

100MHz – 14GHz Divide-By-N Prescaler

Features

- Input Frequency: 0.1-14GHz
- Output Frequency: F_{in}/N
- Divide Ratio: N (8 to 511 preset)
- Output Power: +1dBm
- Phase Noise: -147dBc/Hz
- DC Power: 5V/315mA
- SMA Connector

Description

HD32484 is a custom build 0.1-14GHz frequency divider with fixed divide ratio of 8 to 511 (N must be specified when ordering). It is designed for PLL applications.

Picture



Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \Omega$, $V_{supply}=+5V$

| Parameter | Unit | Minimum | Typical | Maximum |
|--------------------------------|--------|---|------------|---------|
| Input Frequency Range F_{in} | GHz | 0.1 | | 14 |
| Output Frequency Range | GHz | | F_{in}/N | |
| Fixed Divide Ratio | | N (Must be between 8 and 511, Factory set) | | |
| Input Power Range | | | | |
| f = 0.1 – 0.5GHz | dBm | 0 | | +10 |
| f = 0.5 – 2GHz | dBm | -10 | | +10 |
| f = 2 – 10GHz | dBm | -15 | | +10 |
| f = 10 – 14GHz | dBm | -10 | | +10 |
| Output Power | dBm | | +1 | |
| SSB Phase Noise (10KHz Offset) | dBc/Hz | | -147 | |
| DC Power Supply | V | 4.5 | 5.0 | 5.5 |
| Supply Current | mA | | 315 | |



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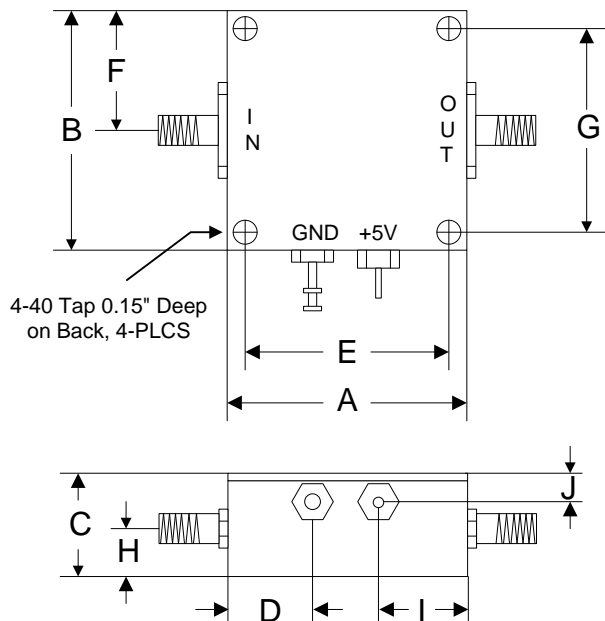
Order Example: FBS-17-14 (N=17, Divide by 17)

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Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF Input Power | +10dBm |
| Supply Voltage | +12V |
| 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 |