

## Product Features

- Commercial Active GPS
- L1 AND L2 Bands
- Elevation Coverage 5° to 90°
- Polarization Right Hand Circular (RHC)

## Specifications <sup>(1)</sup>



| Parameter                  | Value      | Units | Description                                 |
|----------------------------|------------|-------|---------------------------------------------|
| L1 Minimum Frequency Range | 1530       | MHz   |                                             |
| L1 Maximum Frequency Range | 1580       | MHz   |                                             |
| L2 Minimum Frequency Range | 1220       | MHz   |                                             |
| L2 Maximum Frequency Range | 1230       | MHz   |                                             |
| Impedance                  | 50         | Ohms  |                                             |
| Maximum Gain               | 6          | dBi   | @ Azimuth                                   |
| Minimum Gain               | >-10       | dBi   | @5° Elevation                               |
| Maximum LNA Gain           | 56         | dB    | Typical                                     |
| Polarization               | RHC        |       | Right Hand Circular                         |
| Maximum VSWR               | 1.25:1     | Ratio |                                             |
| Length                     | 139        | mm    | 5.48 inches                                 |
| Diameter                   | 178        | mm    | 7.02 inches                                 |
| Weight                     | 0.85       | Kg    |                                             |
| Connector Type             |            | N(f)  | N-Type Female                               |
| Noise Figure of LNA        | <0.7       | dB    | (0.5dB Typ) @ 20° C/<1.0 dB 50° C           |
| RF Input Blocking          | >20        | dBm   | @ Fo ±100 MHz                               |
| Power Consumption          | 80         | mA    | Typical                                     |
| Input return loss          | 20         | dB    | Typical                                     |
| Azimuth Coverage           | 360        | Deg   |                                             |
| Elevation Coverage         | 5 to 90    | Deg   |                                             |
| DC Supply                  | 3.3 to 15  | Volts |                                             |
| Storage Temperature        | -50 to +90 |       |                                             |
| Filtering                  | >70        | dB    | @ Fo ±100 MHz for L1<br>@ Fo ±50 MHz for L2 |
| Temperature Range          | -40 to +85 | Deg C |                                             |

## Ordering Information

| Part Number | Description                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------|
| PE51069     | 1530-1580 & 1220-1230 MHz, Dual Band, High Performance L1 & L2 GPS Active Antenna, 6 dBi, N-Female |

(1) Pasternack reserves the right to change specifications or information without notice.

(2) All specifications "typical"