



## FPS Series

## 0.8 – 8.0GHz Divide-By-256 Prescaler

### Features

- Input Frequency: 0.8-8.0GHz
- Output Frequency: 3.125-31.25MHz
- Divide Ratio: 256
- Output Power: -1dBm
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- SMA Connector

### Description

FPS-256-8 is a wideband frequency divider with divide ratio of 256. The AC coupled square wave output with 1.2 Vp-p swing fits many PLL applications.

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

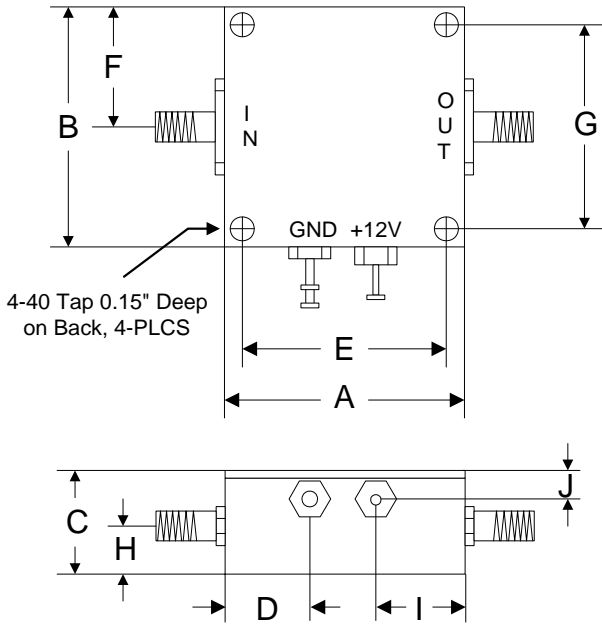
Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.8		8
Output Frequency Range	MHz	3.125		31.25
Fixed Divide Ratio			256	
Input Power Range				
f = 0.8GHz – 3.0GHz	dBm	-10	-15	+12
f = 3.0GHz – 7.0GHz	dBm	-3	-7	+12
f = 7.0GHz – 8.0GHz	dBm	0	-4	+10
Output Power to 50 Ohm Load	dBm		-1	
Output Voltage Swing (8pF Load)	Vp-p	1.0	1.2	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-144	
DC Power Supply	V	7	12	15
Supply Current	mA		75	



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
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