



## FPS Series

## 0.2 – 18GHz Divide-By-8 Prescaler

### Features

- Input Frequency: 0.2-18GHz
- Output Frequency: 0.025-2.25GHz
- Divide Ratio: 8
- Output Power: -4dBm
- Phase Noise: -150dBc/Hz
- DC Power: 7-15V
- SMA Connector

### Description

FPS-8-18 is a wideband frequency 0.2 – 18GHz 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	0.2		18
Output Frequency Range	GHz	0.025		2.25
Fixed Divide Ratio		8		
Input Power Range				
f = 0.2GHz – 2GHz	dBm	+3		+10
f = 2GHz – 12GHz	dBm	-15		+10
f = 12GHz – 16GHz	dBm	-15		+3
f = 16GHz – 18GHz	dBm	-10		0
Output Power	dBm	-7	-4	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-150	
Reverse Leakage	dB		55	
Output Transition Time	ps		100	
DC Power Supply	V	7	12	15
Supply Current	mA		105	



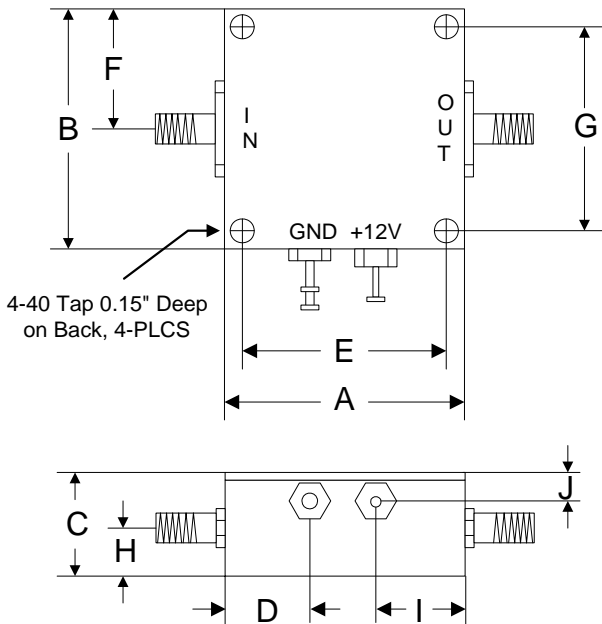
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### Absolute Maximum Ratings

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

### 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