



FPS Series

0.1 – 8.0GHz Divide-By-5 Prescaler

Features

- Input Frequency: 0.1-8.0GHz
- Output Frequency: 0.02-1.6GHz
- Divide Ratio: 5
- Output Power: -1dBm
- Phase Noise: -153dBc/Hz
- DC Power: 12V
- SMA Connector

Description

FPS-5-8 is a wideband frequency 0.1 – 8.0GHz divider with divide ratio of 5.

Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ohms

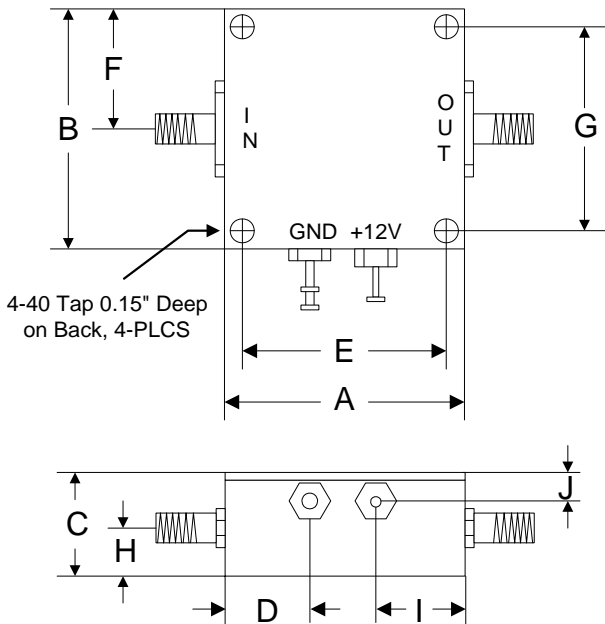
Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.1		8.0
Output Frequency Range	GHz	0.02		1.6
Fixed Divide Ratio			5	
Input Power Range				
f = 0.1GHz – 1.0GHz	dBm	-10	-15	+12
f = 1.0GHz – 5.0GHz	dBm	-12	-15	+12
f = 5.0GHz – 6.0GHz	dBm	-12	-15	+10
f = 6.0GHz – 7.0GHz	dBm	-10	-15	+5
f = 7.0GHz – 8.0GHz	dBm	0		+3
Output Power	dBm	-4	-1	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-153	
DC Power Supply	V	7	12	15
Supply Current	mA		80	



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