

## FPS Series

## 0.1 – 12.0GHz Divide-By-8 Prescaler

### Features

- Input Frequency: 0.1-12.0GHz
- Output Frequency: 0.0125-1.5GHz
- Divide Ratio: 8
- Output Power: -6dBm
- Phase Noise: -153dBc/Hz
- DC Power: 12V
- SMA Connector

### Picture



### Description

FPS-8-12 is a wideband frequency 0.1 – 12.0GHz divider with divide ratio of 8.

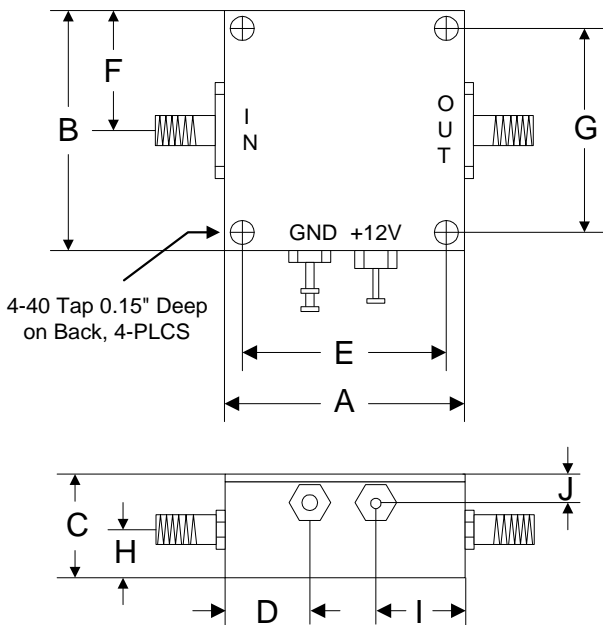
### Electrical Specifications @ +25 °C, $Z_S = Z_L = 50$ Ohms

Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.1		12.0
Output Frequency Range	GHz	0.0125		1.5
Fixed Divide Ratio			8	
Input Power Range				
f = 0.1GHz – 1.0GHz	dBm	-3	-5	+10
f = 1.0GHz – 7.0GHz	dBm	-15	-20	+10
f = 7.0GHz – 11.0GHz	dBm	-10	-15	+2
f = 11.0GHz – 12.0GHz	dBm	-5	-8	0
Output Power				
f = 12.0GHz	dBm	-9	-6	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-153	
DC Power Supply	V	7	12	15
Supply Current	mA		70	

### 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
<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