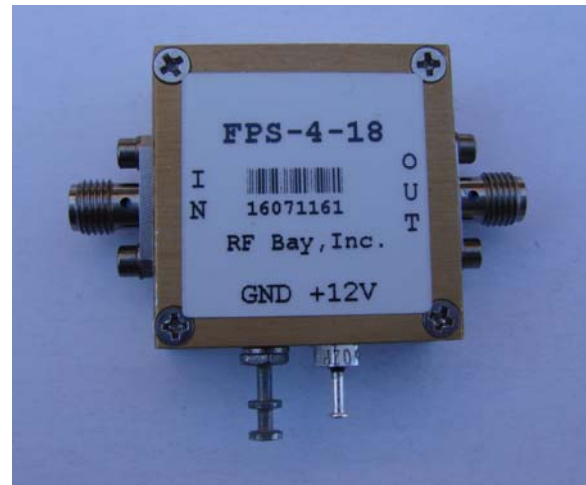


### Features

- Input Frequency: 0.2-18GHz
- Output Frequency: 0.05-4.5GHz
- Divide Ratio: 4
- Output Power: -4dBm
- Phase Noise: -150dBc/Hz
- DC Power: 7-15V
- SMA Connector

### Picture



### Description

FPS-4-18 is a wideband frequency 0.2 – 18GHz divider with divide ratio of 4.

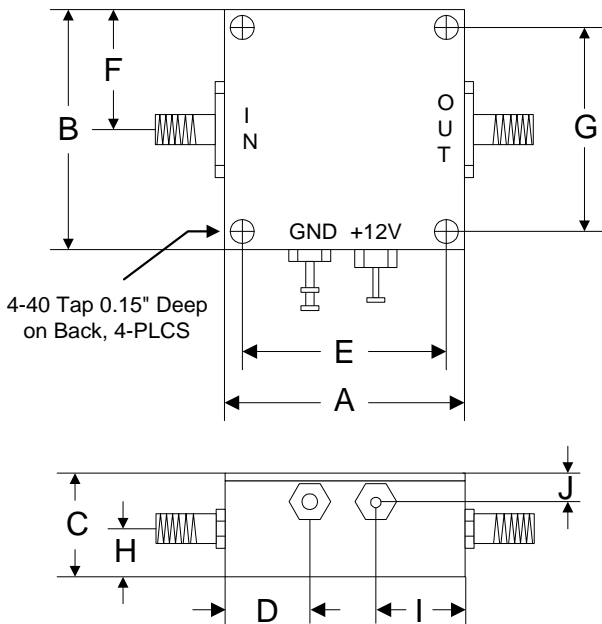
### Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \text{ Ohms}$

| Parameter                       | Unit   | Minimum | Typical | Maximum |
|---------------------------------|--------|---------|---------|---------|
| Input Frequency Range           | GHz    | 0.2     |         | 18      |
| Output Frequency Range          | GHz    | 0.05    |         | 4.5     |
| Fixed Divide Ratio              |        | 4       |         |         |
| Input Power Range               |        |         |         |         |
| f = 0.2GHz – 2GHz               | dBm    | +3      |         | +10     |
| f = 2GHz – 12GHz                | dBm    | -15     |         | +10     |
| f = 12GHz – 14GHz               | dBm    | -15     |         | +3      |
| f = 14GHz – 16GHz               | dBm    | -15     |         | 0       |
| f = 16GHz – 18GHz               | dBm    | -10     |         | 0       |
| Output Power                    | dBm    | -7      | -4      |         |
| SSB Phase Noise (100KHz Offset) | dBc/Hz |         | -150    |         |
| Reverse Leakage                 | dB     |         | 55      |         |
| Output Transition Time          | ps     |         | 100     |         |
| DC Power Supply                 | V      | 7       | 12      | 15      |
| Supply Current                  | mA     |         | 100     |         |

### 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 +125 °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  |