

HD25105

0.1 – 12.5GHz Divide-By-6 Prescaler

Features

- Input Frequency: 0.1-12.5GHz
- Output Frequency: 0.016-2.083GHz
- Divide Ratio: 6
- Output Power: -1dBm
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- SMA Connector



Description

HD25105 is a wideband frequency 0.1 – 12.5GHz divider with divide ratio of 6.

Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \text{ Ohms}$

Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.1		12.5
Output Frequency Range	GHz	0.016		2.083
Fixed Divide Ratio			6	
Input Power Range				
f = 0.1GHz – 1.0GHz	dBm	-6	0	+10
f = 1.0GHz – 10.0GHz	dBm	-15	-20	+10
f = 10.0GHz – 12.0GHz	dBm	-10	-15	+5
f = 12.0GHz – 12.5GHz	dBm	-4	-8	+2
Output Power	dBm	-4	-1	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-144	
DC Power Supply	V	7	12	15
Supply Current	mA		175	

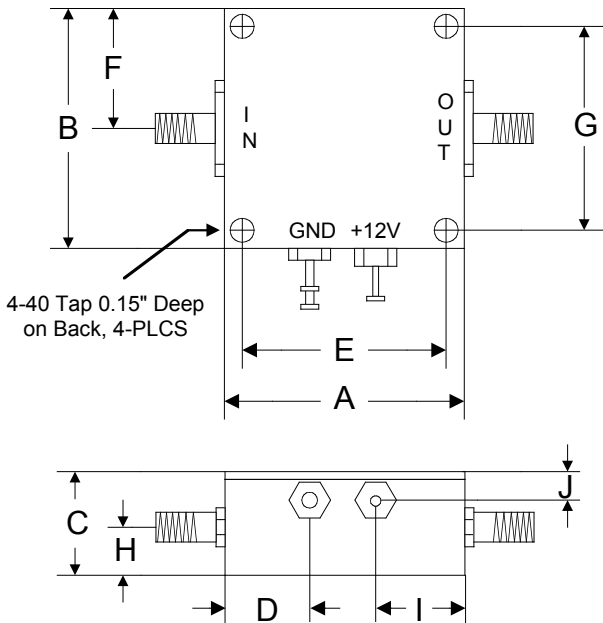
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Absolute Maximum Ratings

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
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