

## FVR Series

## 480-500MHz Input Frequency Multiply by 5

### Features

- Input Frequency: 480 – 500MHz
- Output Frequency: 2400 – 2500MHz
- Conversion Gain: 9dB
- F0 Isolation: 31dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

Performance@490MHz, Pin= 0dBm

### Description

FVR-2450 is an active frequency multiply by 5 operates with input frequency range from 480 to 500MHz and output frequency range from 2400 to 2500MHz.

### Picture

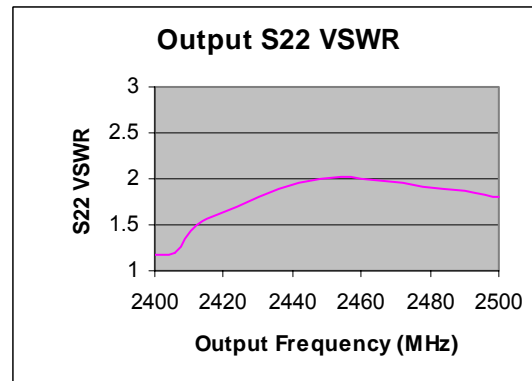
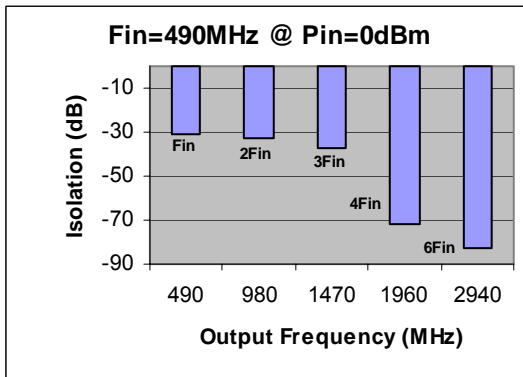
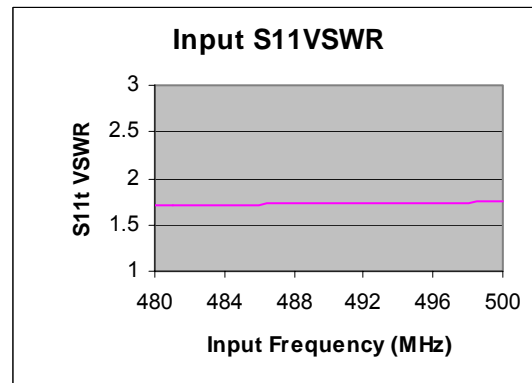
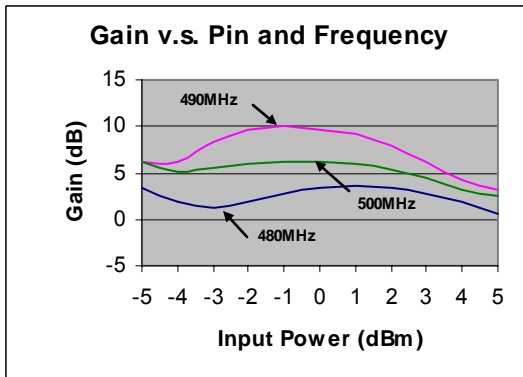
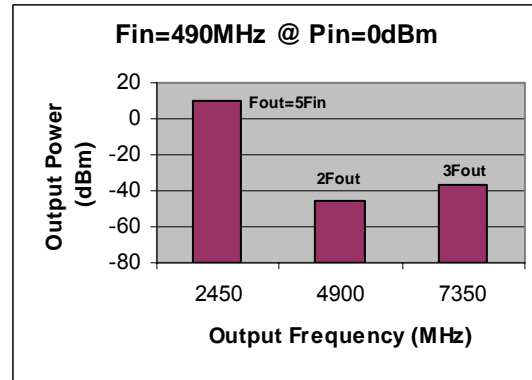
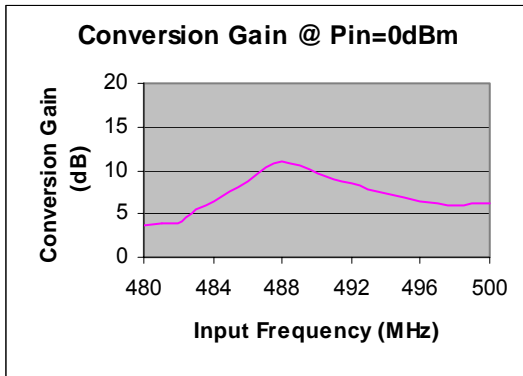


### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ohms, Pin = 0dBm

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	480	490	500
Output Frequency Range	MHz	2400	2450	2500
Conversion Gain	dB	3	9	
Output Power F <sub>in</sub> =490MHz/F <sub>out</sub> =2450MHz	dBm		9	
F <sub>o</sub> Isolation * F <sub>in</sub> =490MHz/F <sub>in</sub> =490MHz	dB		31	
2F <sub>o</sub> Isolation * F <sub>in</sub> =490MHz/2F <sub>in</sub> =980MHz	dB		33	
3F <sub>o</sub> Isolation * F <sub>in</sub> =490MHz/4F <sub>in</sub> =1470MHz	dB		37	
4F <sub>o</sub> Isolation * F <sub>in</sub> =490MHz/4F <sub>in</sub> =1960MHz	dB		72	
6F <sub>o</sub> Isolation * F <sub>in</sub> =490MHz/4F <sub>in</sub> =2940MHz	dB		83	
Harmonic Output * F <sub>in</sub> =490MHz/2F <sub>out</sub> =4900MHz	dBc		55	
F <sub>in</sub> =490MHz/3F <sub>out</sub> =7350MHz	dBc		45	
VSWR Input/Output	1:		1.8/2.0	
DC Power Input	V	10	12	15
Operating Current	mA		160	

\* Isolation with respect to desired frequency output power level at 2450MHz

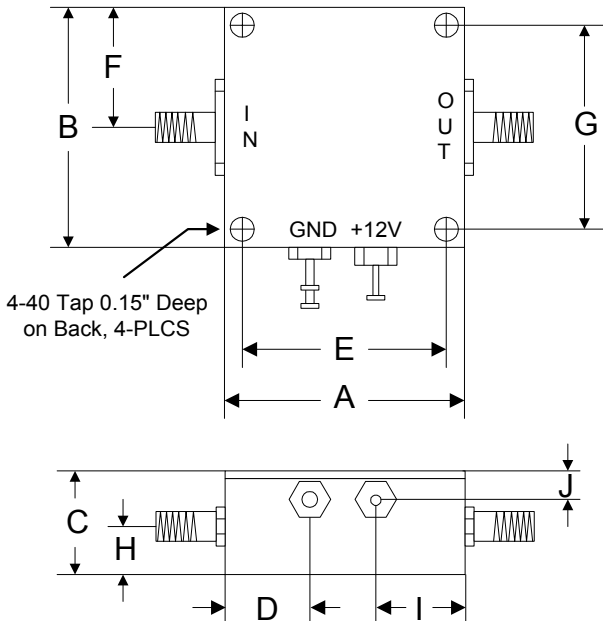
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
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