

FMR Series

700-1000MHz Input Frequency Tripler

Features

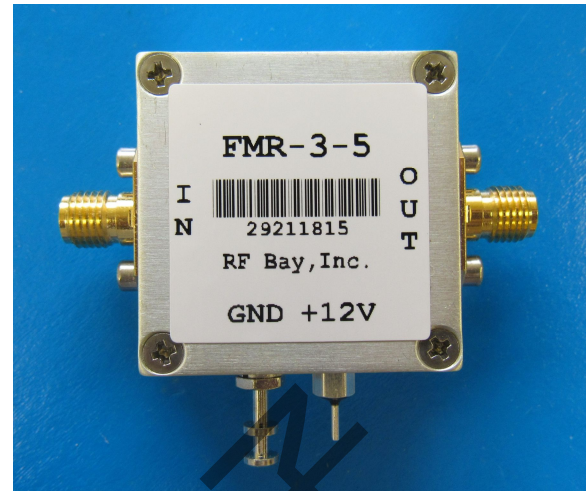
- Input Frequency: 700 – 1000MHz
- Output Frequency: 2100 – 3000MHz
- Conversion Gain: 12dB
- F0 Isolation: 25dB
- Input Drive Level: 0dBm
- DC Power: +12V
- SMA Connector

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.

Picture



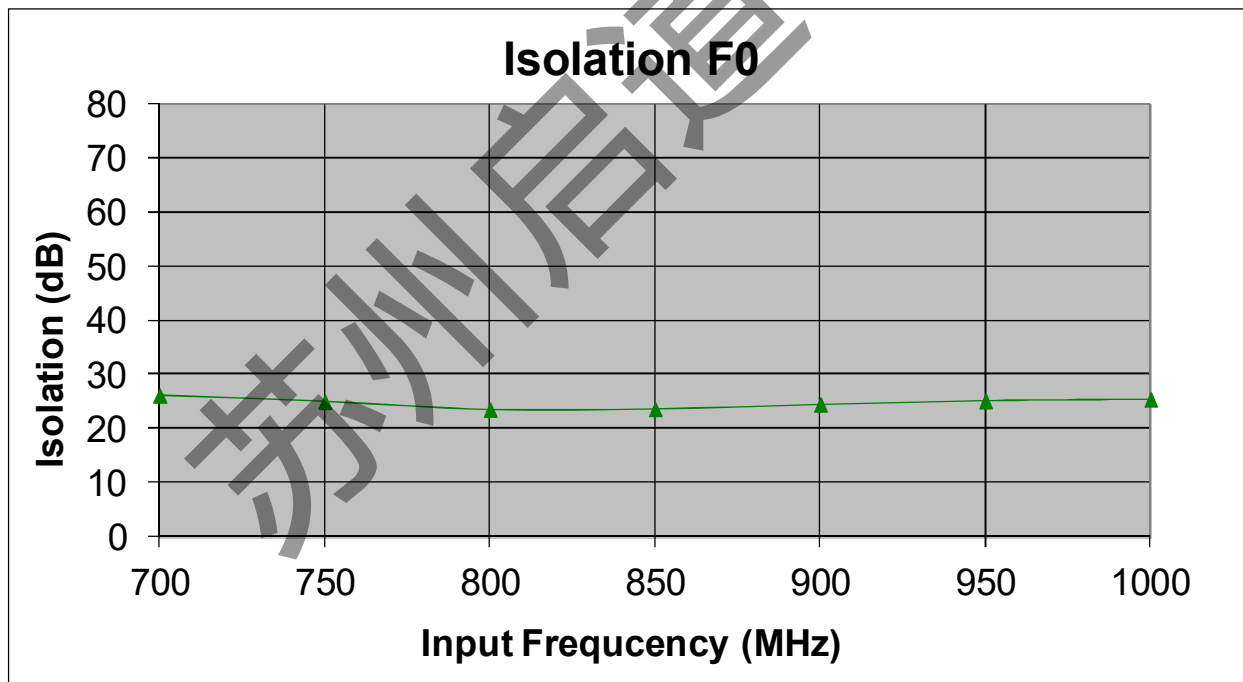
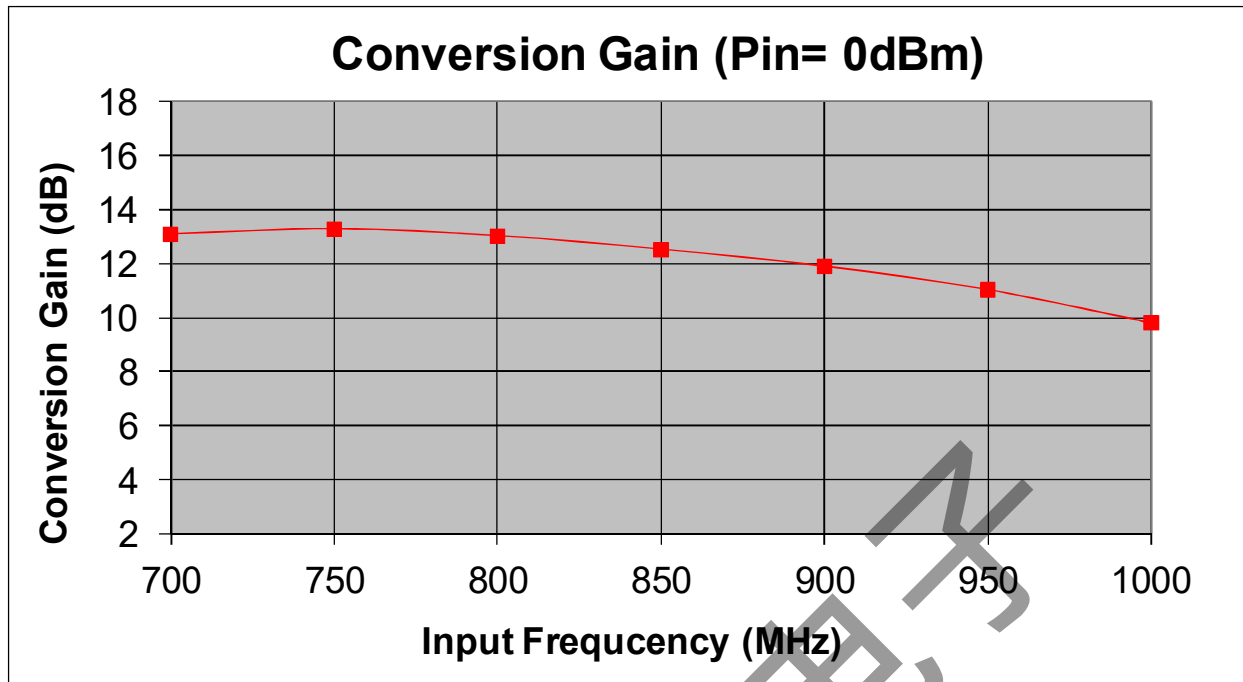
Electrical Specifications @ +25 °C, $Z_{IN} = Z_{OUT} = 50\Omega$, $P_{IN} = 0\text{dBm}$, +12V

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	700		1000
Output Frequency Range	MHz	2100		3000
Conversion Gain	dB	7	12	
F0 Isolation *	dB	15	25	
2F0 Isolation *	dB	25	35	
4F0 Isolation *	dB	25	35	
VSWR Input @ 850MHz			1.1:1	1.5:1
Output @ 2550MHz			1.6:1	2.5:1
DC Supply Voltage	V	10	12	15
Operating Current	mA		150	170

* Isolation with respect to output power level

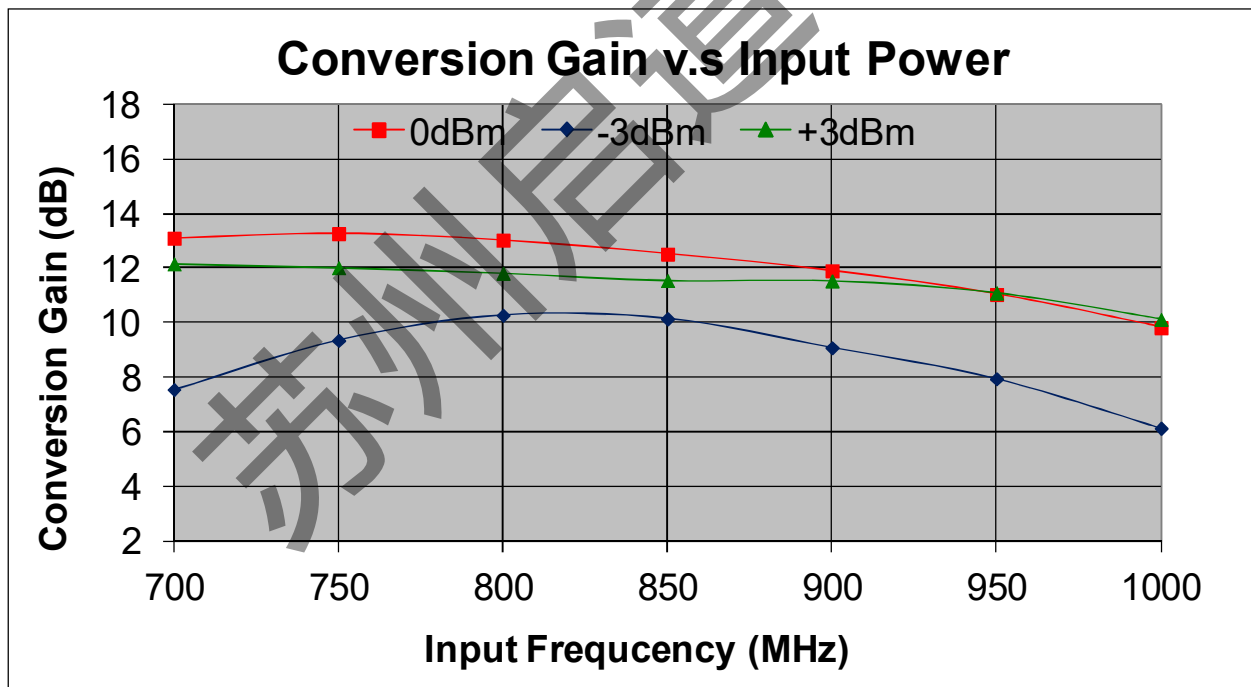
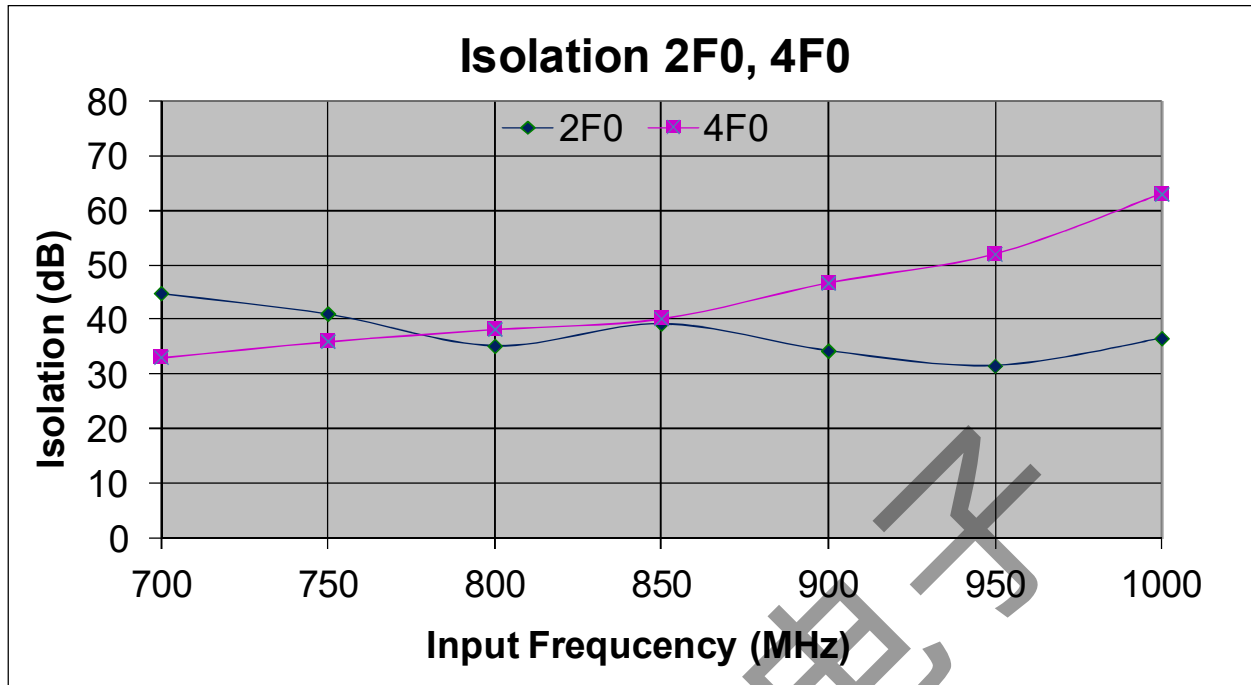
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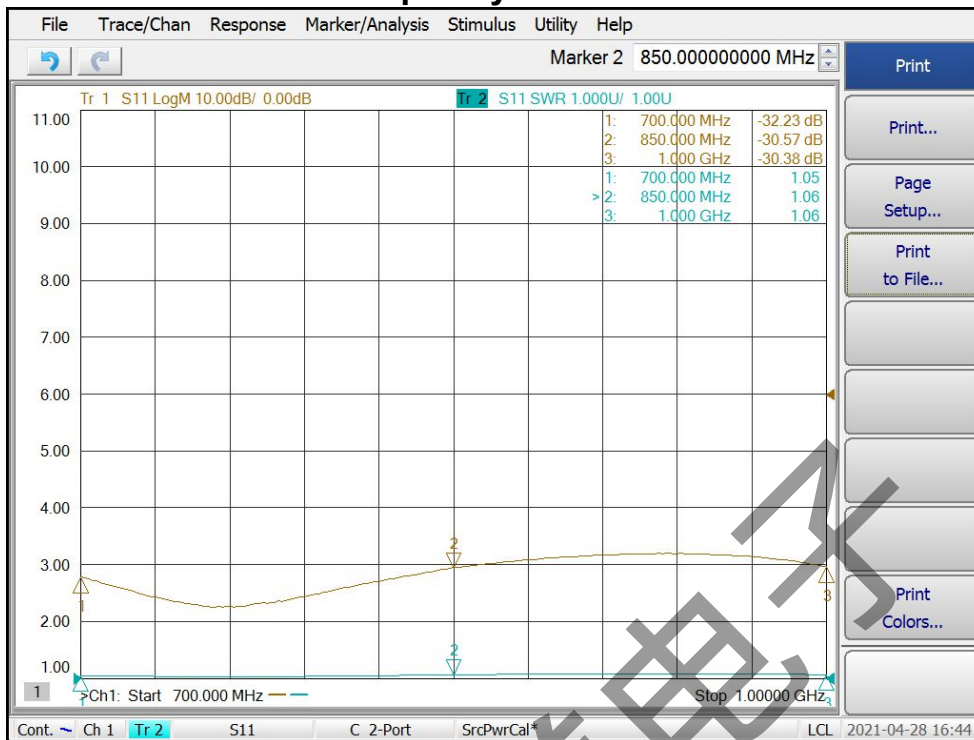
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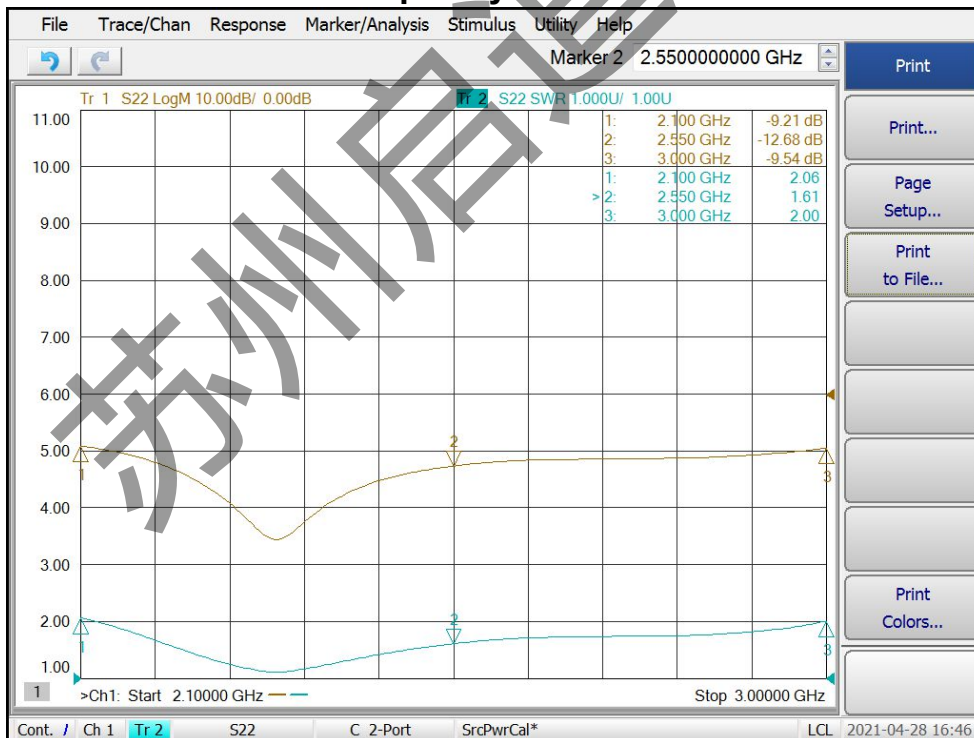
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Return Loss S11 vs Frequency



Return Loss S22 vs Frequency



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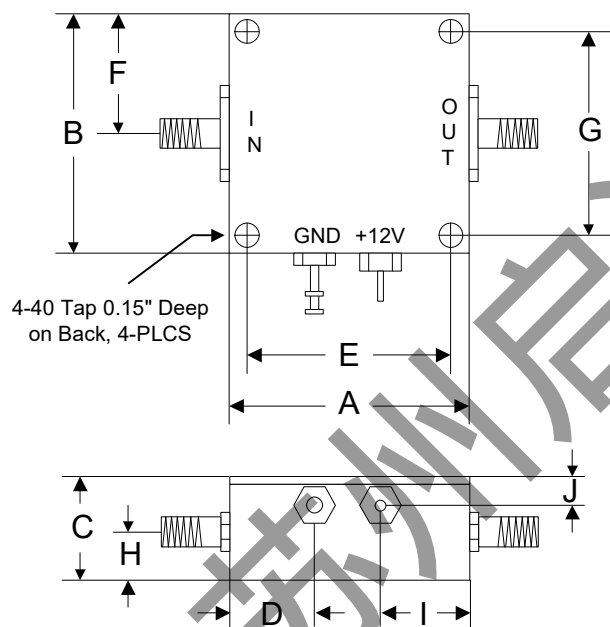
Absolute Maximum Ratings

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