

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, and is available with or without GPS. 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	Cable Type	Cable Length (feet / meters)	Connectors
GPSDM700/2500FFS	RG-58	17 / 5.18	FME Female
	RG-58	17 / 5.18	FME Female
	RG-174	17 / 5.18	SMA Male (GPS)

LTE Multiband / Active GPS Roof Mount Antenna

Pulse Part Number GPSDM700/2500 Family

Electrical Specifications

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

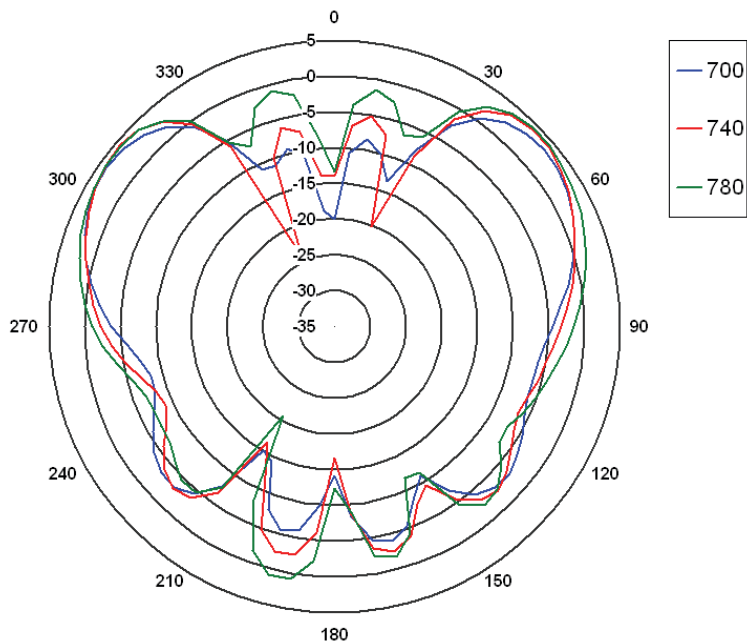
Radome Material	UV Stable
Color	Black
Ingress Protection	IP 65
Weight [ozs/g]	15 / 470
Dimensions [in/mm]	3.5 H x \varnothing 4.16 / 88.3 x \varnothing 105.7
Mounting	3/4" hole

LTE Multiband / Active GPS Roof Mount Antenna

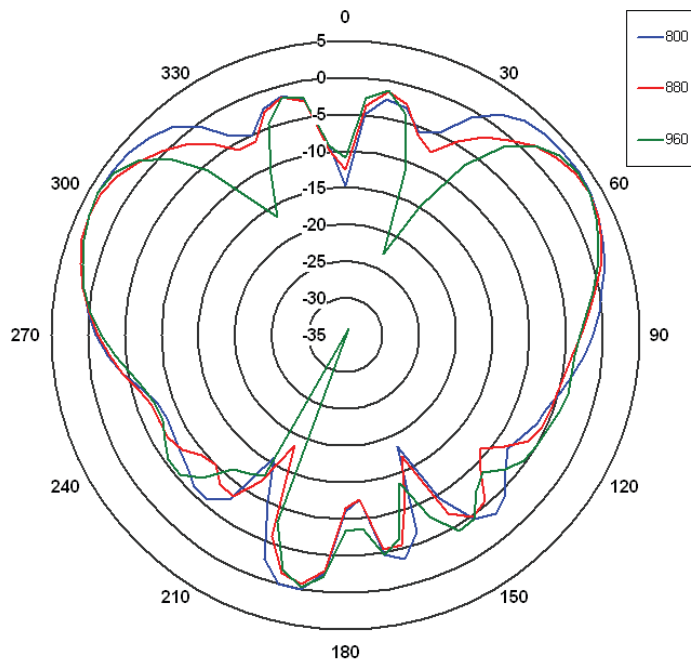
Pulse Part Number GPSDM700/2500 Family

Radiation Patterns

**Vertical Plane
700 MHz**



**Vertical Plane
800 MHz**

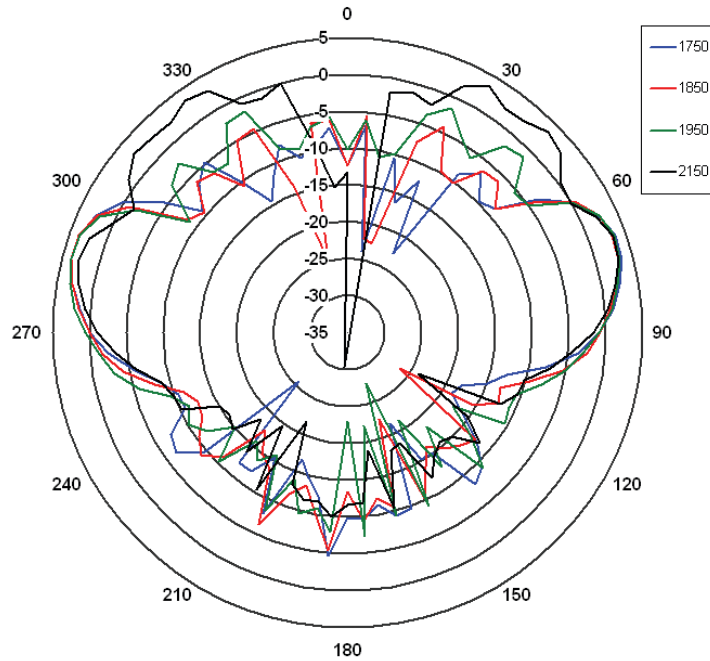


LTE Multiband / Active GPS Roof Mount Antenna

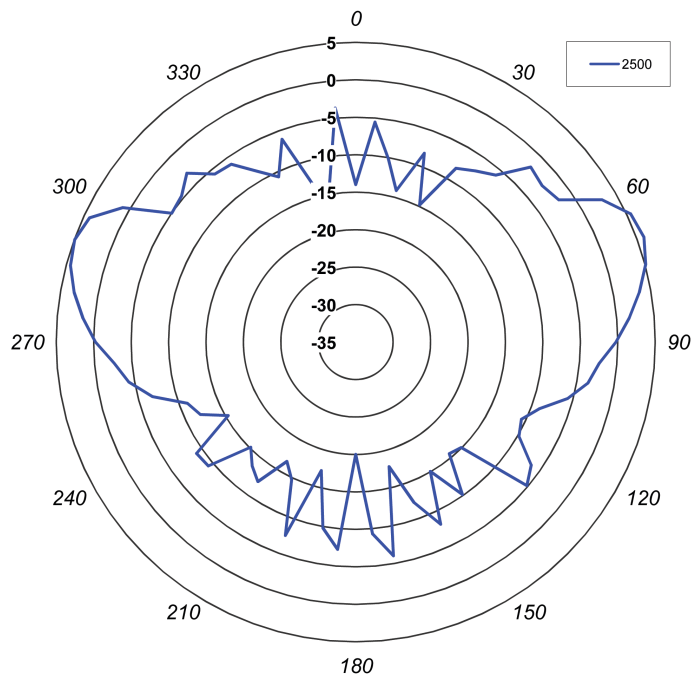
Pulse Part Number GPSPDM700/2500 Family

Radiation Patterns

**Vertical Plane
1900 MHz**



**Vertical Plane
2500 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: 369 944 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.