

## FVR Series 173-179MHz Input Frequency Multiply by 5

### Features

- Input Frequency: 173 – 179MHz
- Output Frequency: 865 – 895MHz
- Conversion Gain: 2dB
- F0 Isolation: 95dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

Performance@176MHz, Pin= 0dBm

### Description

FVR-880 is an active frequency multiply by 5 operates with input frequency range from 173 to 179MHz and output frequency range from 865 to 895MHz.

### Picture



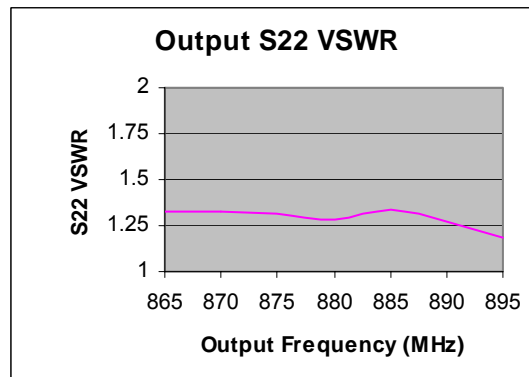
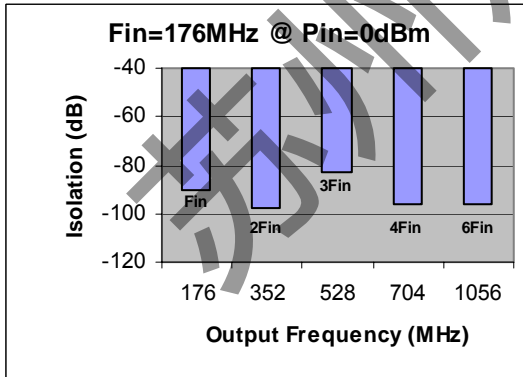
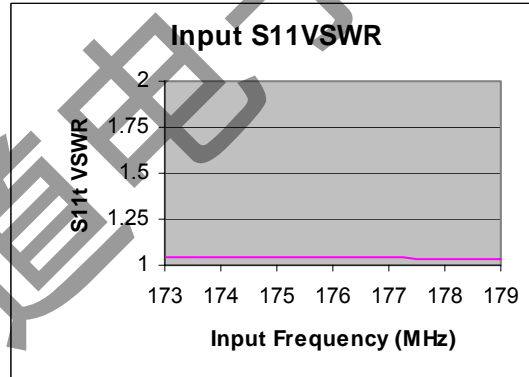
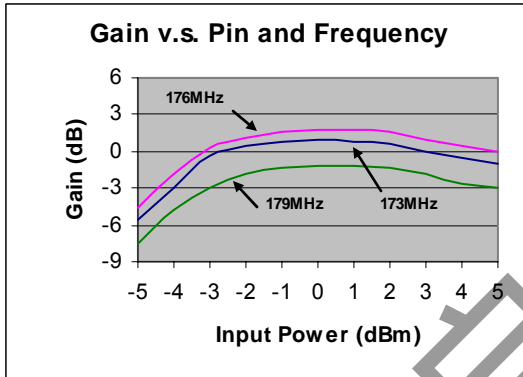
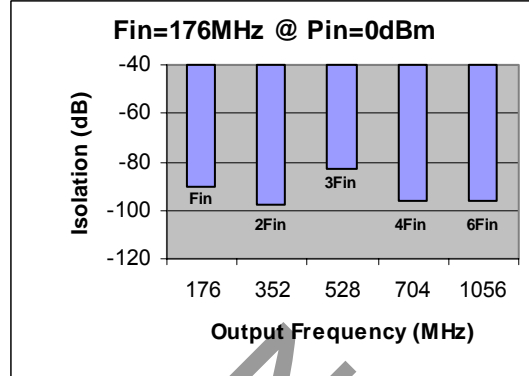
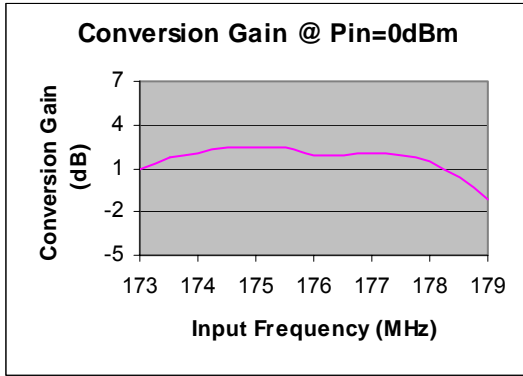
### Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \text{ Ohms}$ , Pin = 0dBm

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	173	176	179
Output Frequency Range	MHz	865	880	895
Conversion Gain	dB	-1	1.5	
Output Power $F_{in}=176\text{MHz}/F_{out}=880\text{MHz}$	dBm		1.5	
F <sub>o</sub> Isolation * $F_{in}=176\text{MHz}/F_{in}=176\text{MHz}$	dB		90	
2F <sub>o</sub> Isolation * $F_{in}=176\text{MHz}/2F_{in}=352\text{MHz}$	dB		98	
3F <sub>o</sub> Isolation * $F_{in}=176\text{MHz}/4F_{in}=528\text{MHz}$	dB		83	
4F <sub>o</sub> Isolation * $F_{in}=176\text{MHz}/4F_{in}=704\text{MHz}$	dB		96	
6F <sub>o</sub> Isolation * $F_{in}=176\text{MHz}/4F_{in}=1056\text{MHz}$	dB		97	
Harmonic Output * $F_{in}=176\text{MHz}/2F_{out}=1760\text{MHz}$	dBc		83	
$F_{in}=176\text{MHz}/3F_{out}=2640\text{MHz}$	dBc		93	
VSWR Input/Output	1:		1.1/1.4	
DC Power Input	V	10	12	15
Operating Current	mA		150	

\* Isolation with respect to desired frequency output power level at 880MHz

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**Typical Performance @ +25 °C**



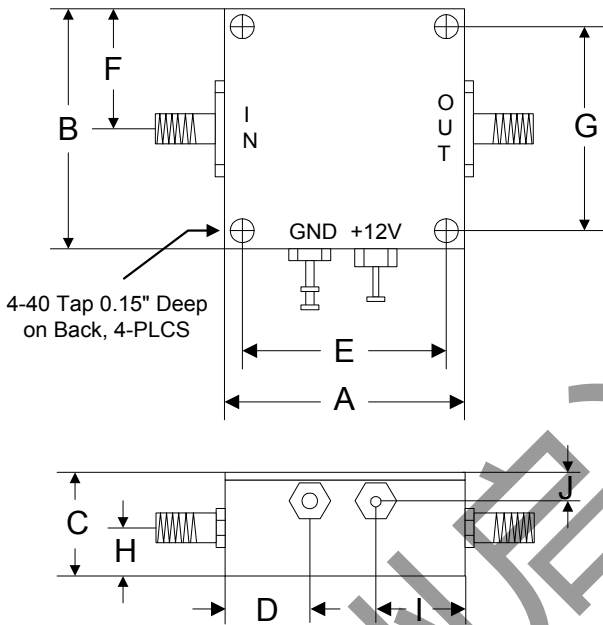
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### Absolute Maximum Ratings

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