

# 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

# LTE Multiband / Active GPS Roof Mount Antenna

Pulse Part Number GPSDM700/2500 Family

## Electrical Specifications

Frequency [MHz]	Cable 1	698-960/1710-2170/ 2300-2700
	Cable 2	2400-2485
	Cable 3	1575.42
Nominal Impedance [ $\Omega$ ]		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

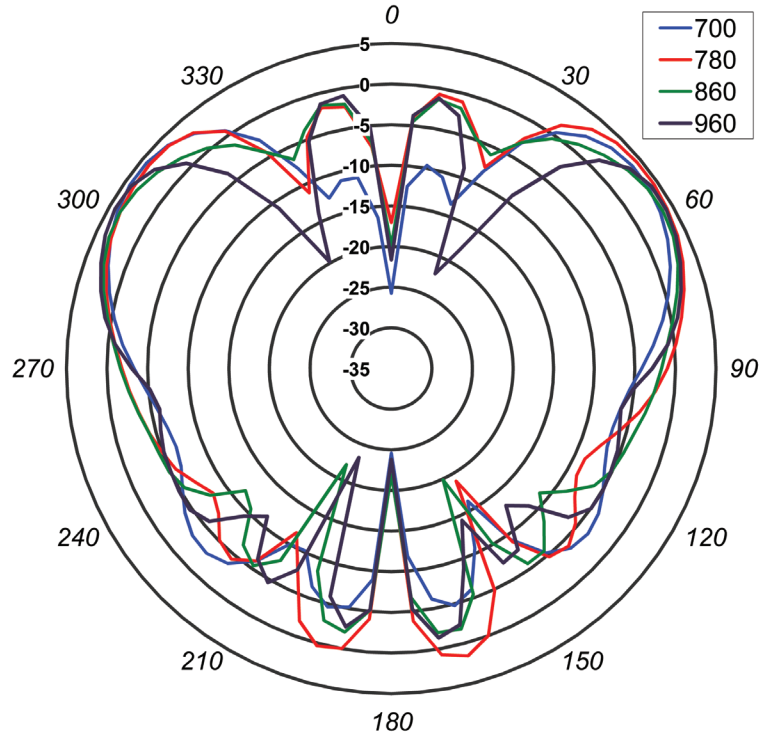
Radome Material	UV Stable
Color	Black
Ingress Protection	IP 65
Weight [ozs/g]	15 / 470
Dimensions [in/mm]	3.5 H x $\varnothing$ 4.16 / 88.3 x $\varnothing$ 105.7
Mounting	3/4" hole

# LTE Multiband / Active GPS Roof Mount Antenna

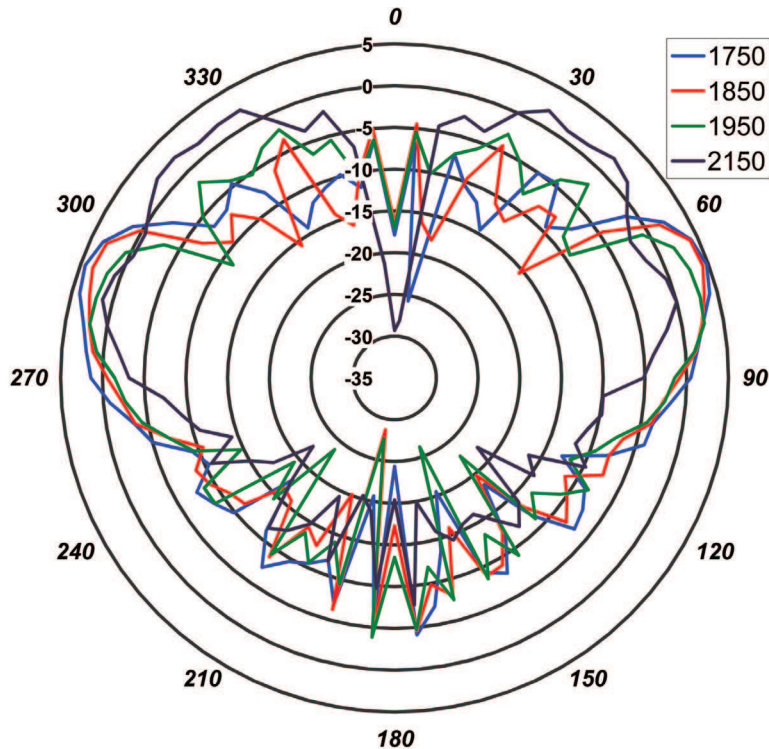
Pulse Part Number GPSDM700/2500 Family

## Radiation Patterns

Vertical Plane  
700 MHz



Vertical Plane  
1750 MHz

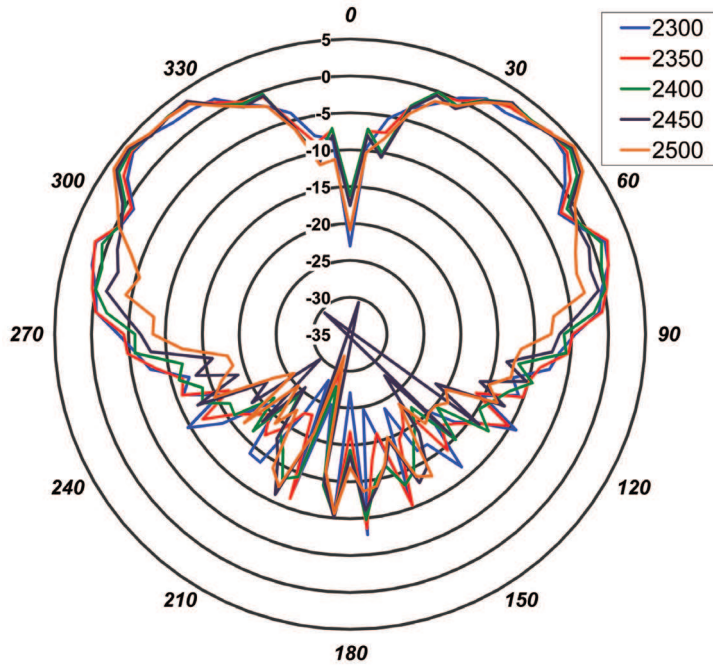


# LTE Multiband / Active GPS Roof Mount Antenna

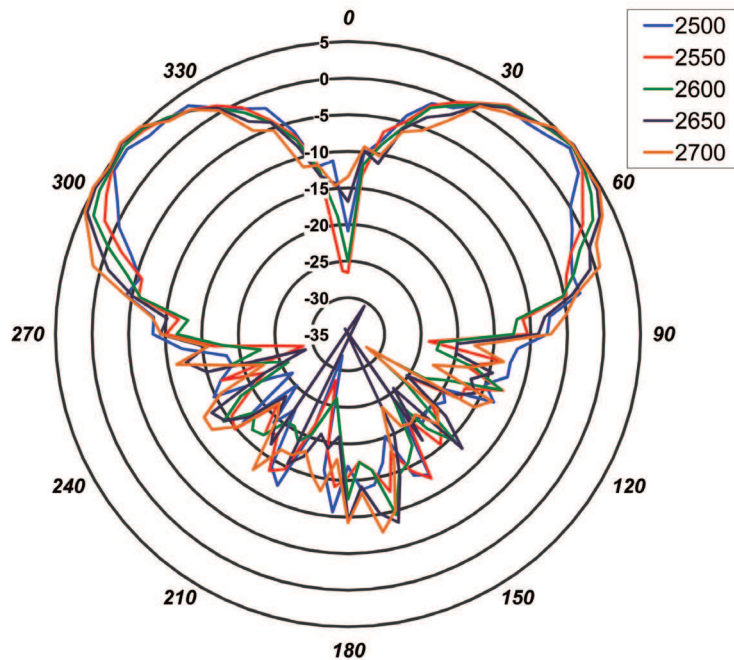
Pulse Part Number GPSDM700/2500 Family

## Radiation Patterns

### Vertical Plane 2300 MHz



### Vertical Plane 2400 MHz



## For More Information

### Pulse Worldwide Headquarters

12220 World Trade Drive  
San Diego, CA 92128  
U.S.A.

### Larsen Brand Antennas

3611 NE 112th Avenue  
Vancouver, WA 98682  
USA

### Europe Headquarters

Pulse GmbH & Co. KG  
Zeppelinstrasse 15  
Herrenberg  
Germany

### Asia Headquarters

B402, Shenzhen Academy of  
Aerospace Technology Bldg,  
10th Kejian Road, High-Tech Zone  
Nanshan District, Shenzhen, PR China 518057

### Pulse North Asia

3F, No. 198, Zhongyuan Road  
Zhongli City, Taoyuan County 320  
Taiwan R. O. C.

### Pulse (Suzhou) Wireless Products Co., Inc.

99 Huo Ju Road, (#29 Bldg, 4th Phase)  
Suzhou New District  
Science & Tech Industrial Park  
Jiangsu Province, Suzhou 215009 PR China

Tel: 858 674 8100  
Fax: 858 674 8262

Tel: 360 944 7551  
Fax: 360 944 7556

Tel: 49 7032 7806 0  
Fax: 49 7032 7806 135

Tel: 86 755 33966678  
Fax: 86 755 33966700

Tel: 886 3 4356768  
Fax: 886 3 4356823

Tel: 86 512 6807 9998  
Fax: 86 512 6809 8023

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2010, Pulse Electronics, Inc. All rights reserved.