

GPS Active Antenna

GA-723

GA-723 is an ideal active antenna for your GPS / GLONASS system applications. With 42 x 35 x 14 mm in size, it best fit into your system with maximum performance.



Key Features :

- Small form factor & light weight
- GPS band or GPS / GLONASS dual band
- Lead-Free – RoHS/WEEE compliant
- LNA gain of 27dB*
- Low noise figure
- Build-in filter with high out of band rejection
- Connector selection, Fakra SMB plug, SMA-M, IPex
- RG174 cable 5M or 3M
- Wide power supply range
- Low power consumption
- IPX67 waterproof*
- Magnetic mount*



Applications :

- Automotive and Marine Navigation / Tracking
- Emergency Locator
- Geographic Surveying

* Selective models

PRELIMINARY



TRANSYSTEM INC

An A+ supplier of RF microwave & GPS products

Ultimate

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Specifications

| Category | Item | GA-723 (GPS / Glonass) |
|-------------|-----------------------|-----------------------------------|
| Look & Feel | Size (WxLxT)* | 42x35x14 mm (with casing) |
| | Weight | < 45g (w/o cable) |
| | Mounting | Magnetic mount (with casing) |
| | Cable* | RG174, 5M or 3M |
| | Connector* | SMB Fakra plug, SMA-M, IPex |
| Patch | Frequency | 1573MHz ~1610MHz |
| | Dimension | 25x25x4 mm |
| | Polarization | RHCP |
| | Bandwidth | 50 MHz min |
| | Peak Gain | 1 dBic min |
| | Axial Ratio | 3.0 dB max |
| | VSWR | 2.0 dB max |
| | Impedance | 50Ω |
| LNA | Gain* | 27dB typ @3.3V / +25°C, w/o cable |
| | Noise Figure | 1.5 dB max @+25°C |
| | Output VSWR | 2.0 dB max |
| | Out of band rejection | 30dB min (± 50MHz) |
| Power | Supply Voltage | 2.7~5.5Vdc |
| | Supply Current | 12mA typ @3.3V |
| Environment | Operating Temp. | -40 ~ +85°C |
| | Storage Temp. | -40 ~ +125°C |
| | Humidity | 5% to 90% non-condensing |
| | Waterproof | IP67 (with casing) |
| | ESD | 8KV pass |
| | Certification | RoHS |

Note : 1. Standard testing conditions are 25°C, 3V Vcc, 65% RH

2. Specifications subject to change without prior notice.

3. Items with “*”, please refer to ordering info.

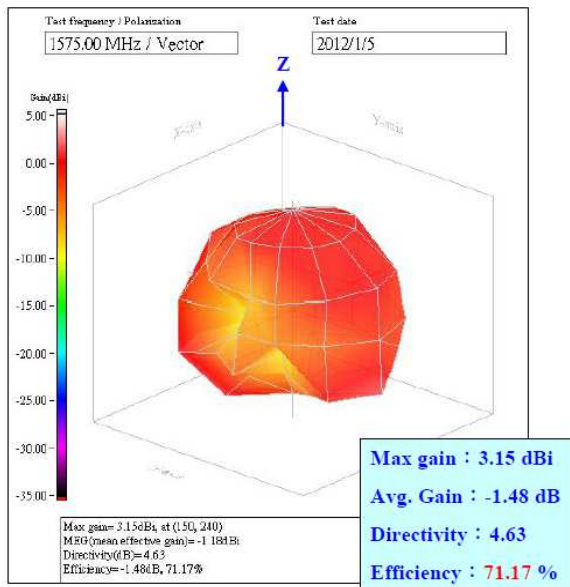
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Order information

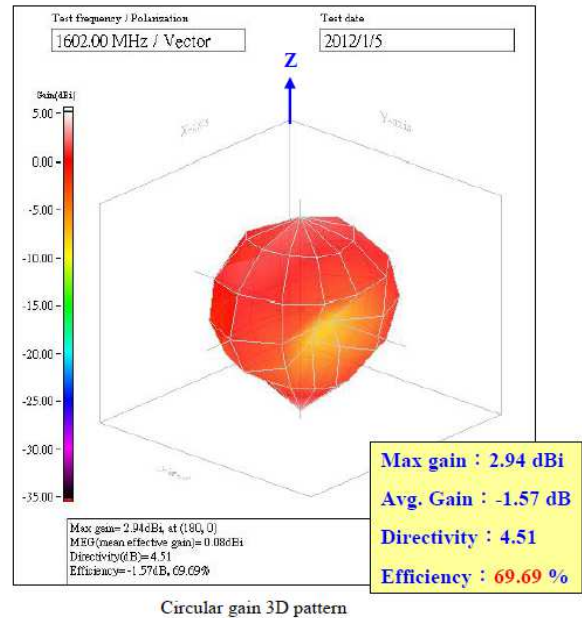
| Model # | Cable Length | Connector | Casing | Dimension | LNA Gain |
|---------|--------------|----------------|--------|-------------|----------|
| GA-723A | 100mm | IPex | No | 35x29x7 mm | 14dB typ |
| GA-723B | 3M | SMA-M | Yes | 42x35x14 mm | 27dB typ |
| GA-723C | 5M | SMA-M | Yes | 42x35x14 mm | 27dB typ |
| GA-723D | 5M | SMB Fakra plug | Yes | 42x35x14 mm | 27dB typ |

Radiation Pattern

GPS (1.575GHz) :

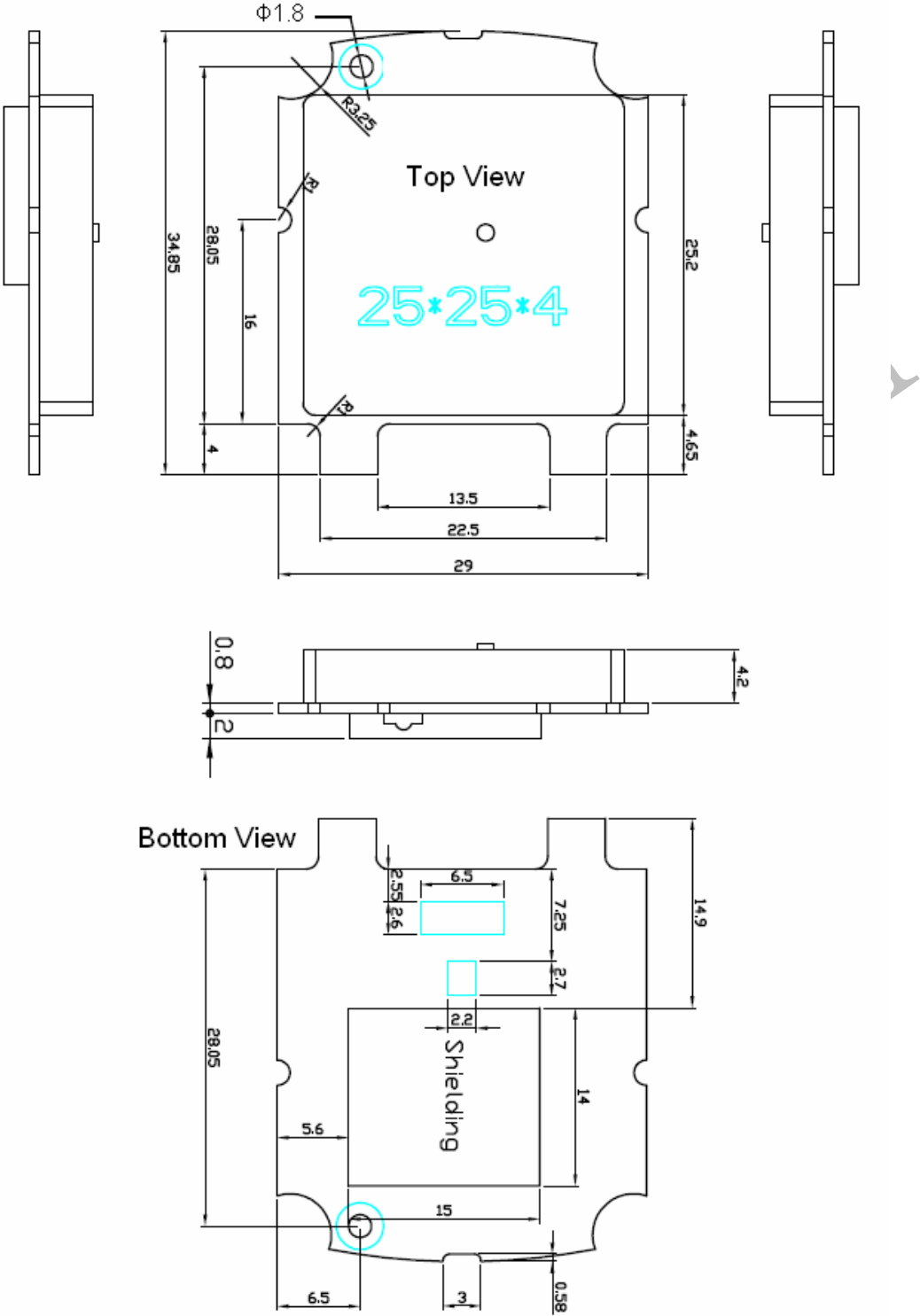


Glonass (1.602GHz) :



Outline Drawing

GA-723A Outline Drawing



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