

FMR Series

950-1500MHz Input Frequency Tripler

Features

- Input Frequency: 950 – 1500MHz
- Output Frequency: 2850 – 4500MHz
- Conversion Gain: 9dB
- F0 Isolation: 20dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

Picture



Performance@1200MHz, Pin= 0dBm

Description

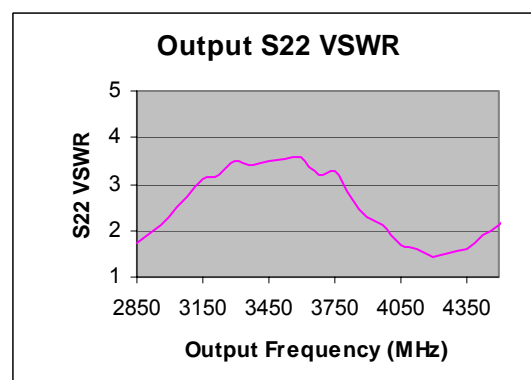
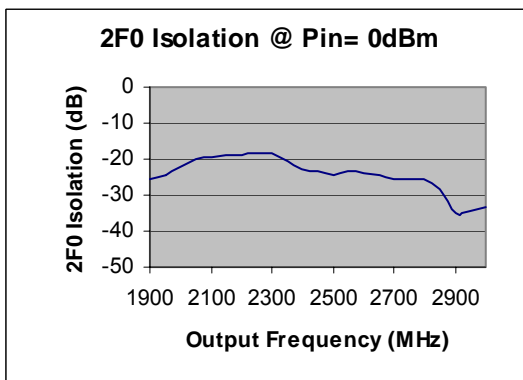
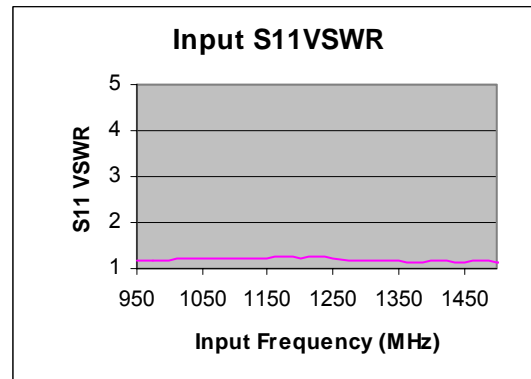
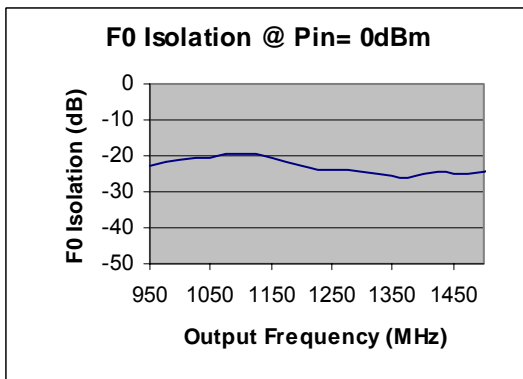
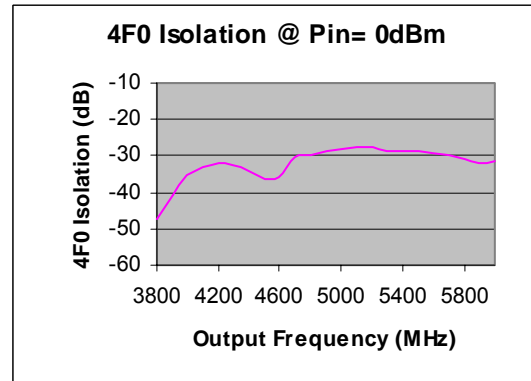
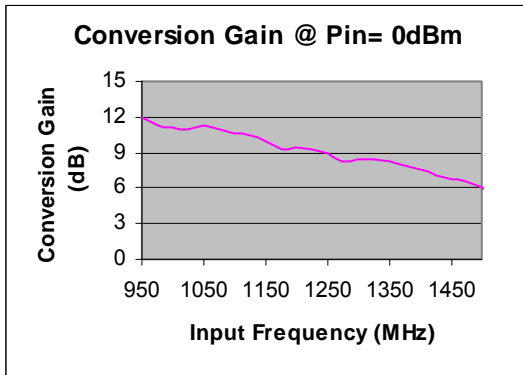
FMR-3-6 is an active frequency tripler operates with input frequency range from 950 to 1500MHz and output frequency range from 2850 to 4500MHz.

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

| Parameter | Unit | Min. | Typ. | Max. |
|-----------------------------|------|------|--------|------|
| Input Frequency Range | MHz | 950 | | 1500 |
| Output Frequency Range | MHz | 2850 | | 4500 |
| Conversion Gain | dB | 6 | 9 | 12 |
| F ₀ Isolation * | dB | | 20 | |
| 2F ₀ Isolation * | dB | | 20 | |
| 4F ₀ Isolation * | dB | | 30 | |
| 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

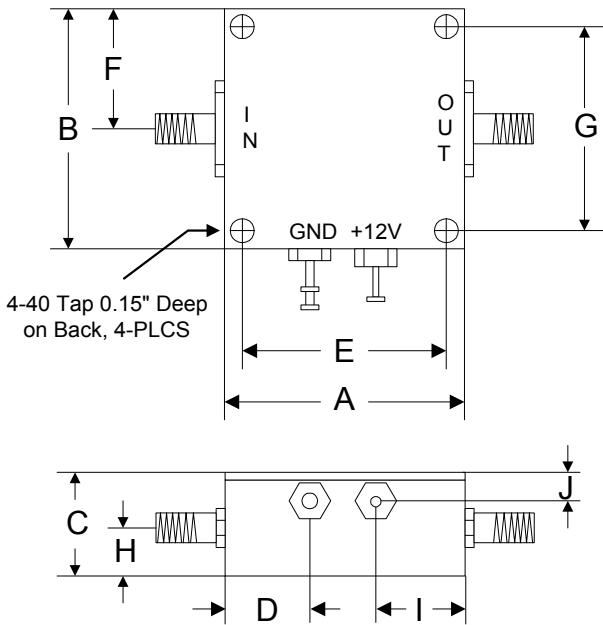
Typical Performance @ +25 °C



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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |