On Ground type, ie. solid ground plane under antenna, top surface ground removal 10.80 x 6.25 mm.

Pulse Part Number: W3009



Features

- Omnidirectional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 4 mm)
- Low weight (600 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications

- GPS L1 band
- 1.575 GHz

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on test board (GP) size and antenna positioning on GP.

GPS

Typical performance (test board size 80 x 37 mm, PWB top surface ground removal area 10.80 x 6.25 mm)

Frequency Range [MHz]	RHCP Gain [dBic]	Linear Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance $[\Omega]$	Operating Temperature [°C]
1575.42 +/-10	0.7 (Peak) 0.3 (Band edges)	3 (Peak) 2.5 (Band edges)	80 / -1 (Peak) 75 / -1.25 (Band edges)	-10	50	-40 to +85

Pulse Finland Oy

Takatie 6

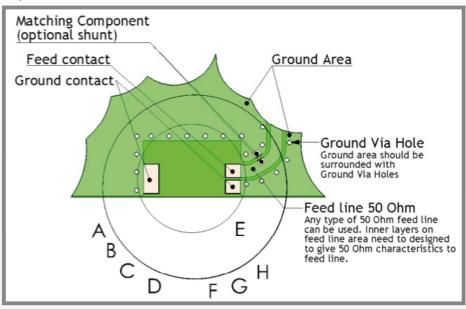


On Ground type, ie. solid ground plane under antenna, top surface ground removal 10.80 x 6.25 mm.

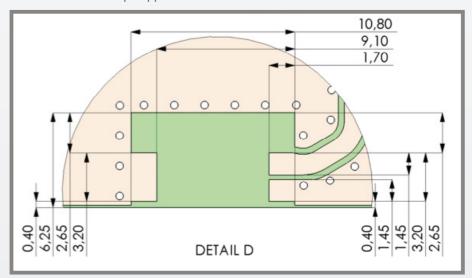
Pulse Part Number: W3009

Terminal Configuration

Layout



Pad dimensions in top copper



Pulse Finland Oy

Takatie 6

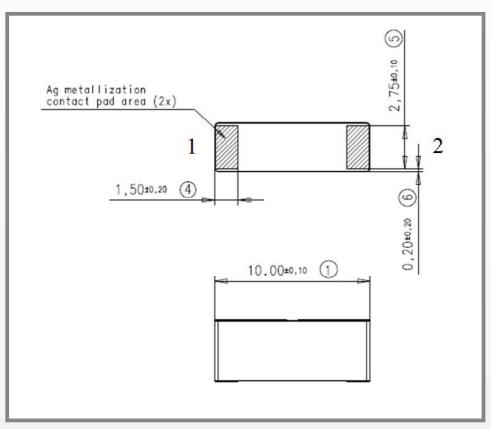


On Ground type, ie. solid ground plane under antenna, top surface ground removal 10.80 x 6.25 mm.

Pulse Part Number: W3009

Terminal Configuration

Antenna



No.	Terminal Name	Terminal Dimensions		
1	Feed / GND	1.50 x 2.75 mm		
2	Feed / GND	1.50 x 2.75 mm		
Antenna is s	or 2 can be Feed / GND			

Takatie 6



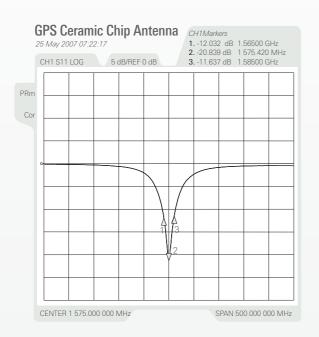
On Ground type, ie. solid ground plane under antenna, top surface ground removal 10.80 x 6.25 mm.

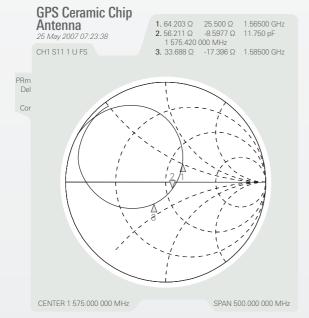
Pulse Part Number: W3009

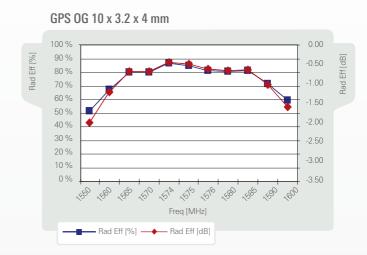
Typical Electrical Characteristics (T=25 °C)

Measured on the 80×37 mm test board with matching circuit (2.2 pF shunt matching capacitor on feed).

Typical Return Loss S11/ impedance, free space efficiency and gain











Pulse Finland Oy

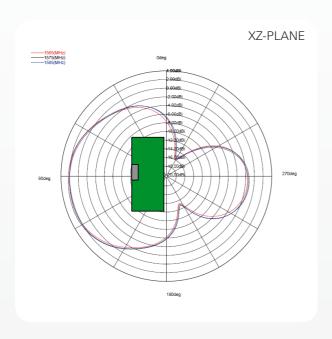
Takatie 6

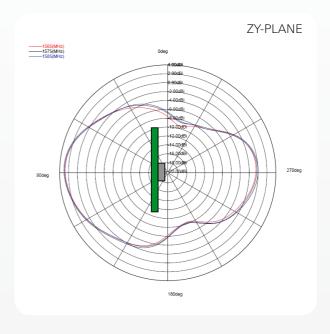


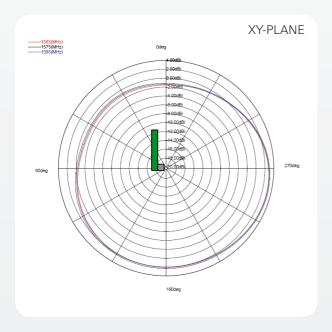
On Ground type, ie. solid ground plane under antenna, top surface ground removal 10.80 x 6.25 mm.

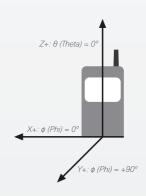
Pulse Part Number: W3009

Typical Free Space Radiation Patterns









Pulse Finland Oy

Takatie 6

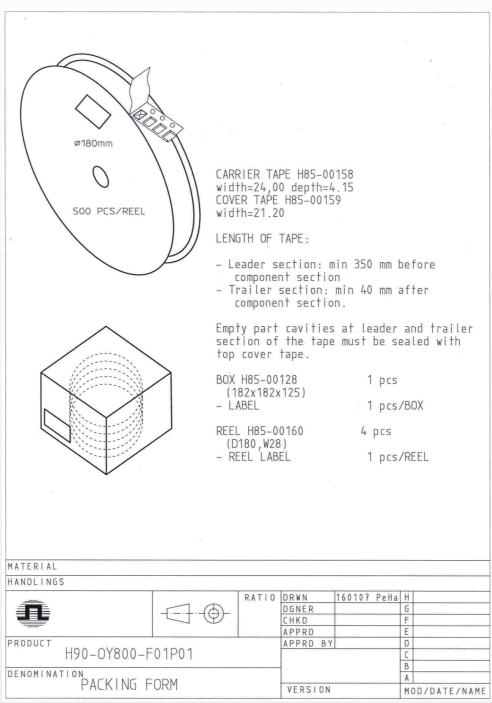


On Ground type, ie. solid ground plane under antenna, top surface ground removal 10.80 x 6.25 mm.

Pulse Part Number: W3009

W3009 GPS Antenna Packing

Packing form



Pulse Finland Oy

Takatie 6



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Antennas category:

Click to view products by Pulse manufacturer:

Other Similar products are found below:

CCT FM1 ABFT AD-NM-SMAF CTC110 MAF94149 EXE902SF MMCX-SMA-100 PDQ24496-91NF GAN30084EU 930-033-R A08-HABUF-P5I AAF95035 DG-ANT-20DP-BG-B ANT-DB1-RMT-SMA APAMPGJ-141 1513563-1 A09-HASM-7 EXE902MD EXE902SM APAMPG-117 GPS1575SP26-004 GPS15MGSMA CMQ69273-30NF RD2458-5-OTDR-NM TRAB24/49003 TRAB8903NP TRAB9023NP W3908B0100 W6102B0100 YE572113-30RSMM SPDA17RP918 OP24516SX-91NM OP24516SX-91RSMM CMS69273-30NF CMS69273P-30NF TRAB24003N TRAB24003NP TRAB8213NP TRAB8903 A09-Y8NF A09-Y11NF A09-HSM-7 A09-F8NF-M A09-F5NF-M TRA9023P 108-00016-050 W3593B0100 GPSU15P W3921B0100