

## FVR Series

## 360-378MHz Input Frequency Multiply by 5

### Features

- Input Frequency: 360 – 378MHz
- Output Frequency: 1800 – 1890MHz
- Conversion Gain: 7.5dB
- F0 Isolation: 40dB
- Input Drive Level: -5dBm
- DC Power: 12V
- SMA Connector

### Picture



Performance@369MHz, Pin= -5dBm

### Description

FVR-1845 is an active frequency multiply by 5 operates with input frequency range from 360 to 369MHz and output frequency range from 1800 to 1890MHz.

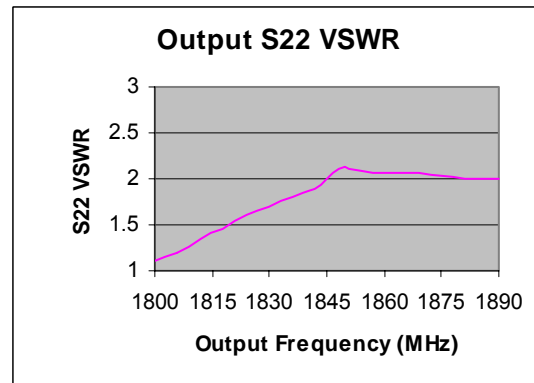
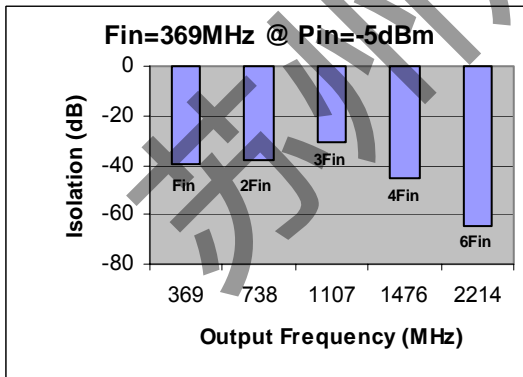
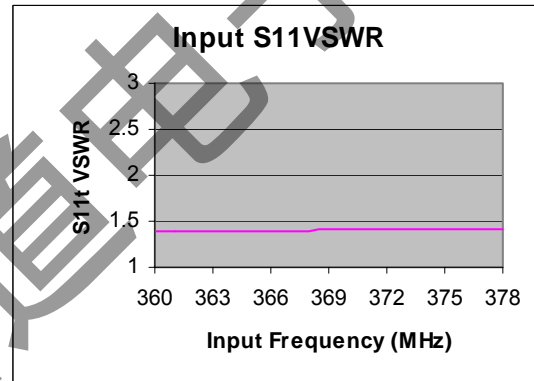
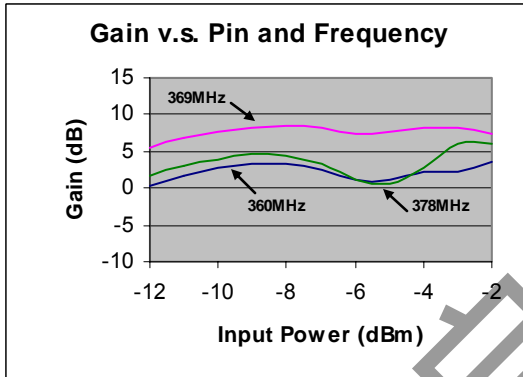
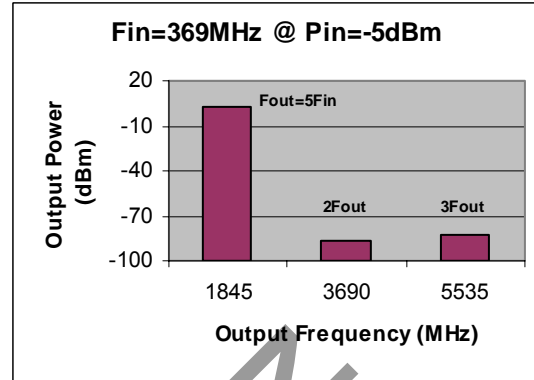
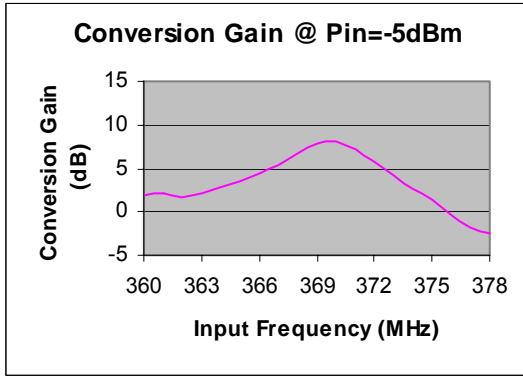
### Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \text{ Ohms}$ , Pin = -5dBm

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	360	369	378
Output Frequency Range	MHz	1800	1845	1890
Conversion Gain	dB	0.5	7.5	
Output Power $F_{in}=369\text{MHz}/F_{out}=1845\text{MHz}$	dBm		2.5	
F <sub>o</sub> Isolation * $F_{in}=369\text{MHz}/F_{in}=369\text{MHz}$	dB		40	
2F <sub>o</sub> Isolation * $F_{in}=369\text{MHz}/2F_{in}=738\text{MHz}$	dB		38	
3F <sub>o</sub> Isolation * $F_{in}=369\text{MHz}/4F_{in}=1107\text{MHz}$	dB		30	
4F <sub>o</sub> Isolation * $F_{in}=369\text{MHz}/4F_{in}=1476\text{MHz}$	dB		45	
6F <sub>o</sub> Isolation * $F_{in}=369\text{MHz}/4F_{in}=2214\text{MHz}$	dB		65	
Harmonic Output * $F_{in}=369\text{MHz}/2F_{out}=3690\text{MHz}$	dBc		90	
$F_{in}=369\text{MHz}/3F_{out}=5535\text{MHz}$	dBc		85	
VSWR Input/Output	1:		1.4/2.1	
DC Power Input	V	10	12	15
Operating Current	mA		170	

\* Isolation with respect to desired frequency output power level at 1845MHz

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**Typical Performance @ +25 °C**



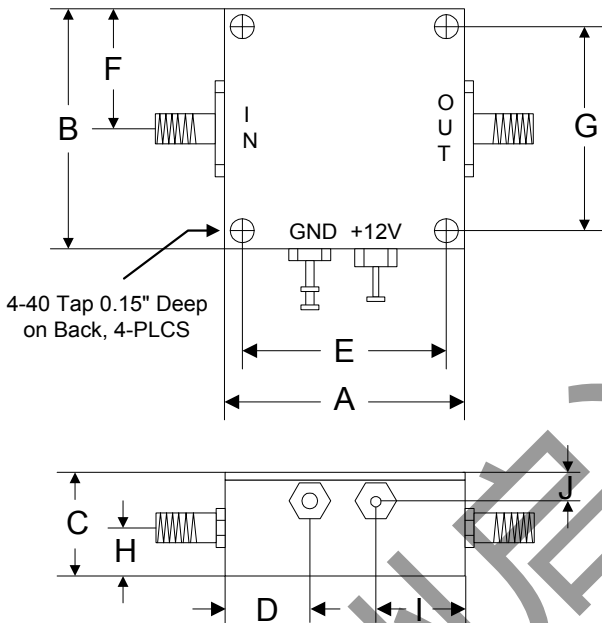
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### Absolute Maximum Ratings

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
<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