

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



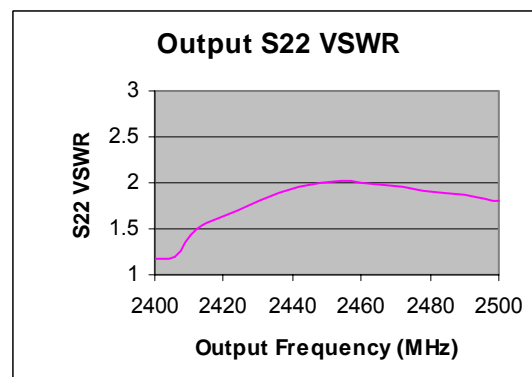
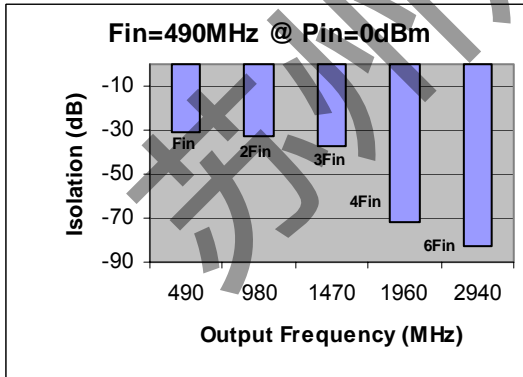
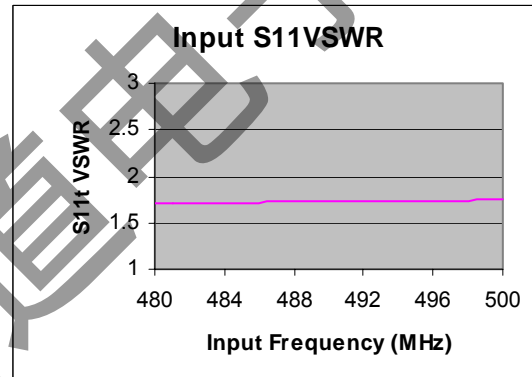
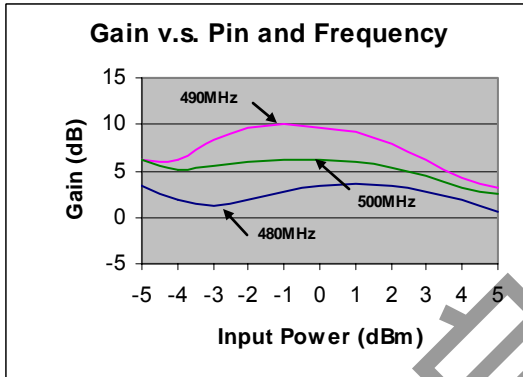
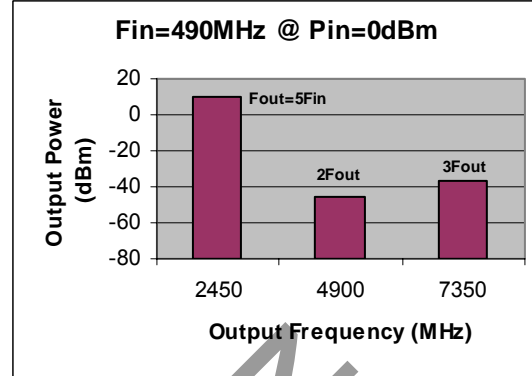
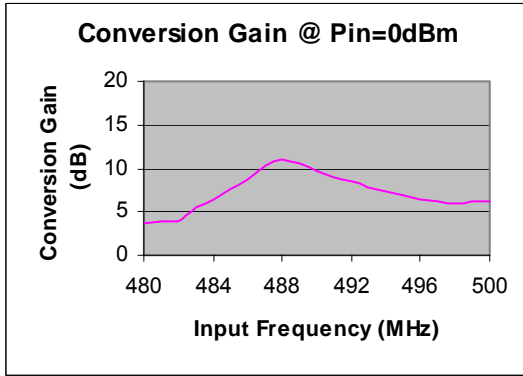
Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \text{ Ohms}$, Pin = 0dBm

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 $F_{in}=490\text{MHz}/F_{out}=2450\text{MHz}$	dBm		9	
F ₀ Isolation * $F_{in}=490\text{MHz}/F_{in}=490\text{MHz}$	dB		31	
2F ₀ Isolation * $F_{in}=490\text{MHz}/2F_{in}=980\text{MHz}$	dB		33	
3F ₀ Isolation * $F_{in}=490\text{MHz}/4F_{in}=1470\text{MHz}$	dB		37	
4F ₀ Isolation * $F_{in}=490\text{MHz}/4F_{in}=1960\text{MHz}$	dB		72	
6F ₀ Isolation * $F_{in}=490\text{MHz}/4F_{in}=2940\text{MHz}$	dB		83	
Harmonic Output * $F_{in}=490\text{MHz}/2F_{out}=4900\text{MHz}$	dBc		55	
$F_{in}=490\text{MHz}/3F_{out}=7350\text{MHz}$	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

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Typical Performance @ +25 °C



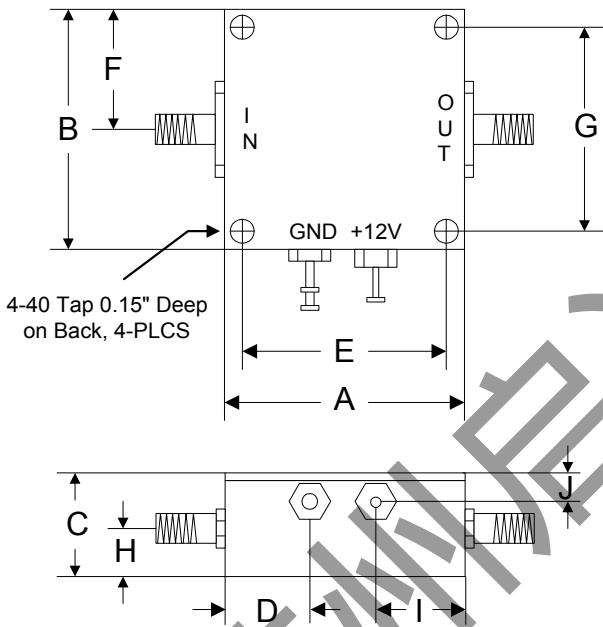
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Absolute Maximum Ratings

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
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