



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 [Ω]		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

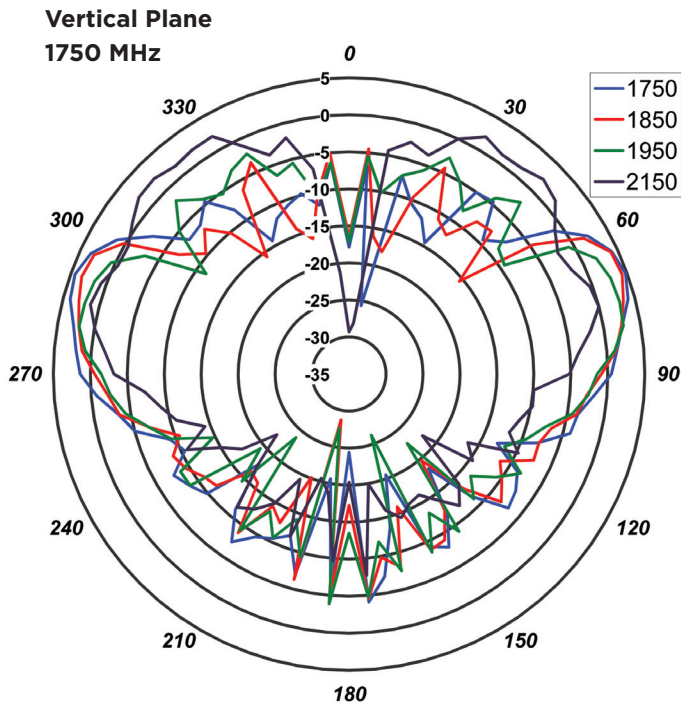
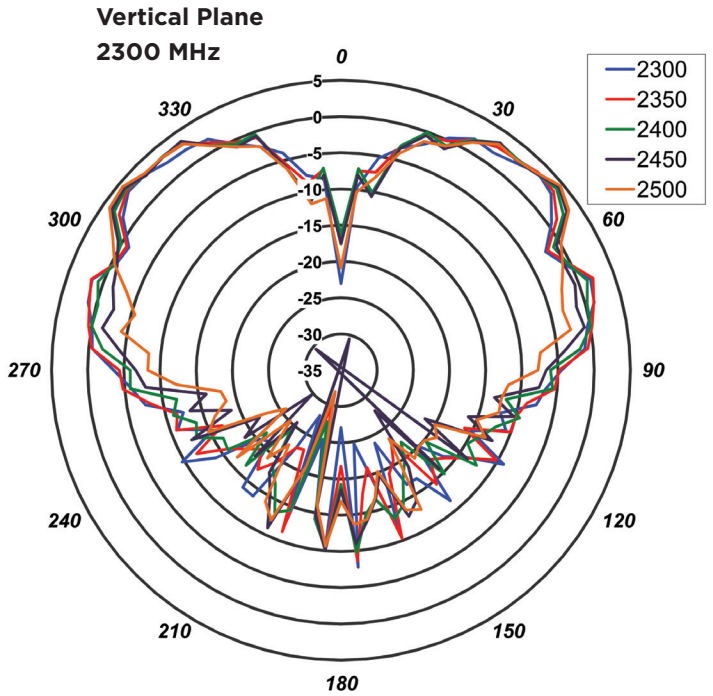
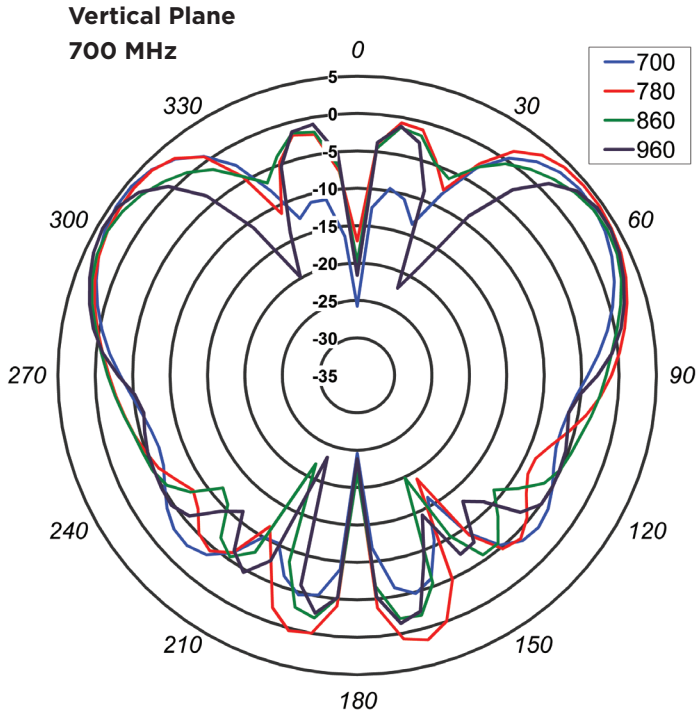
Mechanical Specifications

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

Pulse Part Number GPSPDM700/5800 Family

Radiation Patterns

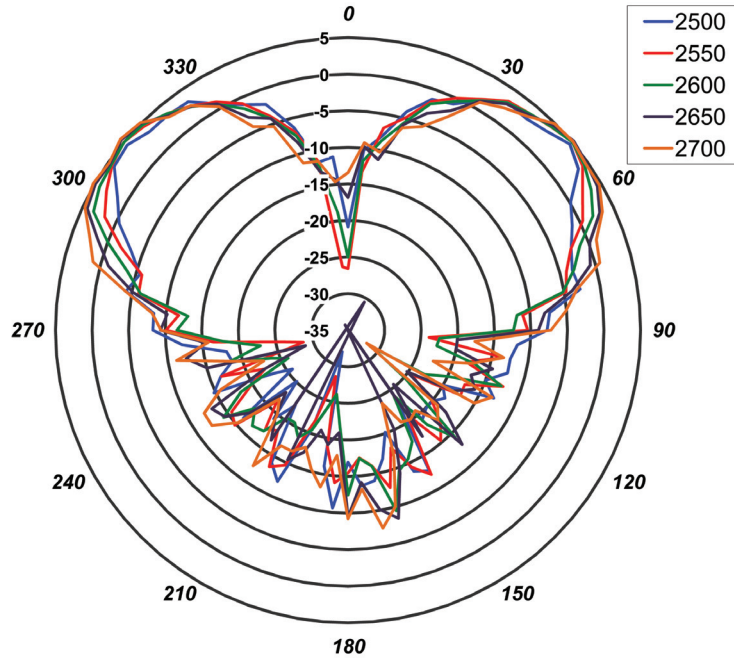


LTE Multiband / Active GPS Roof Mount Antenna

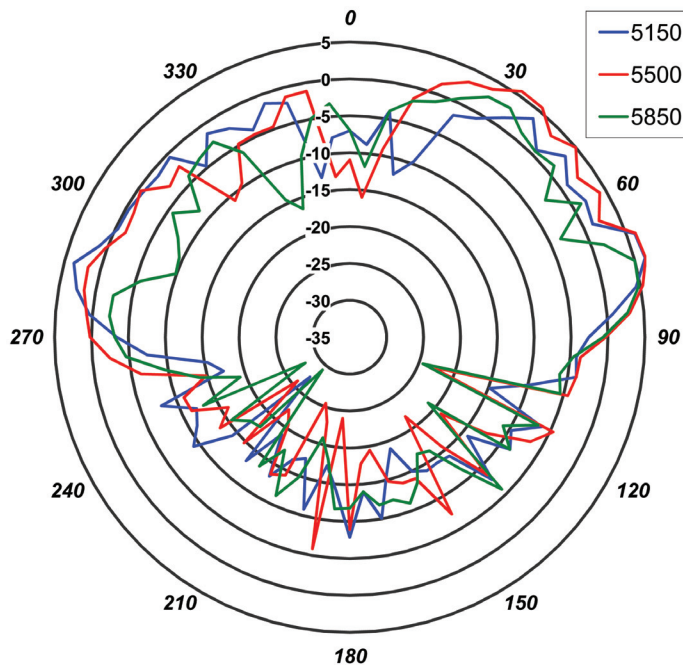
Pulse Part Number GPSDM700/5800 Family

Radiation Patterns

Vertical Plane 2500 MHz



Vertical Plane 5150 MHz



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