

FPS Series

0.3 – 4.0GHz Divide-By-120 Prescaler

Features

- Input Frequency: 0.3-4.0GHz
- Output Frequency: 2.5-33.3MHz
- Divide Ratio: 120
- Output Power: -1.5dBm
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- SMA Connector

Picture



Description

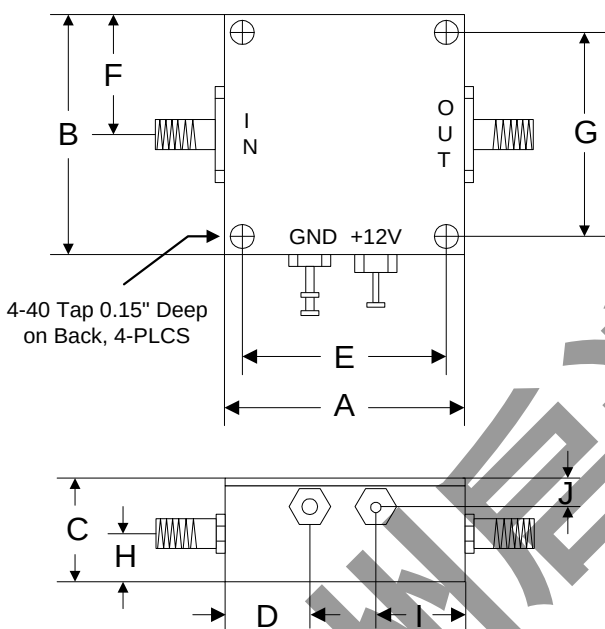
FPS-120-4 is a wideband frequency divider with divide ratio of 120. The AC coupled square wave output with 1.2 Vp-p swing fits many PLL applications.

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

Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range	GHz	0.3		4.0
Output Frequency Range	MHz	2.5		33.3
Fixed Divide Ratio			120	
Input Power Range				
$f = 0.3\text{GHz} - 1.0\text{GHz}$	dBm	-11	-15	+12
$f = 1.0\text{GHz} - 4.0\text{GHz}$	dBm	-12	-15	+12
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		75	

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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