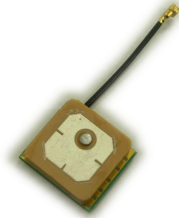


GPS Active Antenna

GA-310

GA-310 is an ideal active GPS antenna for your embedded system applications. With 17 x 15 x 6.8 mm in size, it best fit into your GPS system with maximum performance.



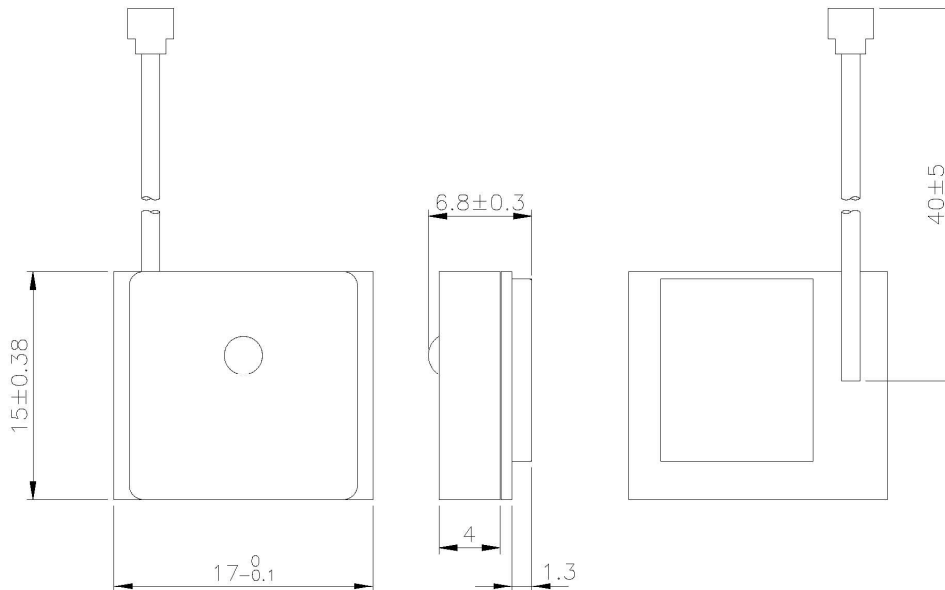
Key Features:

- Small form factor: 17 x 15 x 6.8 mm
- Lead-Free – RoHS/WEEE compliant
- LNA gain up to 15dB
- Low power consumption
- 40mm cable with I-Pex connector

Applications:

- Handheld devices
- Automotive and Marine Navigation
- Automotive Navigator Tracking
- Emergency Locator
- Geographic Surveying
- Personal Positioning
- Sporting and Recreation
- Embedded applications : PDA, DSC, Smart phone, UMPC, PND, MP4

Dimension:



TRANSYSTEM INC.

An A⁺ supplier of RF microwave & GPS products

**Ultimate
Antenna**

GA-310 Specifications

| Item | Symbol | Specification | Unit | Note |
|-----------------------|----------|--------------------|------|----------------------------|
| Central Frequency | f_c | 1575±3 | MHz | |
| Output Impedance | Z_o | 50 | Ohm | At f_c |
| Antenna Gain | G_A | 2.5 | dBi | Elevation 90 degree |
| Axial Ratio | R_a | 1.2 | dB | Elevation 90 degree |
| LNA Gain | G_L | 15 | dB | At f_c , No SAW filter |
| Noise Figure | NF | 1.3 | dB | At f_c , 1.8dB Max. |
| In Band Flatness | | 1 | dB | $\leq f_c \pm 1\text{MHz}$ |
| Output VSWR | | 2.0 _{max} | | At f_c |
| Supply Voltage | V_{cc} | 2.7~5 | Vdc | |
| Power Consumption | I_{cc} | 3 | mA | |
| Operating Temperature | T_{op} | -30 ~ +85 | °C | |
| Storage Temperature | T_s | -40 ~ +125 | °C | |
| Operating Humidity | | $\leq 95\%$ | | Non-condensing |
| Dimension | | 17 x 15 x 6.8 | mm | |

Note : 1. Standard testing conditions are 25°C, 3V V_{cc} , 65% RH
 2. Specifications are subject to exterior case supplied by customer.

*Specifications subject to change without prior notice.
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