

1.575GHz GPS Ceramic Chip Antenna

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

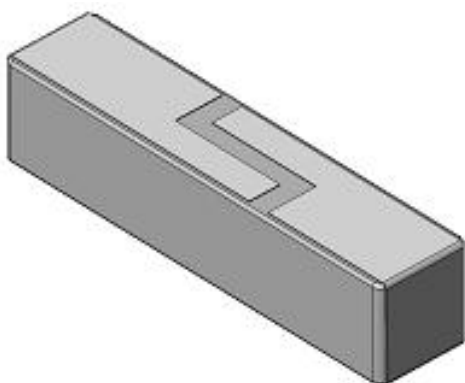
Pulse Part Number: W3062A

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 [°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

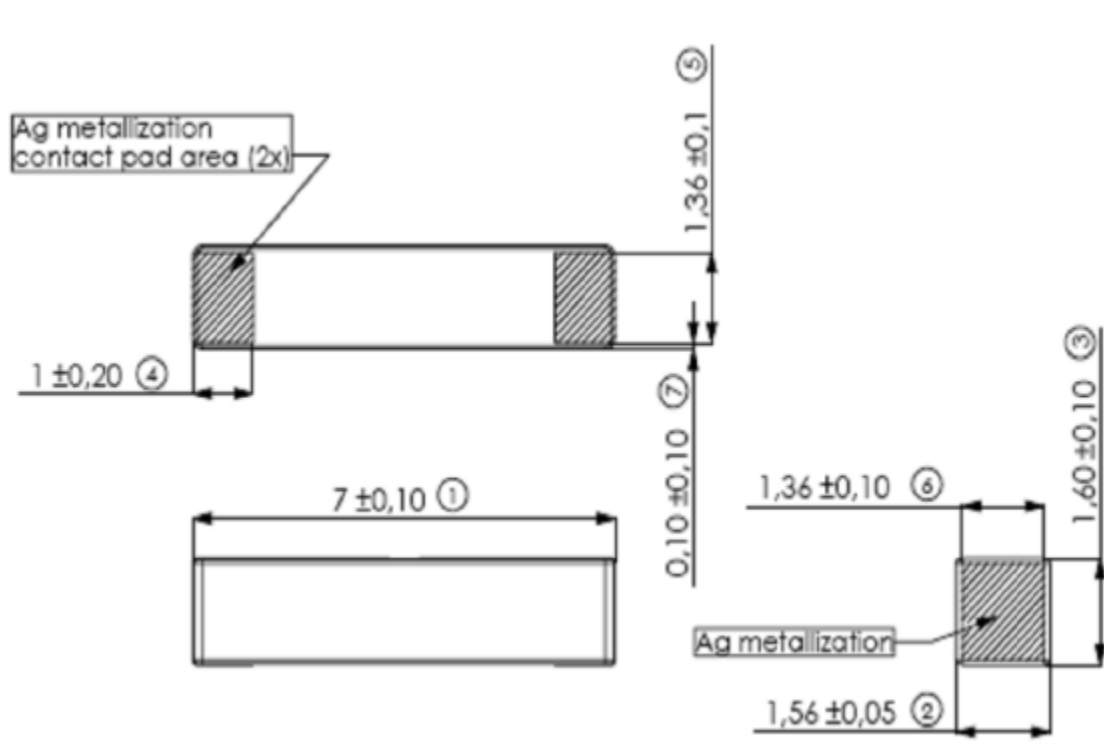
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terminal configuration and dimensions



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		

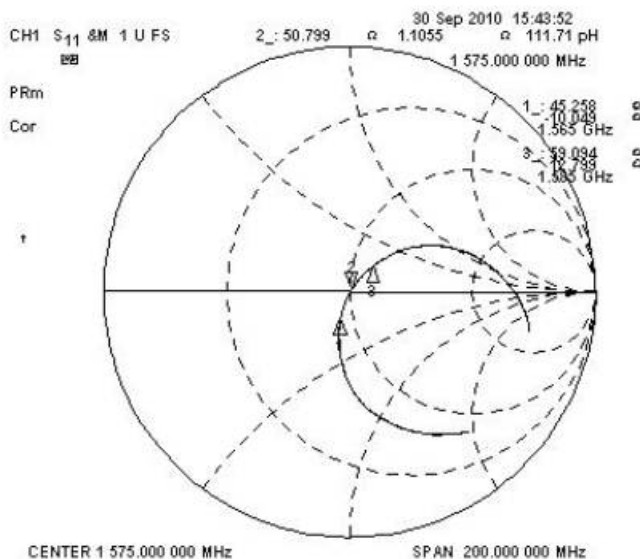
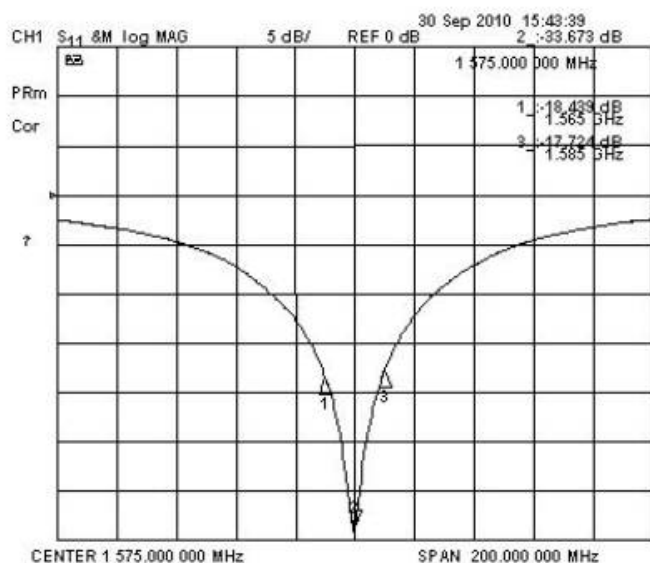
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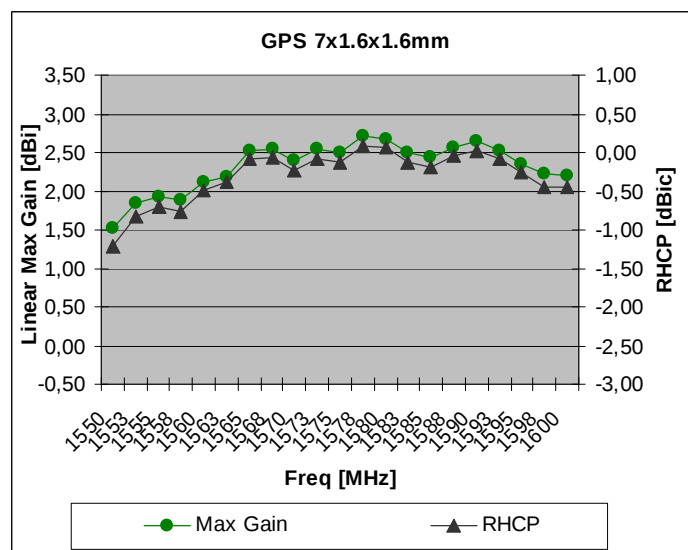
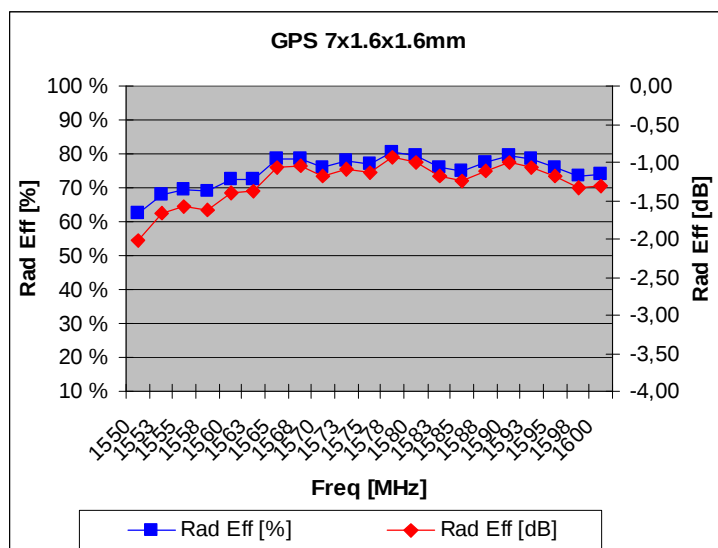
Typical Electrical Characteristics (T=25 °C)

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



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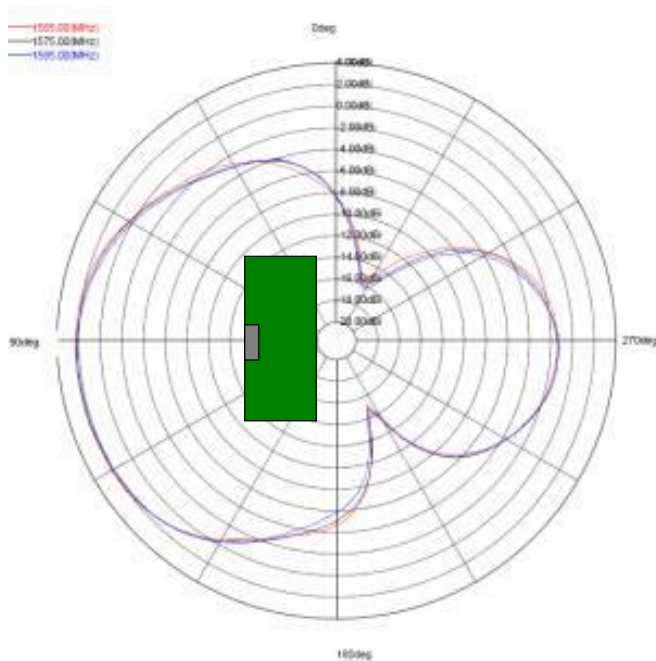
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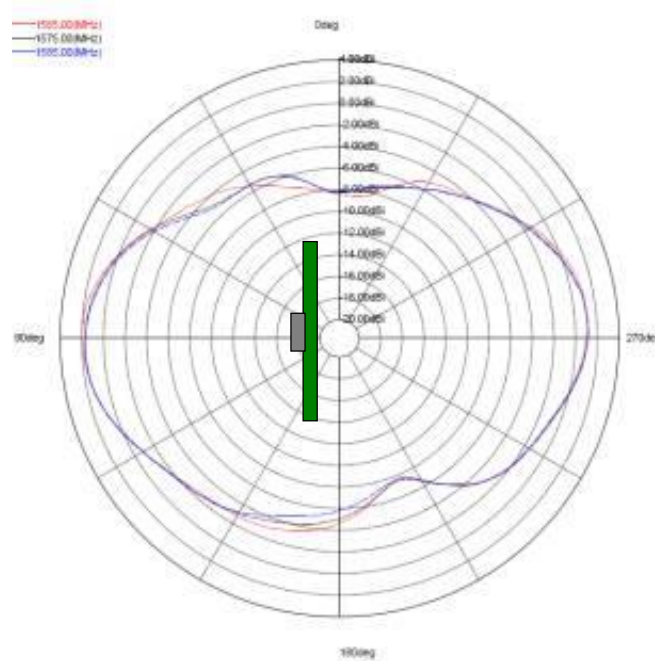
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Typical Free space Radiation Patterns

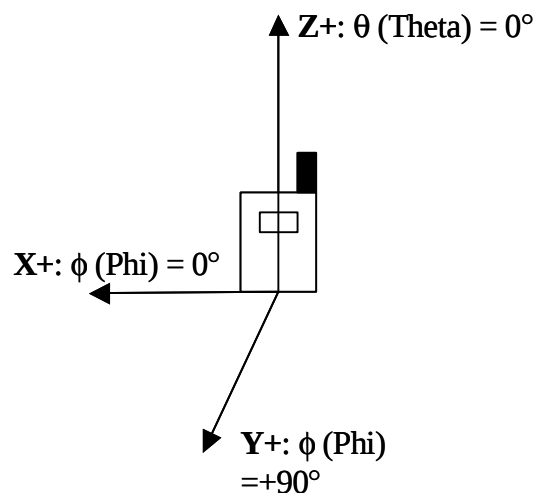
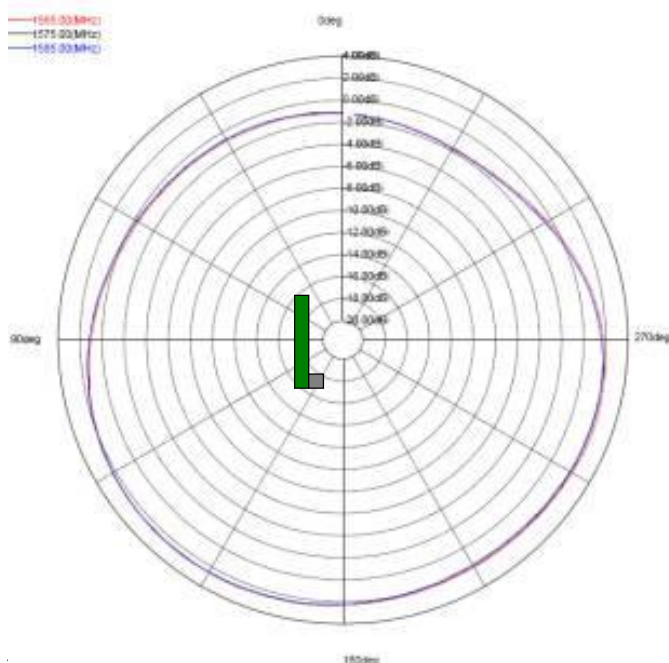
XZ-PLANE

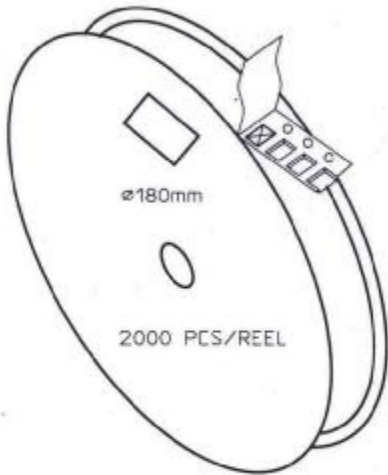


ZY-PLANE



XY-PLANE



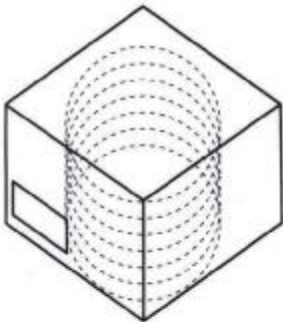
Packing form


CARRIER TAPE H85-00192
 width=16,00 depth=1.70
 COVER TAPE H85-00193
 width=13.40

LENGTH OF TAPE:

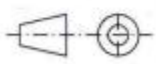
- Leader section: min 350 mm before component section
- Trailer section: min 40 mm after component section.

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
			CHKD
			APPRD
			APPRD BY
PRODUCT H90-OY838			C
DENOMINATION			B
PACKING FORM			A
		VERSION	MOD/DATE/NAME

Mouser Electronics

Authorized Distributor

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Pulse:

W3062A