

## FPS Series

## 0.2–6GHz Divide-By-20 Prescaler

### Features

- Input Frequency: 0.2-6GHz
- Output Frequency: 10-300MHz
- Divide Ratio: 20
- Output Power: +2dBm
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- Internal Voltage Regulator
- Reverse Voltage Protection
- SMA Female Connector

### Picture



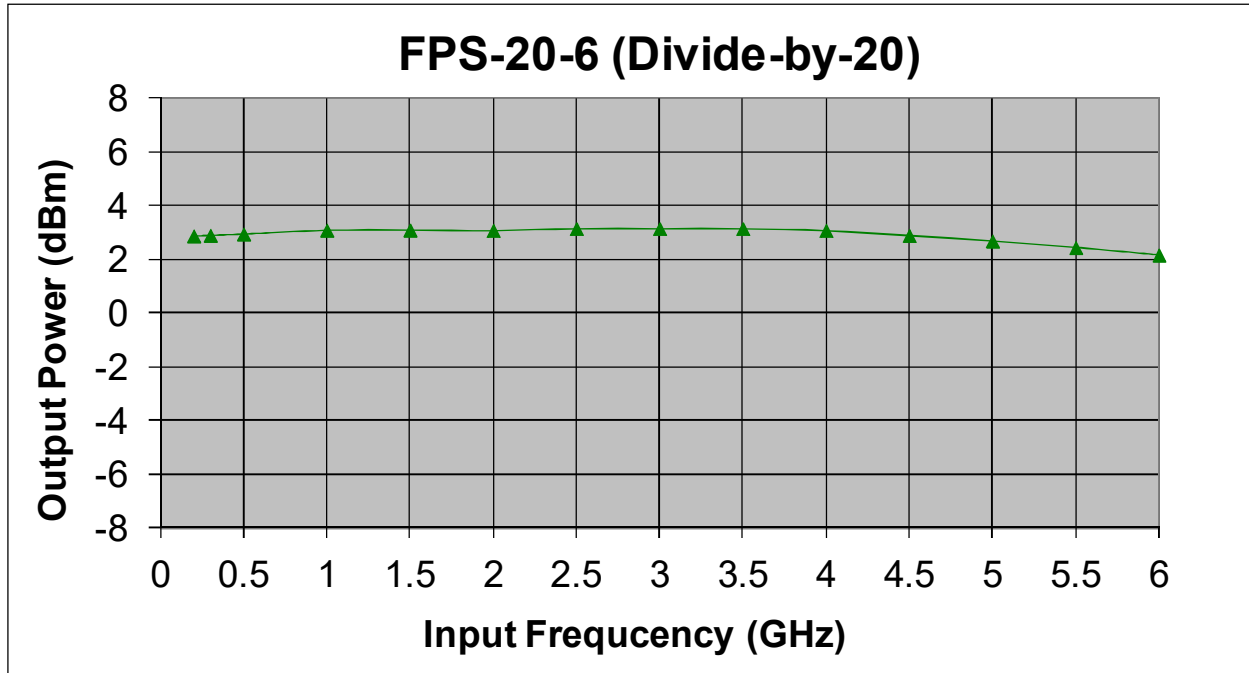
### Description

FPS-20-6 is a wideband frequency 0.2 – 6GHz divider with divide ratio of 20.

### Electrical Specifications @ +25 °C, $Z_{IN} = Z_{OUT} = 50 \Omega$ , DC Supply = +12V

Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.2		6
Output Frequency Range	MHz	10		300
Fixed Divide Ratio			20	
Input Power Range				
f = 0.2GHz – 1GHz	dBm	-12	0	+12
f = 1GHz – 6GHz	dBm	-10	0	+12
Output Power				
f = 0.2GHz – 6GHz	dBm	-1	+2	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-144	
DC Power Supply	V	9	12	15
Supply Current	mA		95	115

Typical Performance @ +25 °C



Tested with  $P_{in}=0\text{dBm}$

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### Absolute Maximum Ratings

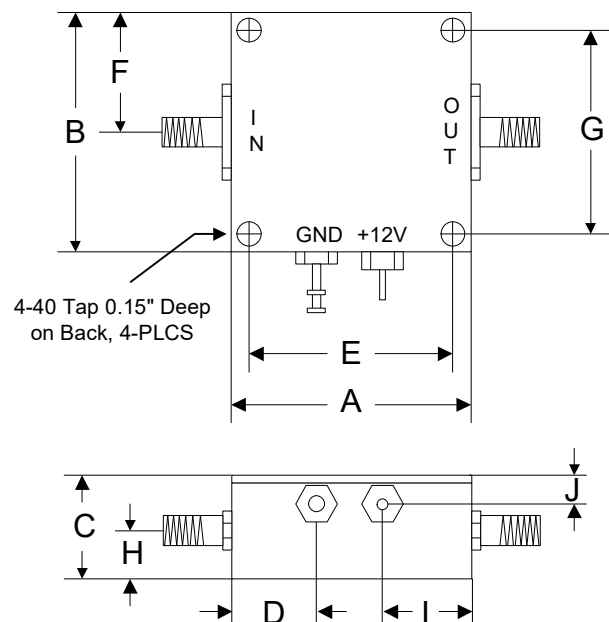
Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### ESD Sensitive Material



**WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °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