

FVR Series**164-170MHz Input Frequency Multiply by 5****Features**

- Input Frequency: 164 – 170MHz
- Output Frequency: 820 – 850MHz
- Conversion Gain: 2dB
- F0 Isolation: 90dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

Performance@167MHz, Pin= 0dBm

Description

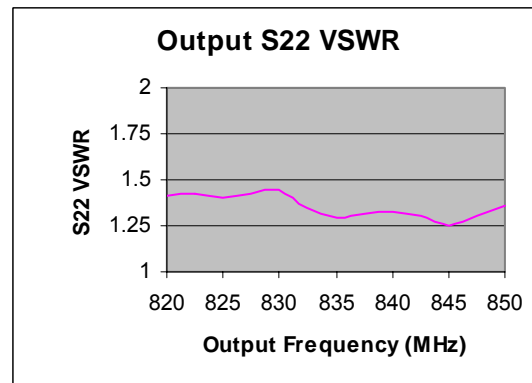
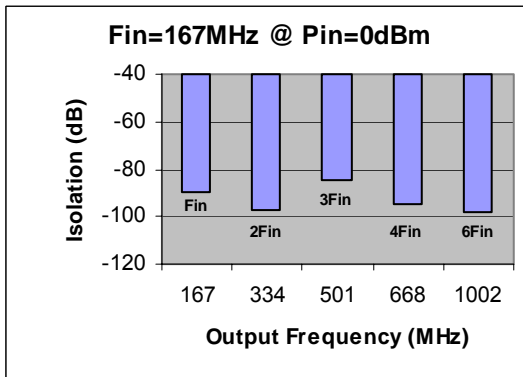
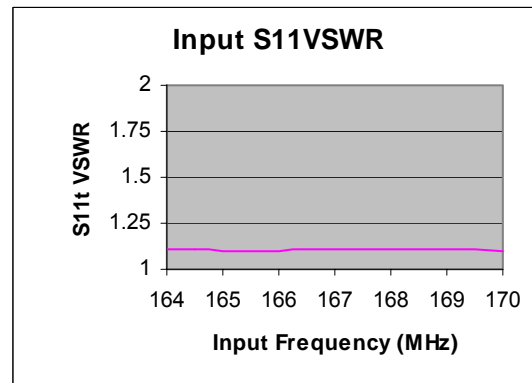
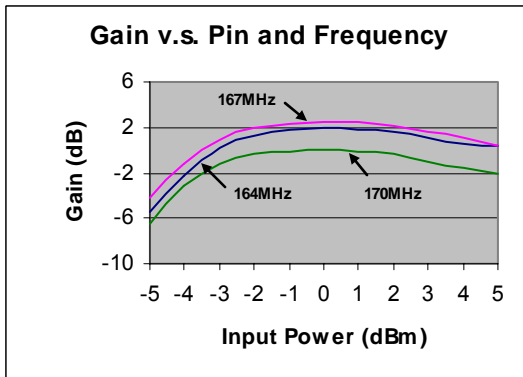
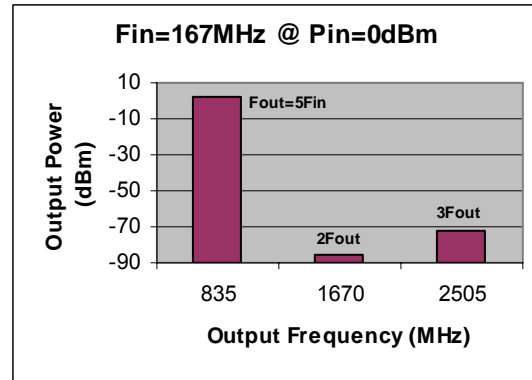
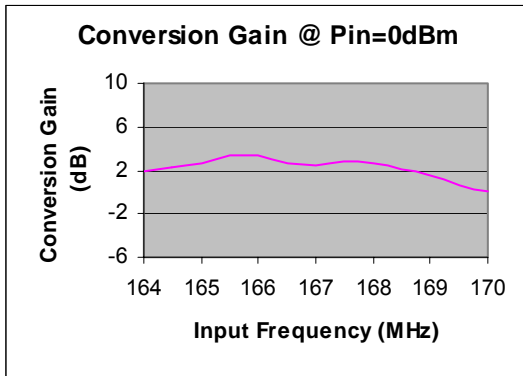
FVR-835 is an active frequency multiply by 5 operates with input frequency range from 164 to 170MHz and output frequency range from 820 to 850MHz.

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

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	164	167	170
Output Frequency Range	MHz	820	835	850
Conversion Gain	dB	0	2	
Output Power $F_{in}=167\text{MHz}/F_{out}=835\text{MHz}$	dBm		2	
F ₀ Isolation * $F_{in}=167\text{MHz}/F_{in}=334\text{MHz}$	dB		90	
2F ₀ Isolation * $F_{in}=167\text{MHz}/2F_{in}=558\text{MHz}$	dB		97	
3F ₀ Isolation * $F_{in}=167\text{MHz}/4F_{in}=501\text{MHz}$	dB		85	
4F ₀ Isolation * $F_{in}=167\text{MHz}/4F_{in}=668\text{MHz}$	dB		95	
6F ₀ Isolation * $F_{in}=167\text{MHz}/4F_{in}=1002\text{MHz}$	dB		98	
Harmonic Output * $F_{in}=167\text{MHz}/2F_{out}=1670\text{MHz}$	dBc		87	
$F_{in}=167\text{MHz}/3F_{out}=2505\text{MHz}$	dBc		73	
VSWR Input/Output	1:		1.1/1.5	
DC Power Input	V	10	12	15
Operating Current	mA		150	

* Isolation with respect to desired frequency output power level at 835MHz

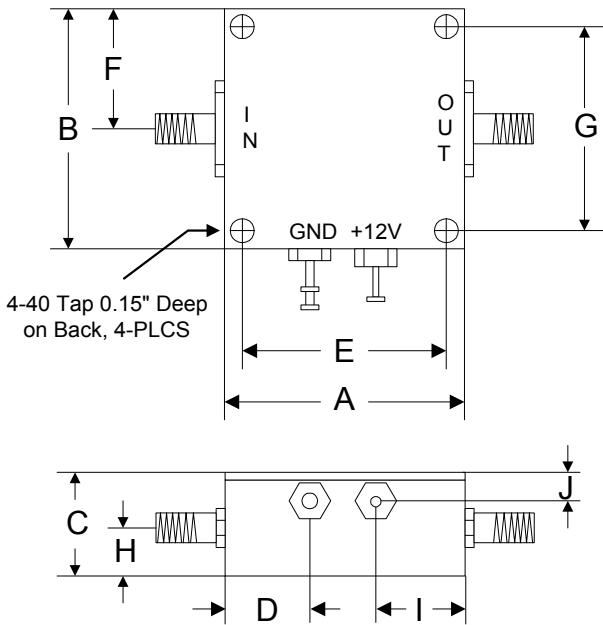
Typical Performance @ +25 °C



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
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