

1.575GHz GPS Ceramic Chip Antenna

(Ground cleared under antenna, clearance area 7.80 mm x 5.25 mm)

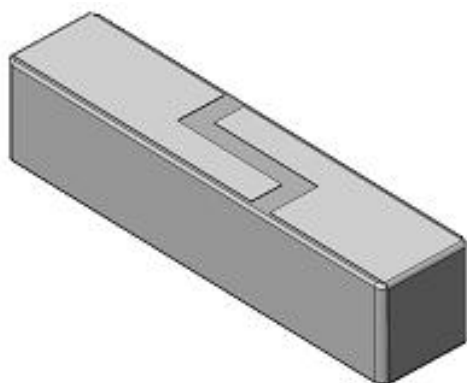
Pulse Part Number: W3062A

Features

- Omni directional radiation
- Low profile
- Compact size W x L x H (7 x 1.6 x 1.6 mm)
- Low weight (86 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 and Ground Clearance area size.

GPS

Typical performance (testboard size 80 x 37 mm, PWB ground clearance area 7.80 mm x 5.25 mm)

Frequency Range [MHz]	RHCP Gain [dBic]	Linear Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [$^{\circ}$ C]
1575.42 +/- 10	0 (peak) -0,5 (band edges)	2,5 (peak) 2 (band edges)	80 / -1 (peak) 75 / -1,25 (band edges)	-10	50	-40 to +85

Pulse Finland Oy

Takatie 6
90440 Kempele, Finland
Tel: +358 207 935 500
Fax: +358 207 935 501

Domicile: Kempele
Business ID: 1933992-8
firstname.lastname@pulseeng.com
www.pulseeng.com/antennas

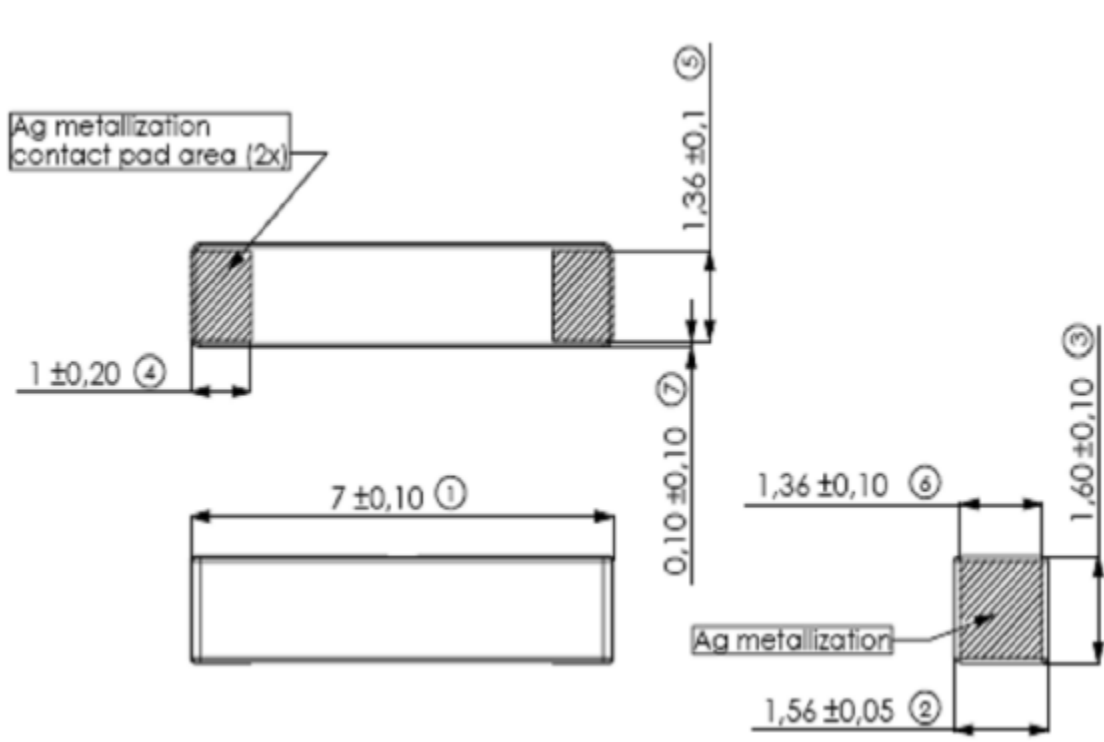


© 2006. All Rights Reserved.

GPS Ceramic Chip Antenna

(Ground cleared under antenna, clearance area 7.80 mm x 5.25 mm)

terminal configuration and dimensions



Antenna features		
No.	Terminal Name	Terminal Dimensions
1	Feed / GND	1.00 x 1.36 mm
2	Feed / GND	1.00 x 1.36 mm

Antenna is symmetrical.
Either of terminals 1 or 2 can be Feed / GND

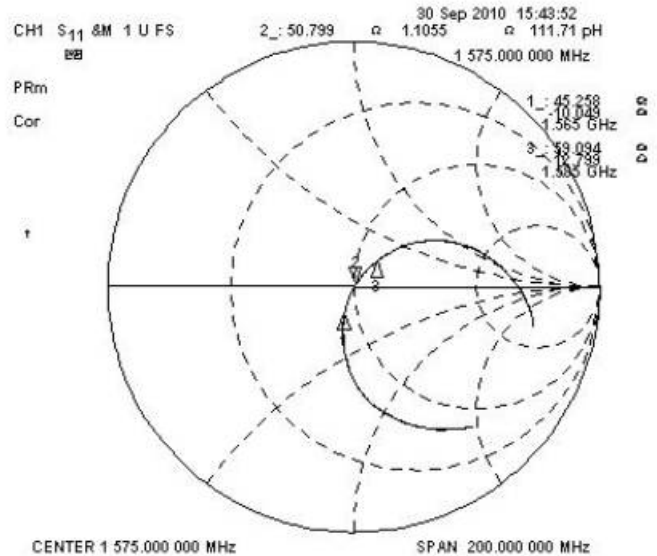
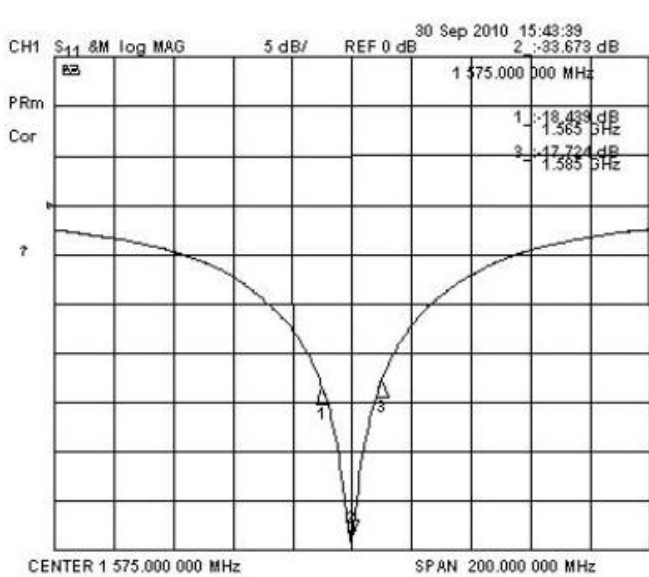
GPS Ceramic Chip Antenna

(Ground cleared under antenna, clearance area 7.80 mm x 5.25 mm)

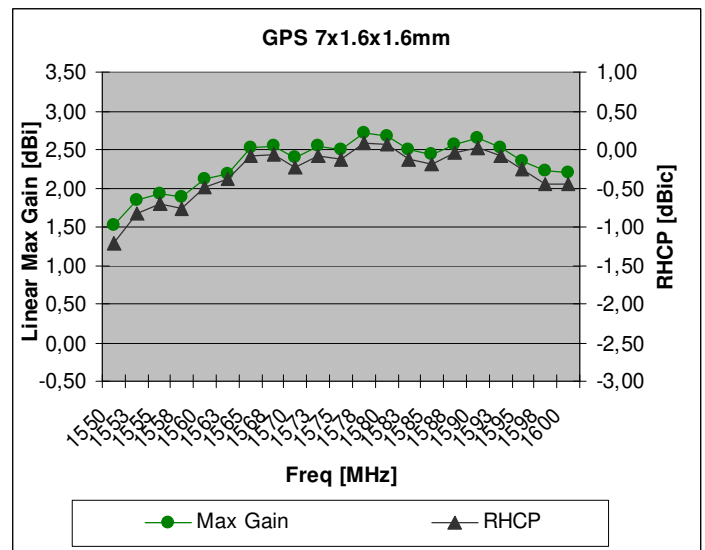
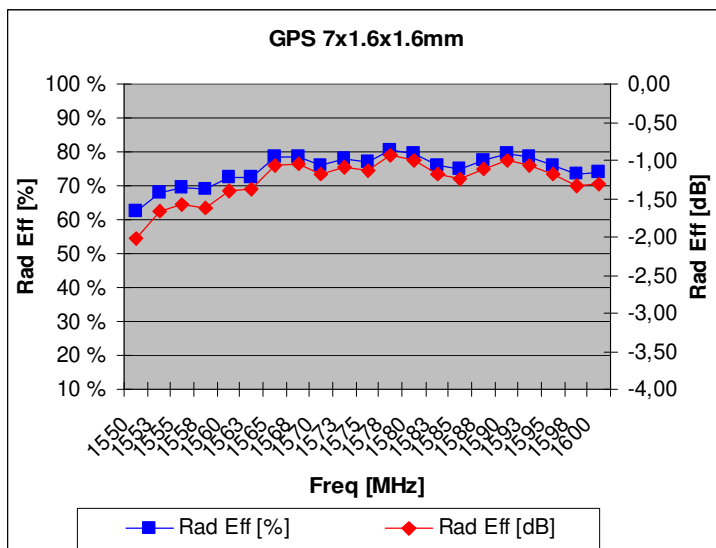
Typical Electrical Characteristics (T= 25 °C)

Measured on the 80 x 37mm test board. Matched with 2.2pF shunt capacitor

Typical Return Loss S11/ impedance



Free space efficiency, maximum gain and RHCP

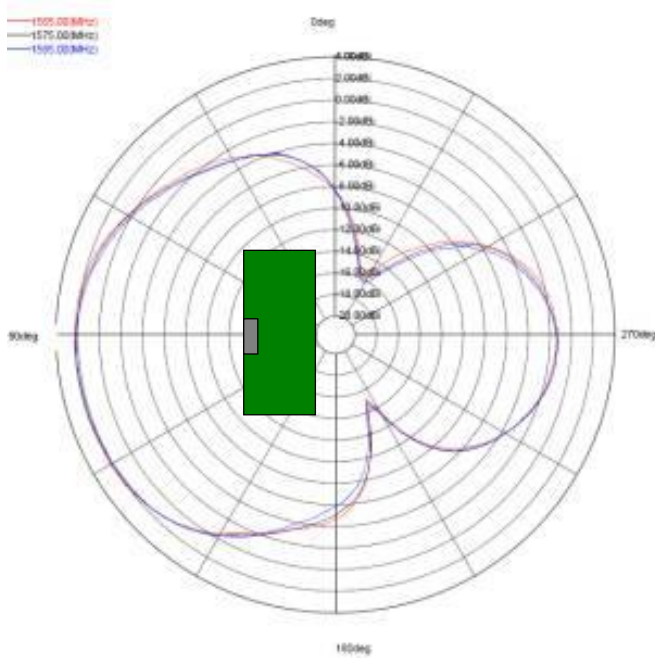


GPS Ceramic Chip Antenna

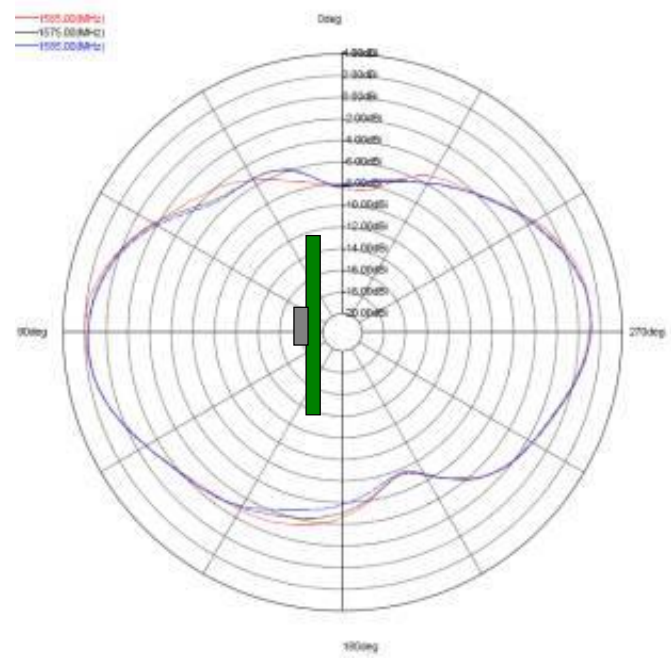
(Ground cleared under antenna, clearance area 7.80 mm x 5.25 mm)

Typical Free space Radiation Patterns

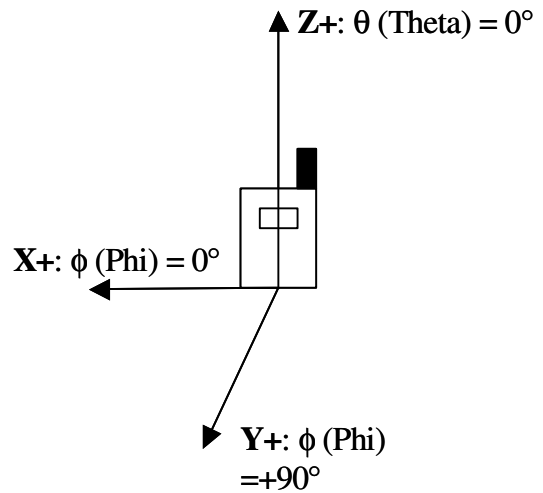
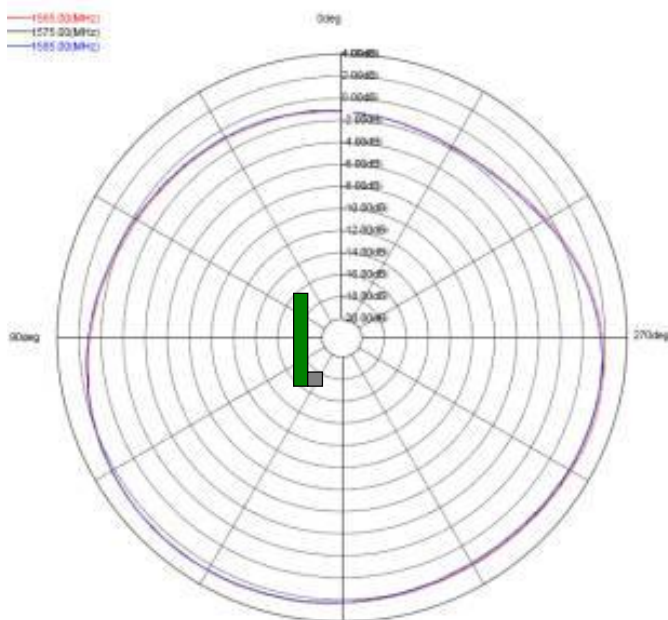
XZ-PLANE



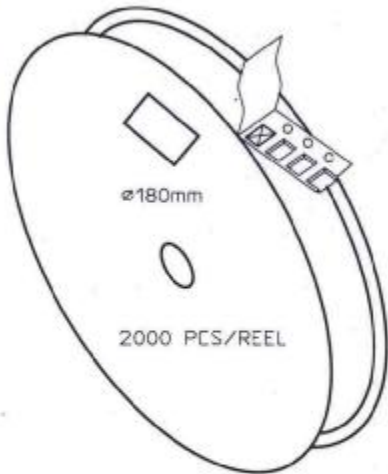
ZY-PLANE



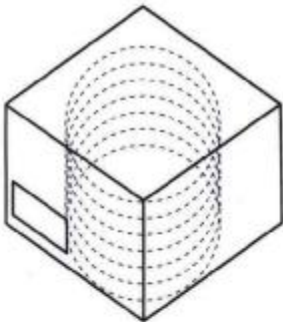
XY-PLANE




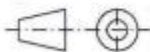
Packing form



CARRIER TAPE H85-00192
 width=16,00 depth=1.70
 COVER TAPE H85-00193
 width=13.40
 LENGTH OF TAPE:
 - Leader section: min 350 mm before component section
 - Trailer section: min 40 mm after component section.
 Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.



BOX H85-00128 1 pcs
 (182x182x125)
 - LABEL 1 pcs/BOX
 REEL H85-00164 6 pcs
 (D180, W28)
 - REEL LABEL 1 pcs/REEL

MATERIAL			
HANDLINGS			
		RATIO	DRWN 161007 PeHa H
			DGNER
PRODUCT H90-0Y838			CHKD
			APPRD
DENOMINATION PACKING FORM			APPRD BY
			C
			B
			A
		VERSION	MOD/DATE/NAME