

# LTE Multiband / Active GPS Roof Mount Antenna

Pulse Part Number GPSDM700/5800 Family



Pulse is proud to introduce a new state-of-the-art direct mount multi band antenna. This body mount antenna operates from 698 thru 5875 MHz, including LTE. The antenna is ideal for voice, mobile data, Public Safety, WLAN and asset tracking applications. The rugged, yet aesthetically pleasing design provides UV and IP-65 protection to ensure a long, reliable, maintenance-free life.

The antenna mount can accommodate up to a 5/8" (16 mm) thick surface. The GPSDM700/5800 has 3 cables to optimally support the different technologies. Wireless voice, data and LTE frequencies are supported by a single low-loss RG-58 cable. WLAN operates on a separate RG-58 cable. The 26 dB gain GPS antenna has its own RG-174 cable. Additional cable configurations, lengths and connector options are available upon request.

#### Features

- Single antenna supports multiple applications/ technologies
- Eliminates "antenna farm" vehicle appearance
- Separate cables create maximum application flexibility
- Available in black or white
- Easily mounted through a single 3/4" hole
- RoHS Compliant Product

#### Applications

- Mobile and Fixed Broadband
- Navigation/Asset Tracking/Fleet Management
- LTE and 700 MHz Public Safety

| P/N               | Frequency                                                     | Cable Type               | Cable Length (feet / meters)        | Color | Connectors                         |
|-------------------|---------------------------------------------------------------|--------------------------|-------------------------------------|-------|------------------------------------|
| GPSDM700/5800SSS  | 698-960/1710-2170/2300-2700<br>2400-2485/5150-5875<br>1575.42 | RG-58<br>RG-58<br>RG-174 | 17 / 5.18<br>17 / 5.18<br>17 / 5.18 | Black | SMA Male<br>SMA Male<br>SMA Male   |
| GPSDM700/5800GGT  | 698-960/1710-2170/2300-2700<br>2400-2485/5150-5875<br>1575.42 | RG-58<br>RG-58<br>RG-174 | 17 / 5.18<br>17 / 5.18<br>17 / 5.18 | Black | SMA Male<br>RPSMA Male<br>SMA Male |
| GPSDMW700/5800SSS | 698-960/1710-2170/2300-2700<br>2400-2485/5150-5875<br>1575.42 | RG-58<br>RG-58<br>RG-174 | 17 / 5.18<br>17 / 5.18<br>17 / 5.18 | White | SMA Male<br>SMA Male<br>SMA Male   |

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## Electrical Specifications

|                                |                                 |                                 |
|--------------------------------|---------------------------------|---------------------------------|
| Frequency [MHz]                | Cable 1 (GSM)                   | 698-960/1710-2170/<br>2300-2700 |
|                                | Cable 2 (WiFi)                  | 2400-2485/5150-5875             |
|                                | Cable 3 (GPS)                   | 1575.42                         |
| Nominal Impedance [ $\Omega$ ] |                                 | 50                              |
| VSWR                           | 698-960/1710-2170/<br>2300-2700 | 2.5:1                           |
|                                | 2400-2485/5150-5875             | 2.0:1                           |
| Gain [dBi]                     | 698-960/1710-2170/<br>2300-2700 | 4.5                             |
|                                | 2400-2485/5150-5875             | 6.5                             |
| Polarization                   | 698-960/1710-2170/<br>2300-2700 | Linear Vertical                 |
|                                | 2400-2485/5150-5875             | Linear Vertical                 |
|                                | 1575.42                         | RHCP                            |
| Power Rating [W]               | 698-960                         | 100                             |
|                                | 1710-2170                       | 20                              |
|                                | 2400-5875                       | 20                              |

## LNA Specifications

|                    |         |
|--------------------|---------|
| Gain [dBi - 3.3 V] | 28      |
| Gain [dBi - 5 V]   | 30      |
| Voltage [VDC]      | 3.3 - 5 |

## Environmental Specifications

|                                                                       |           |
|-----------------------------------------------------------------------|-----------|
| Operating Temperature [ $^{\circ}\text{C}$ ]                          | -40 / +85 |
| Storage Temperature [ $^{\circ}\text{C}$ ]                            | -40 / +85 |
| Relative Humidity<br>MIL-STD810G, method<br>507.4 @ 30 $^{\circ}$ [%] | 93        |

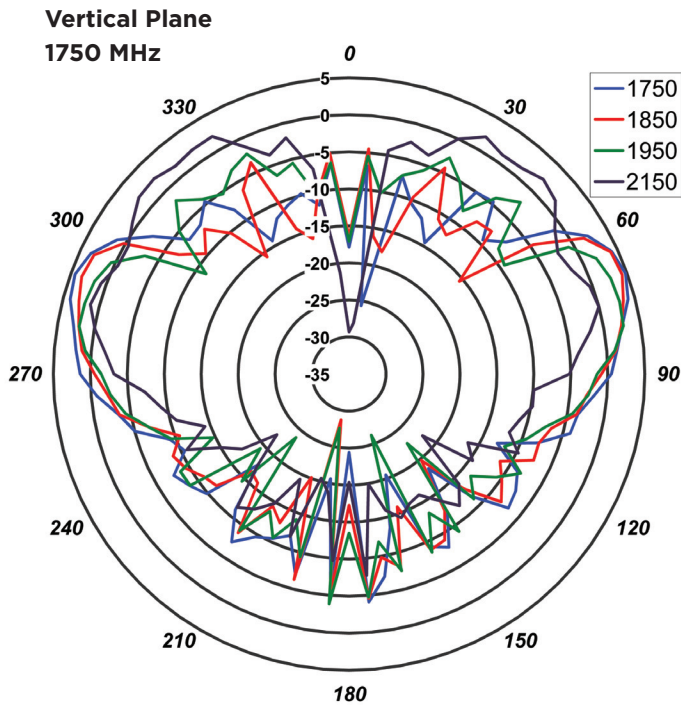
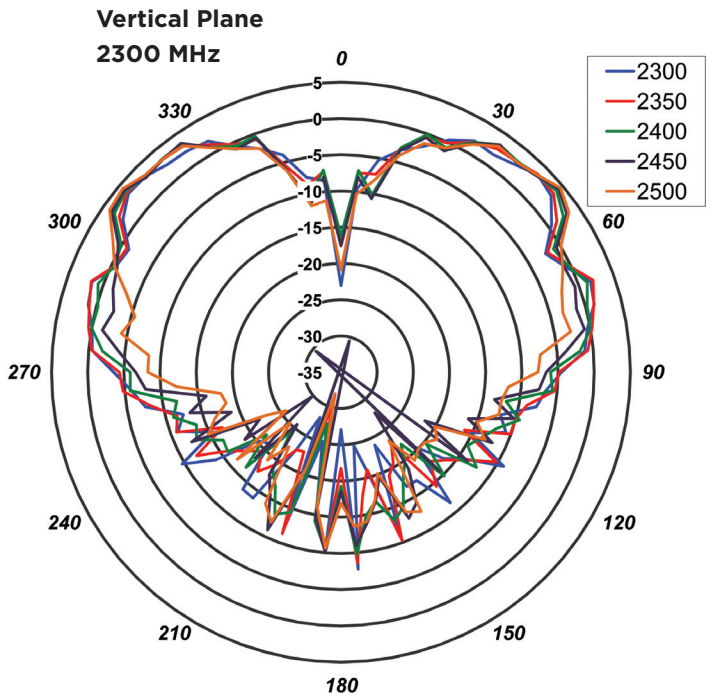
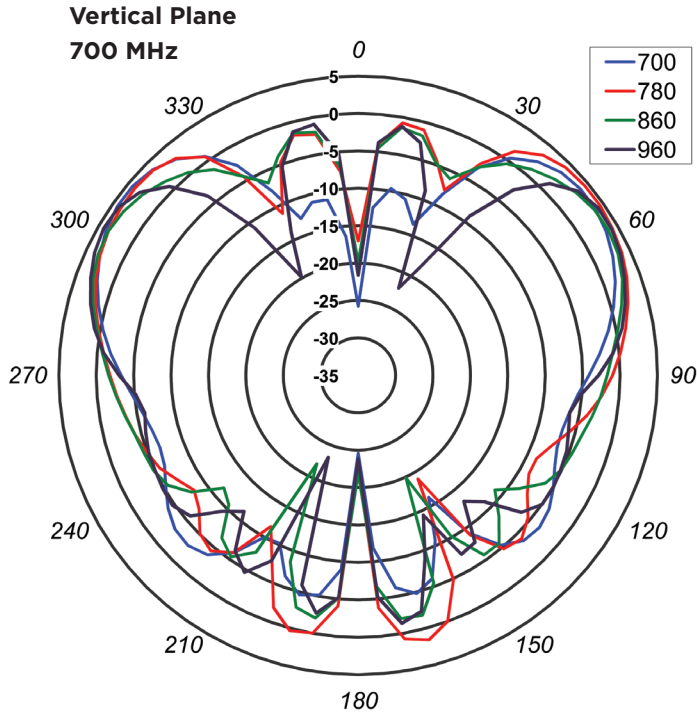
## Mechanical Specifications

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Color                 | Black or White                                           |
| Ingress Protection    | IP 65                                                    |
| Weight [ozs/g]        | 15 / 470                                                 |
| Dimensions [in/mm]    | 3.5 H x $\varnothing$ 4.26 /<br>88.3 x $\varnothing$ 108 |
| Mounting Hole [in/mm] | $\varnothing$ .76 / 19.3                                 |

# LTE Multiband / Active GPS Roof Mount Antenna

Pulse Part Number GPSPDM700/5800 Family

## Radiation Patterns

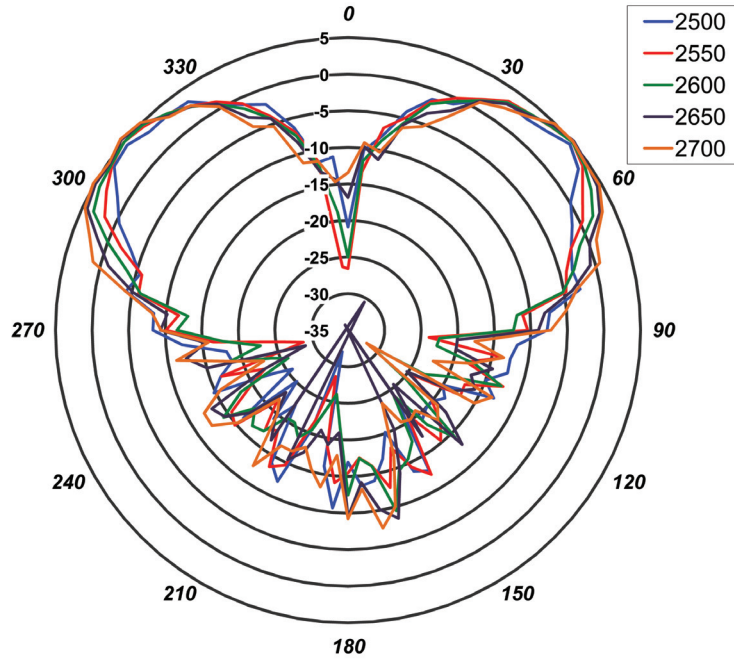


# LTE Multiband / Active GPS Roof Mount Antenna

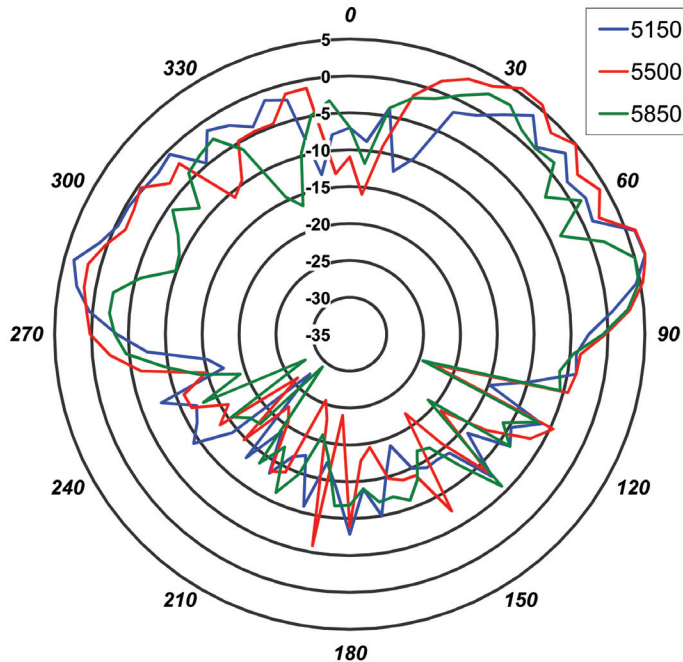
Pulse Part Number GPSPDM700/5800 Family

## Radiation Patterns

### Vertical Plane 2500 MHz



### Vertical Plane 5150 MHz



## For More Information

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