HD26133 0.8 – 8.0GHz Divide-By-160 Prescaler

Features

- Input Frequency: 0.8-8.0GHz
- Output Frequency: 5-50MHz
- Divide Ratio: 160
- Output Power: -1.5dBm
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- SMA Connector

Description

HD26133 is a wideband frequency divider with divide ratio of 160. The AC coupled square wave output with 1Vp-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	5		50
Fixed Divide Ratio			160	
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		-1.5	
Output Voltage Swing (8pF Load)	Vp-p	0.8	1.2	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-144	
DC Power Supply	V	7	12	15
Supply Current	mA		70	

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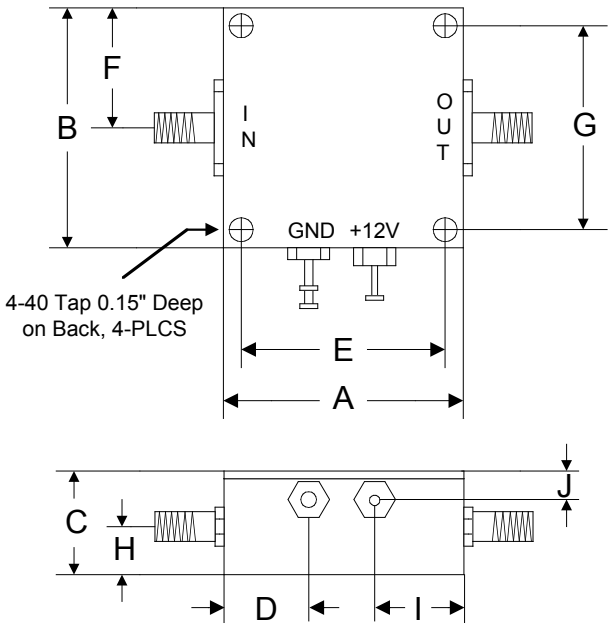
Absolute Maximum Ratings

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

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