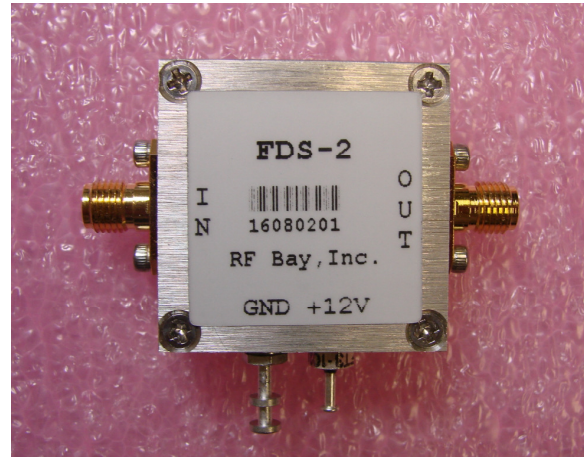


**FCS Series****0.1 – 50MHz Divide-By-N Prescaler****Features**

- Input Frequency: Up to 50MHz
- Output Frequency:  $F_{in}/N$
- Divide Ratio: N (2 to 256 preset)
- Input/Output: Analog/CMOS
- Phase Noise: -144dBc/Hz
- DC Power: 12V
- SMA Connector

**Picture****Description**

FCS-N is a 50MHz frequency divider with divide ratio of 2 to 256 (N must be specified when ordering). The AC coupled analog input and logic output will fit many PLL applications.

**Electrical Specifications @ +25 °C, Vsupply=+12V**

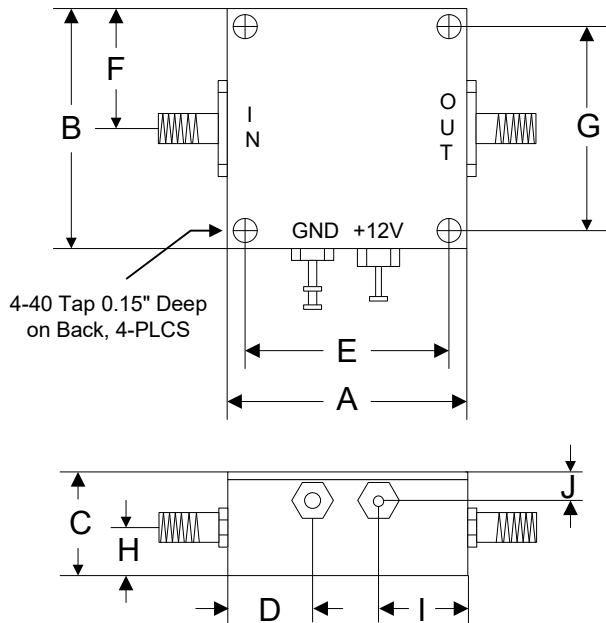
Parameter	Unit	Minimum	Typical	Maximum
Input Frequency Range $F_{in}$	MHz	0.1		50
Output Frequency Range	MHz		$F_{in}/N$	
Fixed Divide Ratio		N (Must be between 2 and 256, Factory set)		
Input Power Range				
f = 100KHz – 200KHz	dBm	+10		+17
f = 200KHz – 1MHz	dBm	+3		+17
f = 1MHz – 5MHz	dBm	-10		+17
f = 5MHz – 50MHz	dBm	-20		+17
HIGH Level Output Voltage	V	4.9		
LOW Level Output Voltage	V			0.1
Output Voltage Swing (8pF Load)	Vp-p	4.8	5.0	
SSB Phase Noise (100KHz Offset)	dBc/Hz		-144	
DC Power Supply	V	7	12	24
Supply Current	mA		70	

**Order Example: FCS-2 (N=2, Divide by 2)**

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage	+25V
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