

FVR Series 180-186MHz Input Frequency Multiply by 5

Features

- Input Frequency: 180 – 186MHz
- Output Frequency: 900 – 930MHz
- Conversion Gain: 2dB
- F0 Isolation: 60dB
- Input Drive Level: 0dBm
- DC Power: 12V
- SMA Connector

Performance@183MHz, Pin= 0dBm

Description

FVR-915 is an active frequency multiply by 5 operates with input frequency range from 183 to 186MHz and output frequency range from 900 to 930MHz.

Picture



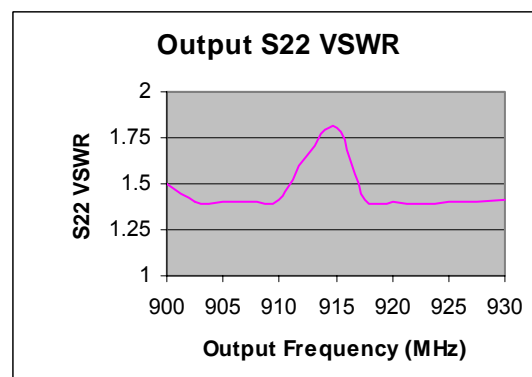
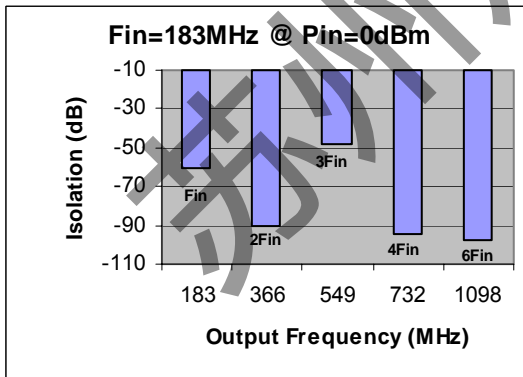
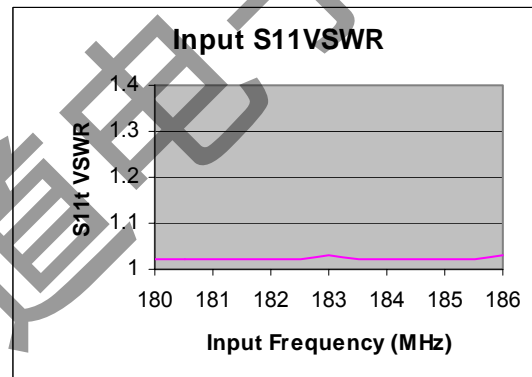
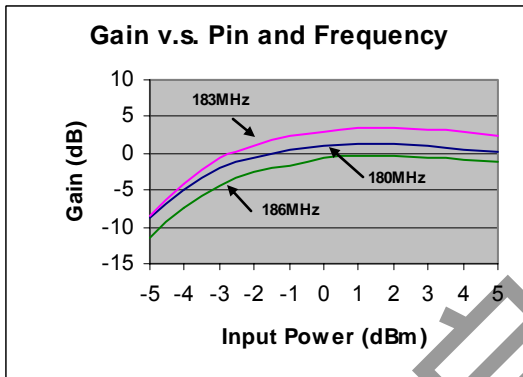
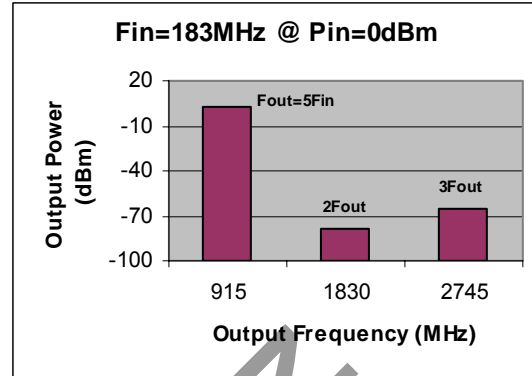
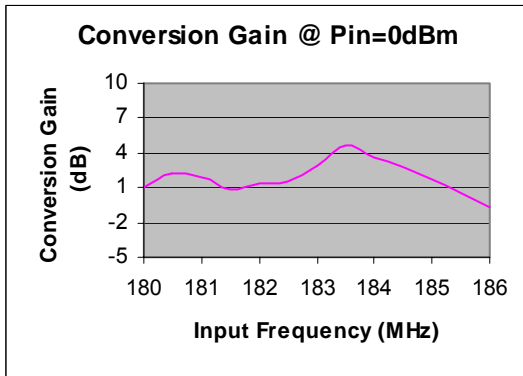
Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \text{ Ohms}$, Pin = 0dBm

Parameter	Unit	Min.	Typ.	Max.
Input Frequency Range	MHz	180	183	186
Output Frequency Range	MHz	900	915	930
Conversion Gain	dB	-1	2	
Output Power $F_{in}=183\text{MHz}/F_{out}=915\text{MHz}$	dBm		2	
F _o Isolation * $F_{in}=183\text{MHz}/F_{in}=183\text{MHz}$	dB		60	
2F _o Isolation * $F_{in}=183\text{MHz}/2F_{in}=366\text{MHz}$	dB		90	
3F _o Isolation * $F_{in}=183\text{MHz}/4F_{in}=549\text{MHz}$	dB		48	
4F _o Isolation * $F_{in}=183\text{MHz}/4F_{in}=732\text{MHz}$	dB		95	
6F _o Isolation * $F_{in}=183\text{MHz}/4F_{in}=1098\text{MHz}$	dB		98	
Harmonic Output * $F_{in}=183\text{MHz}/2F_{out}=1830\text{MHz}$	dBc		80	
$F_{in}=183\text{MHz}/3F_{out}=2745\text{MHz}$	dBc		68	
VSWR Input/Output	1:		1.05/2.0	
DC Power Input	V	10	12	15
Operating Current	mA		150	

* Isolation with respect to desired frequency output power level at 915MHz

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Typical Performance @ +25 °C



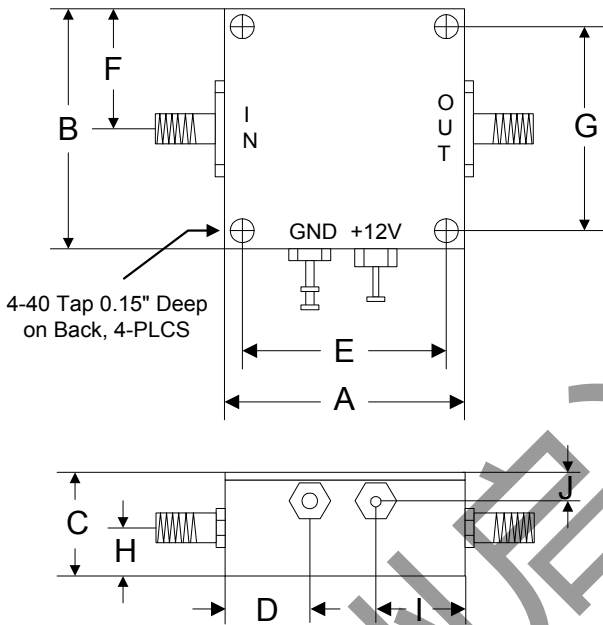
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Absolute Maximum Ratings

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