

## 0.2 – 6.0GHz Divide-By-6 Prescaler

### Features

- Input Frequency: 0.2-6.0GHz
- Output Frequency: 33.33-1000MHz
- Divide Ratio: 6
- Output Power: -1dBm
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- SMA Connector

### Description

HD32547 is a wideband frequency divider with divide ratio of 6. The AC coupled square wave output with -1dBm fits many PLL applications.

### Picture



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

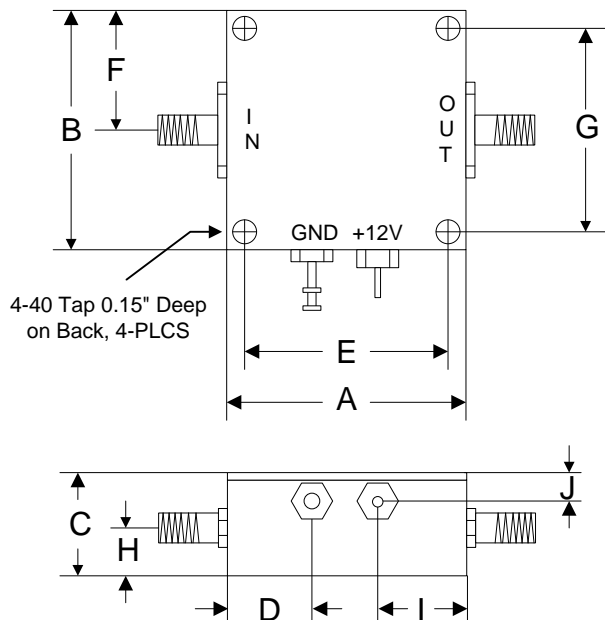
Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.2		6.0
Output Frequency Range	MHz	33.33		1000
Fixed Divide Ratio			6	
Input Power Range				
f = 0.2GHz – 1.0GHz	dBm	-10		+12
f = 1.0GHz – 6.0GHz	dBm	-12		+12
Output Power to 50 Ohm Load	dBm		-1	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-144	
DC Power Supply	V		12	15
Supply Current	mA		100	

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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 +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