

1.575GHz GPS Ceramic Chip Antenna

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

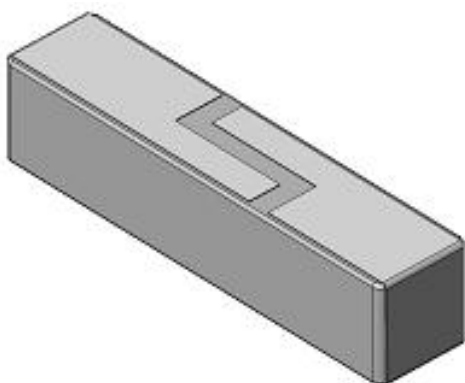
Pulse Part Number: W3062A

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 |

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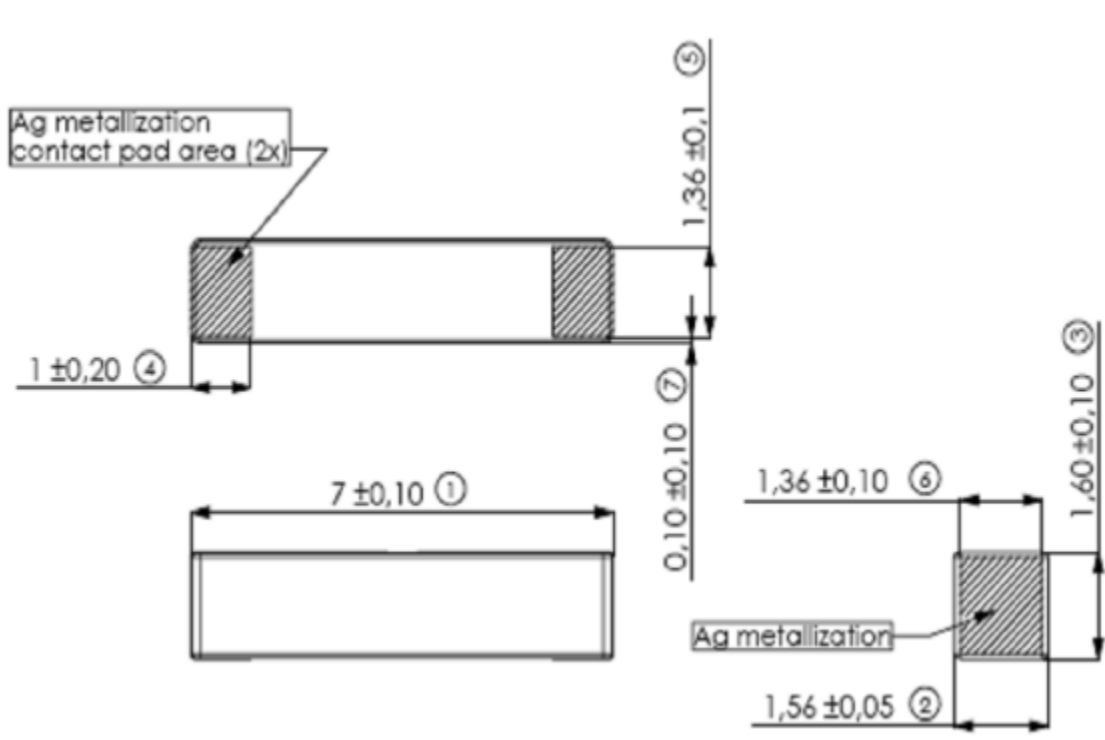


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GPS Ceramic Chip Antenna

(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 | | |

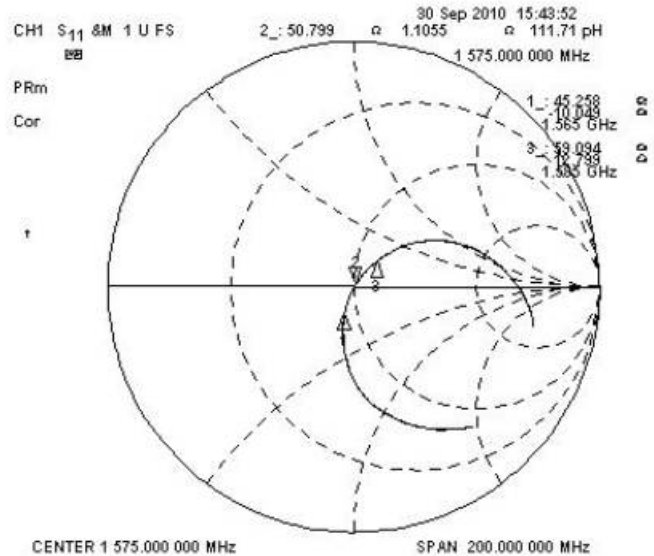
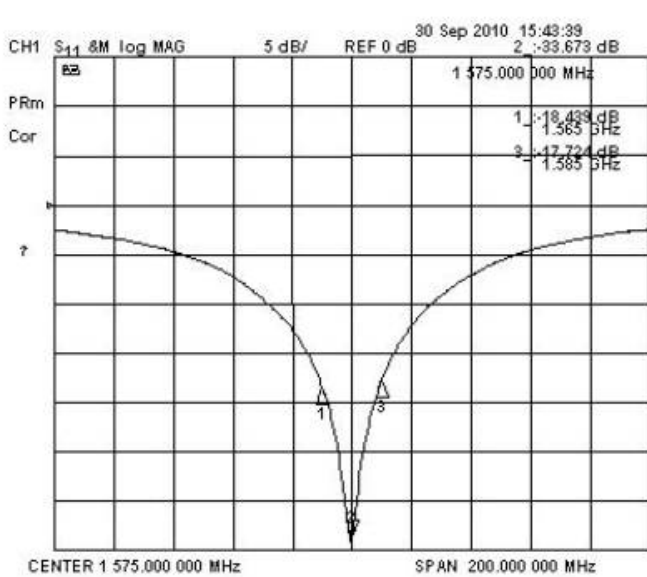
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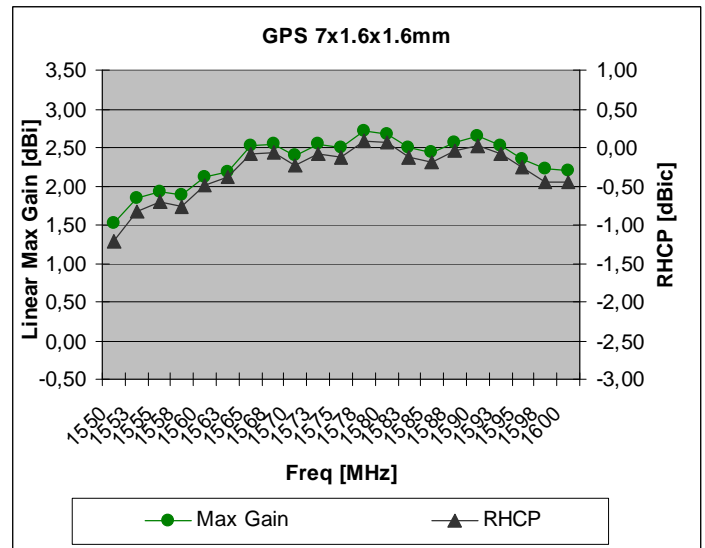
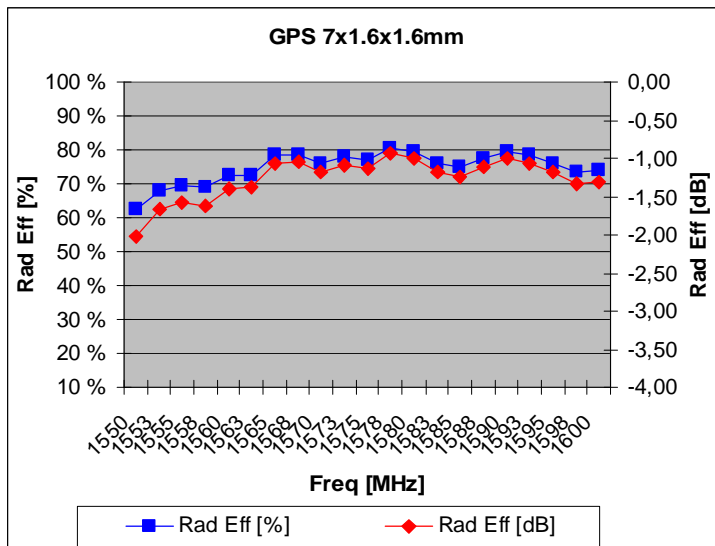
Typical Electrical Characteristics (T=25 °C)

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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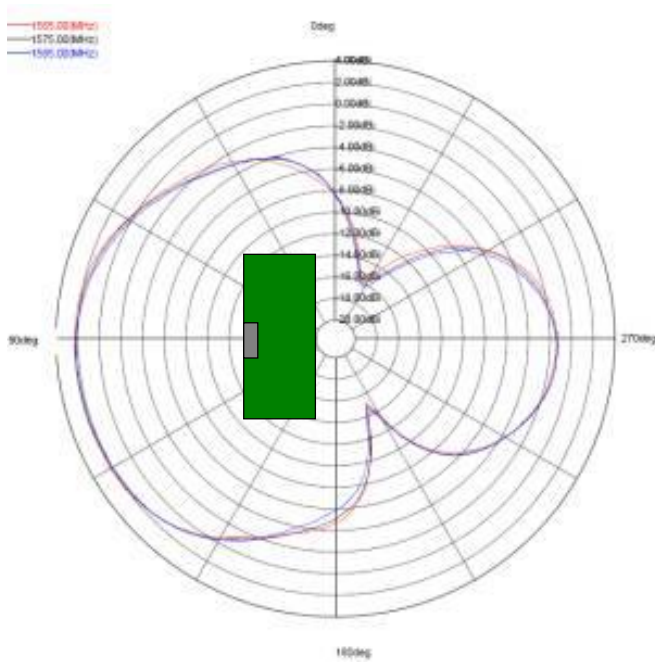


GPS Ceramic Chip Antenna

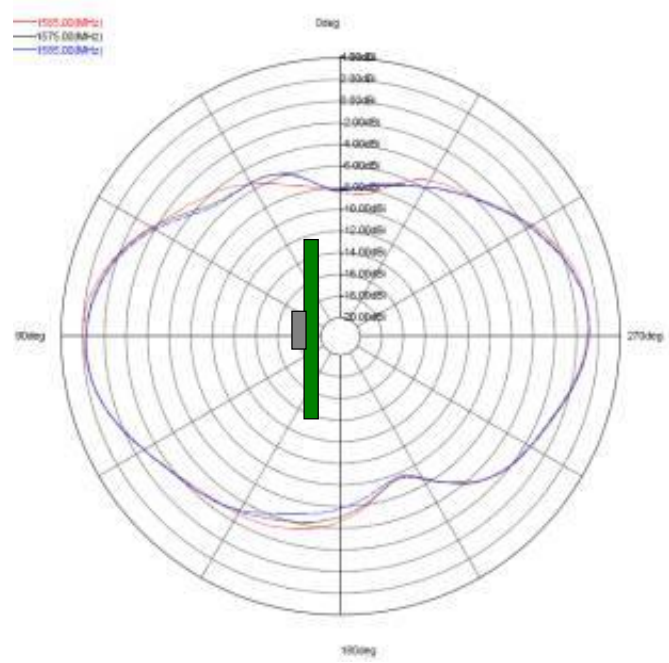
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Typical Free space Radiation Patterns

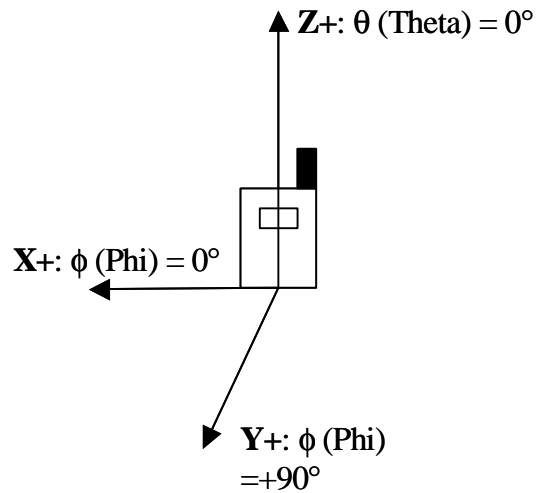
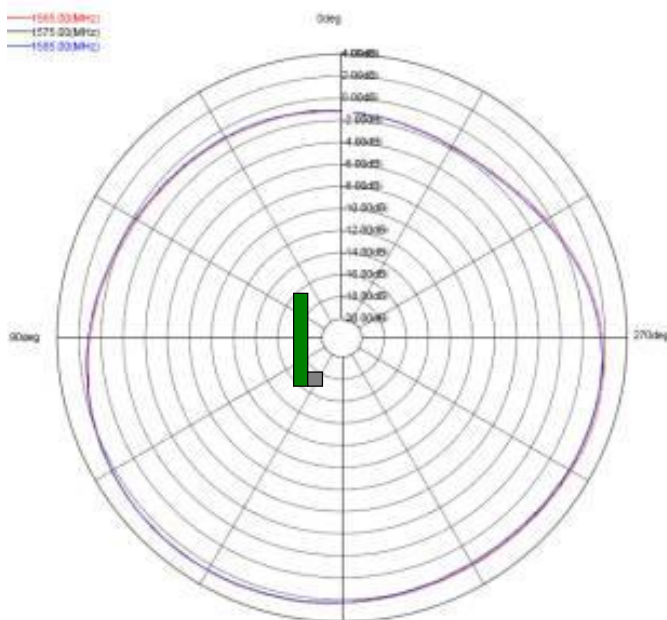
XZ-PLANE



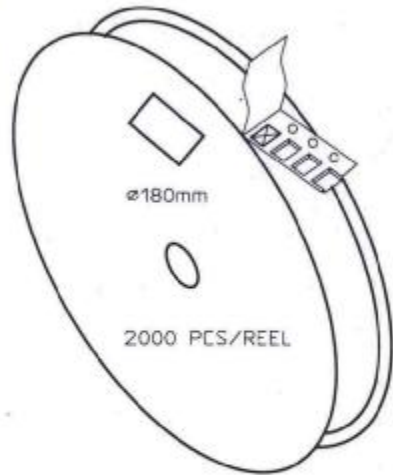
ZY-PLANE



XY-PLANE



Packing form

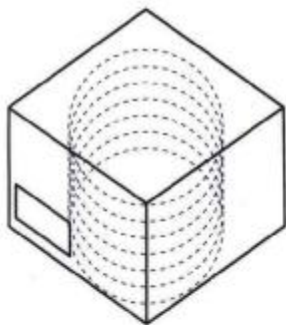


CARRIER TAPE H85-00192
width=16,00 depth=1.70
COVER TAPE H85-00193
width=13.40


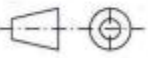
LENGTH OF TAPE:

- 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 G |
| PRODUCT H90-0Y838 | | | CHKD F |
| | | | APPRD E |
| DENOMINATION PACKING FORM | | | APPRD BY D |
| | | | C |
| | | | B |
| | | | A |
| | | VERSION | MOD/DATE/NAME |

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