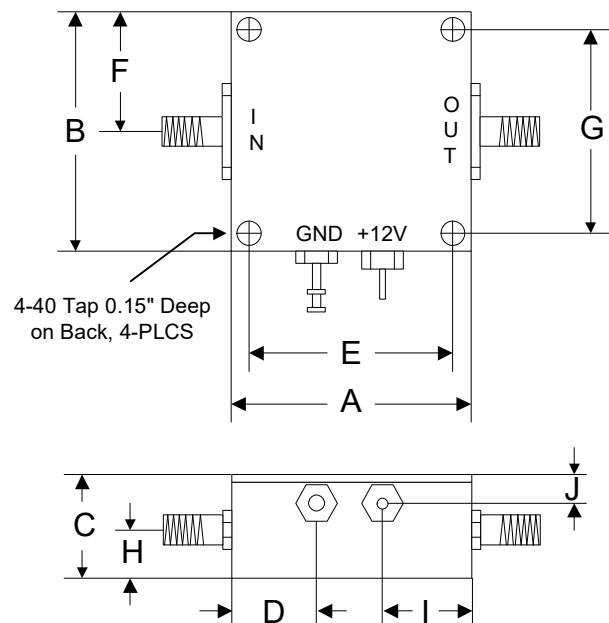
Absolute Maximum Ratings

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