

# 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 2400-2485/5150-5875 1575.42	RG-58 RG-58 RG-174	17 / 5.18 17 / 5.18 17 / 5.18	Black	SMA Male SMA Male SMA Male
GPSDM700/5800GGT	698-960/1710-2170/2300-2700 2400-2485/5150-5875 1575.42	RG-58 RG-58 RG-174	17 / 5.18 17 / 5.18 17 / 5.18	Black	SMA Male RPSMA Male SMA Male
GPSDMW700/5800SSS	698-960/1710-2170/2300-2700 2400-2485/5150-5875 1575.42	RG-58 RG-58 RG-174	17 / 5.18 17 / 5.18 17 / 5.18	White	SMA Male SMA Male SMA Male

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## Electrical Specifications

Frequency [MHz]	Cable 1 (GSM)	698-960/1710-2170/ 2300-2700
	Cable 2 (WiFi)	2400-2485/5150-5875
	Cable 3 (GPS)	1575.42
Nominal Impedance [ $\Omega$ ]		50
VSWR	698-960/1710-2170/ 2300-2700	2.5:1
	2400-2485/5150-5875	2.0:1
Gain [dBi]	698-960/1710-2170/ 2300-2700	4.5
	2400-2485/5150-5875	6.5
Polarization	698-960/1710-2170/ 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 MIL-STD810G, method 507.4 @ 30 $^{\circ}$ [%]	93

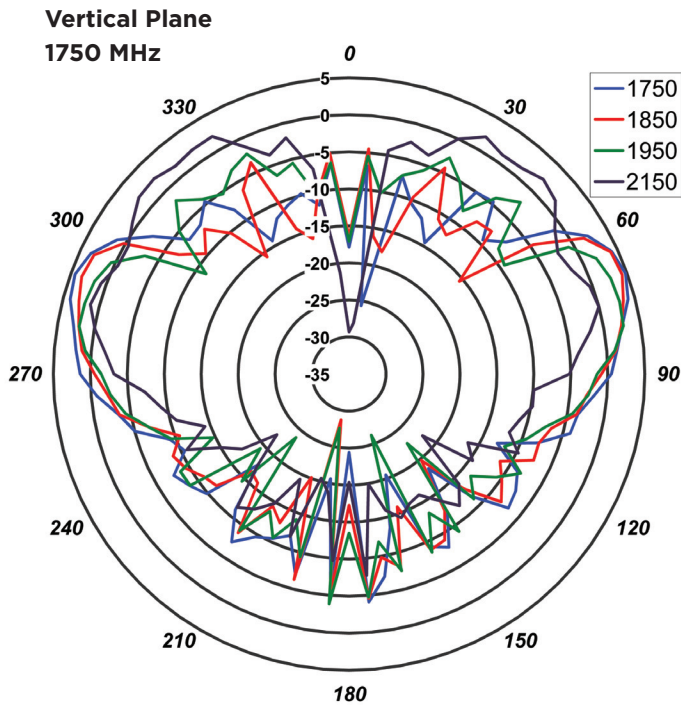
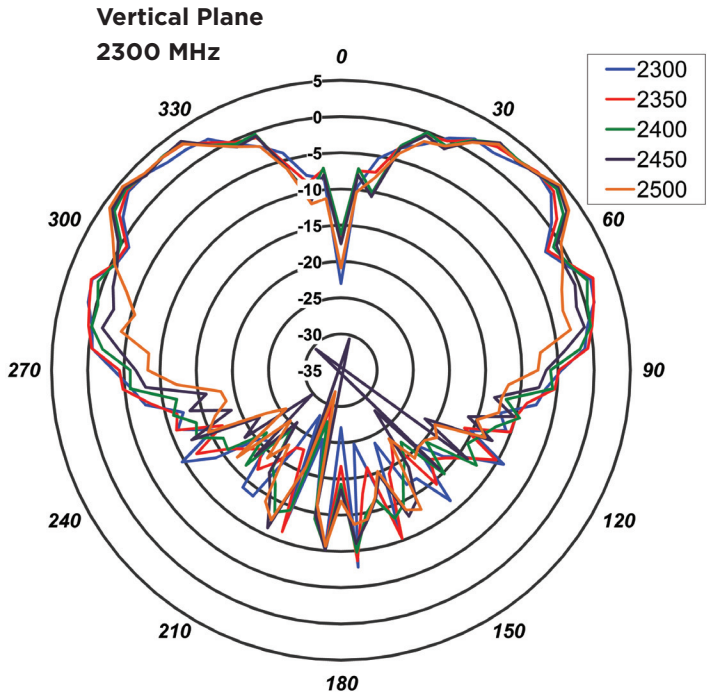
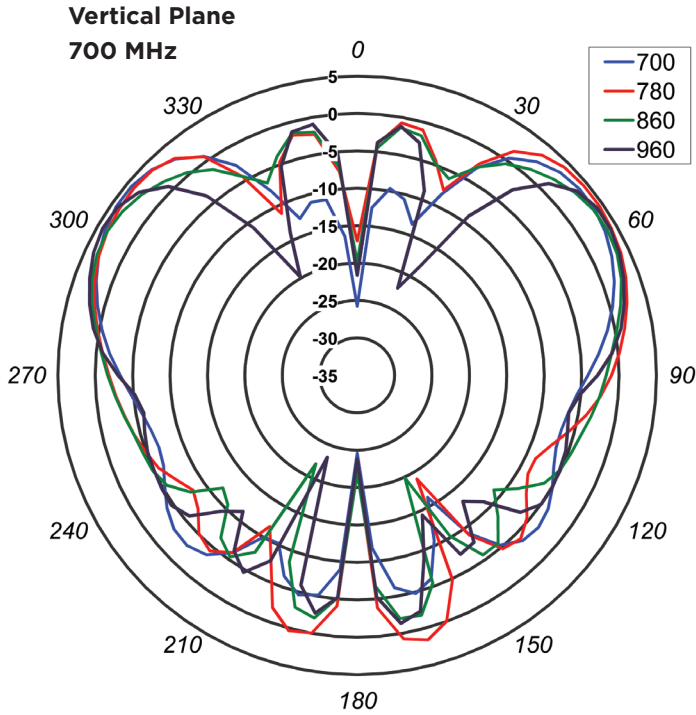
## Mechanical Specifications

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

# LTE Multiband / Active GPS Roof Mount Antenna

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## Radiation Patterns

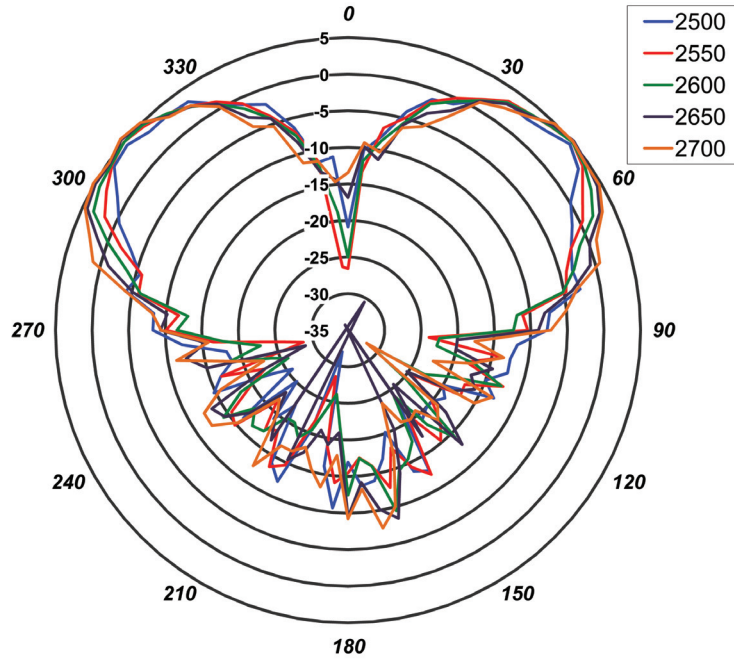


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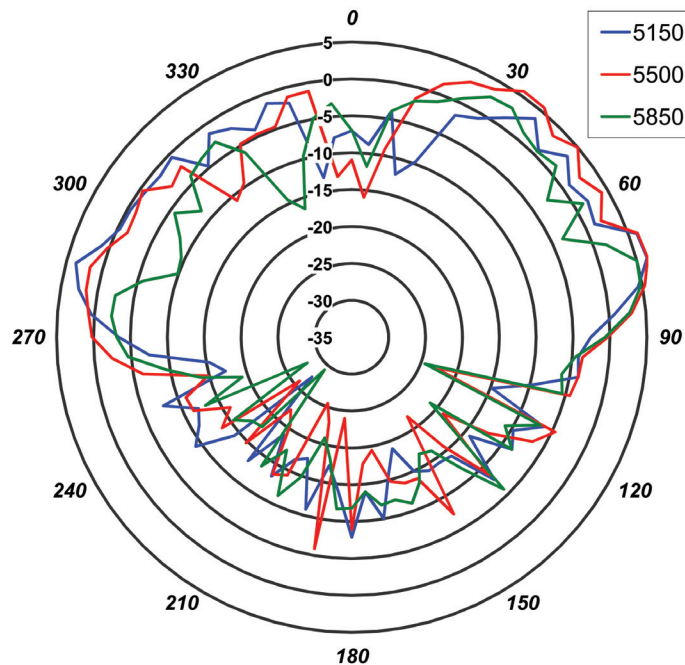
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## Radiation Patterns

### Vertical Plane 2500 MHz



### Vertical Plane 5150 MHz



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