

LTE Multiband / Active GPS Roof Mount Antenna

Pulse Part Number GPSDM700/2500 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 2700 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. Antennas equipped with GPS have 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
- 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)	Connectors
GPSDM700/2500FFS	698-960/1710-2170/2300-2700	RG-58	17 / 5.18	FME Female
	2400-2485	RG-58	17 / 5.18	FME Female
	1575.42	RG-174	17 / 5.18	SMA Male

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Electrical Specifications

Frequency [MHz]	Cable 1	698-960/1710-2170/ 2300-2700
	Cable 2	2400-2485
	Cable 3	1575.42
Nominal Impedance [Ω]		50
VSWR	698-960/1710-2170/ 2300-2700	2.0:1
	2400-2485	2.0:1
	1575.42	2.0:1
Gain [dBi]	698-960/1710-2170/ 2300-2700	3
	2400-2485	6
Polarization	698-960/1710-2170/ 2300-2700	Linear Vertical
	2400-2485	Linear Vertical
	1575.42	RHCP
Power Rating [W]		10

LNA Specifications

Gain [5 V]	5 dBic/30 dB \pm 2 dB
Gain [3 V]	5 dBic/25 dB \pm 2 dB
Noise Figure	1.3 dB
Current Draw [Ma]	12 mA @ 3.3 V
Voltage [VDC]	3 - 5

Environmental Specifications

Operating Temperature [$^{\circ}$ C]	-40 / +85
Storage Temperature [$^{\circ}$ C]	-40 / +85
Relative Humidity [%]	100%

Mechanical Specifications

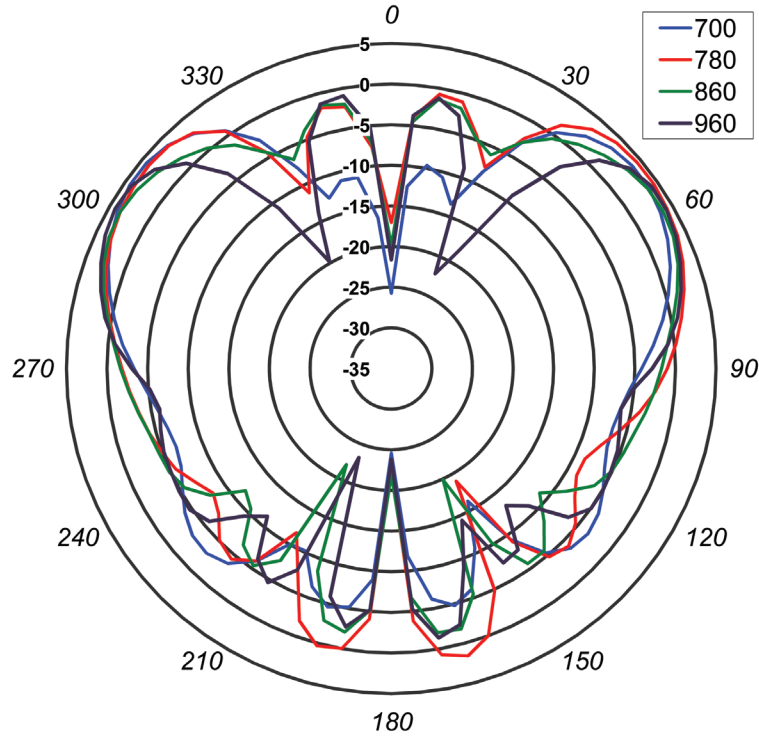
Radome Material	UV Stable
Color	Black
Ingress Protection	IP 65
Weight [ozs/g]	15 / 470
Dimensions [in/mm]	3.5 H x \varnothing 4.16 / 88.3 x \varnothing 105.7
Mounting	3/4" hole

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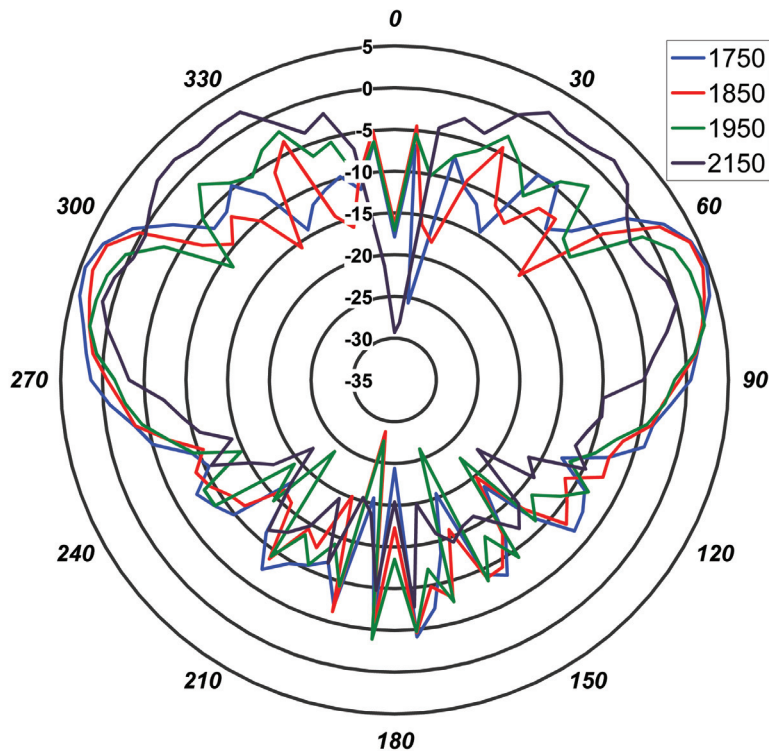
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Radiation Patterns

Vertical Plane
700 MHz



Vertical Plane
1750 MHz

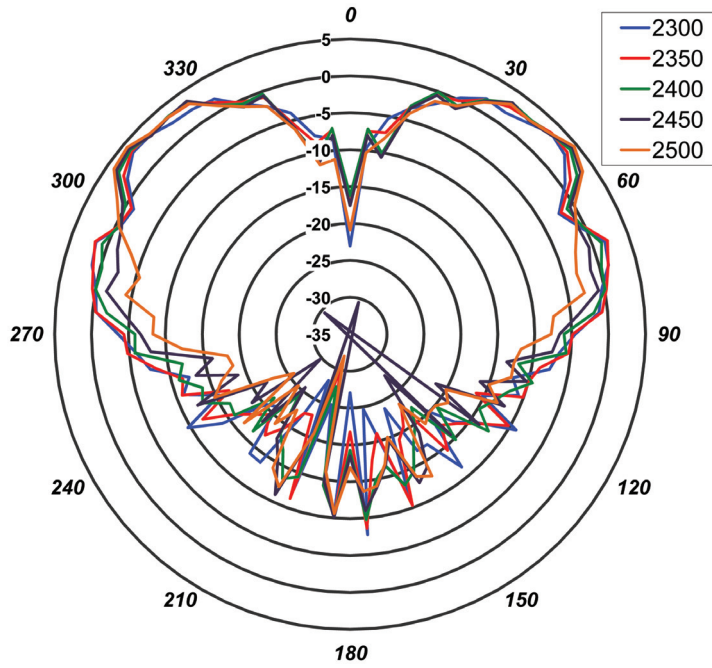


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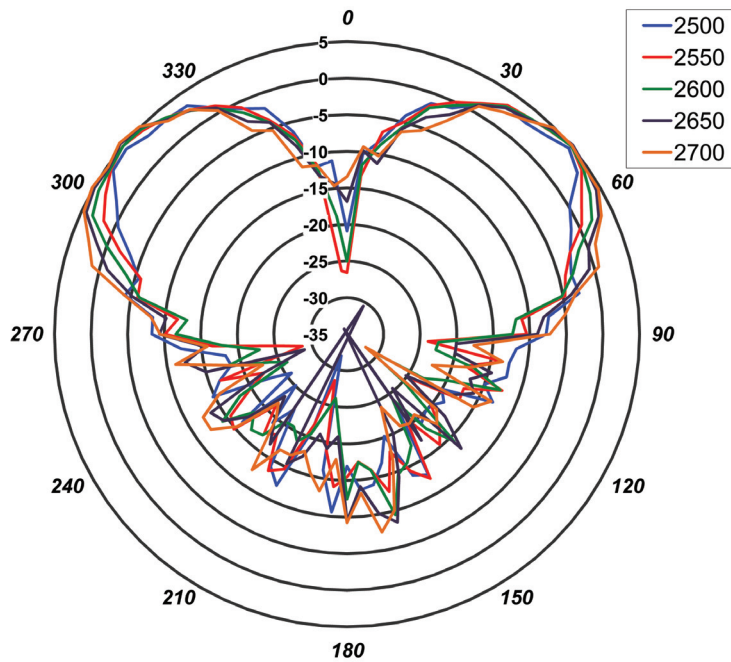
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Radiation Patterns

Vertical Plane 2300 MHz



Vertical Plane 2400 MHz



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