

FPS Series

0.2 – 6.0GHz Divide-By-12 Prescaler

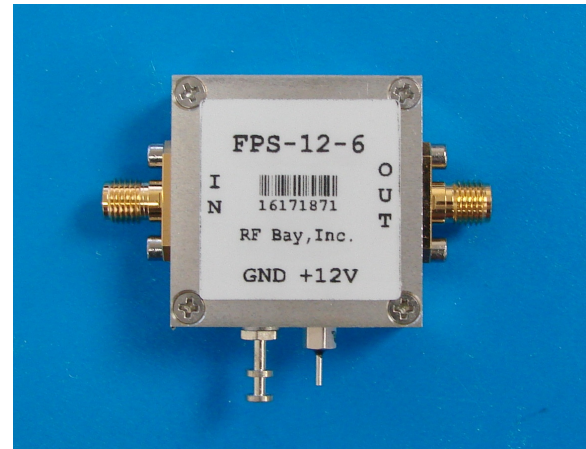
Features

- Input Frequency: 0.2-6.0GHz
- Output Frequency: 16.66-500MHz
- Divide Ratio: 12
- Output Power: 0dBm
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- SMA Connector

Description

FPS-12-6 is a wideband frequency divider with divide ratio of 12. The AC coupled square wave output with 0dBm fits many PLL applications.

Picture



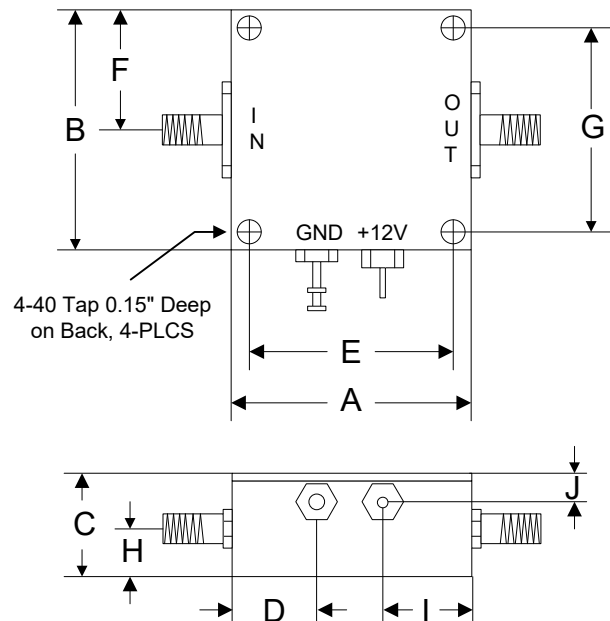
Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$, $V_{supply} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.2		6.0
Output Frequency Range	MHz	16.66		500
Fixed Divide Ratio			12	
Input Power Range				
f = 0.2GHz – 1.0GHz	dBm	-10		+12
f = 1.0GHz – 6.0GHz	dBm	-12		+12
Output Power to 50 Ohm Load	dBm		0	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-144	
DC Power Supply	V		12	15
Supply Current	mA		100	

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 +100 °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