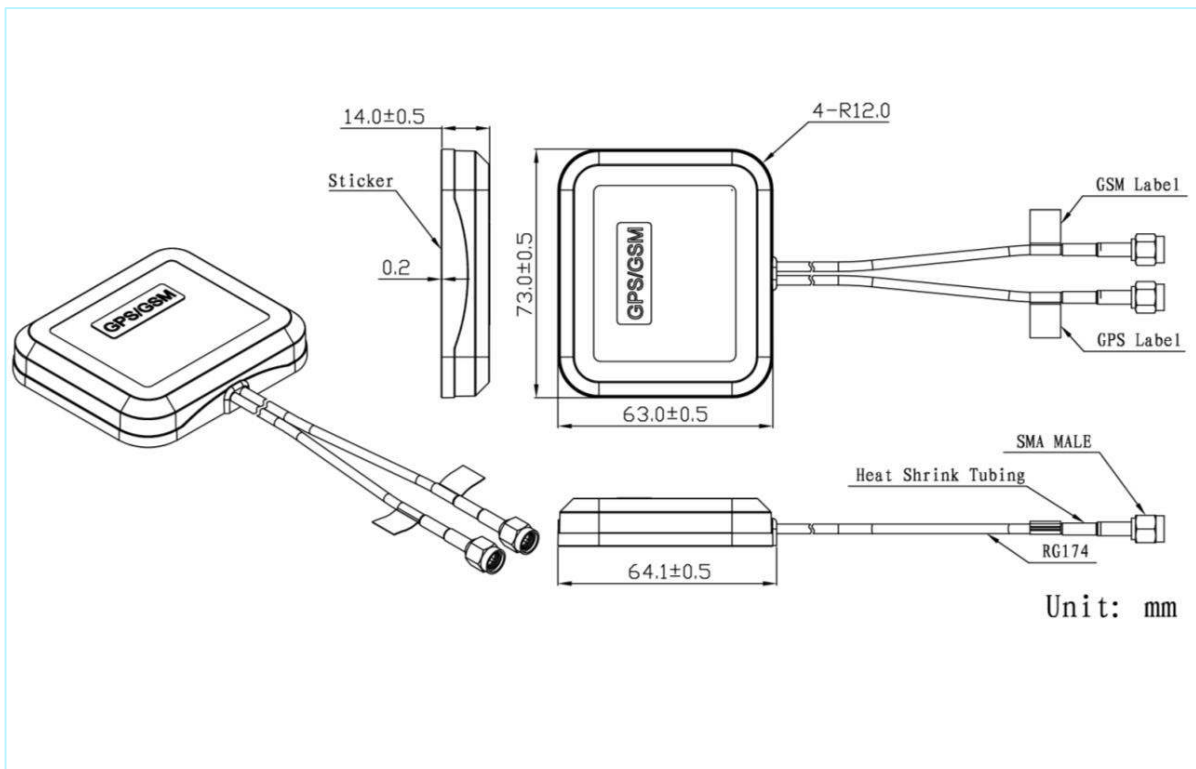


# GPS+GSM Combination Antenna Patch shape adhesive

## AN\_GPS\_GSM\_010



### Mechanical dimension



# GPS+GSM Combination Antenna Patch shape adhesive

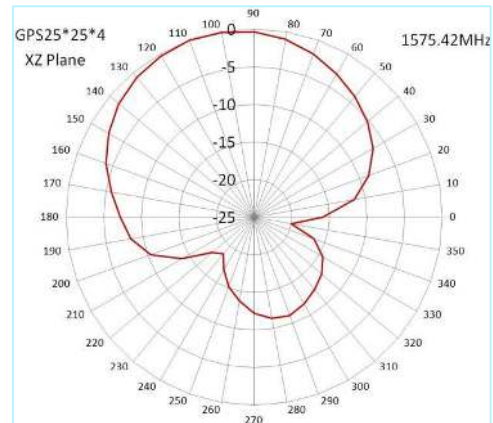
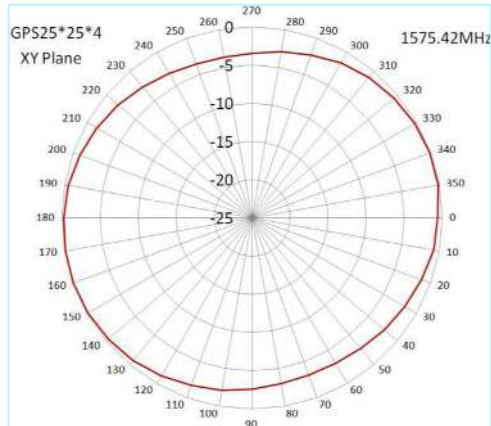
## Specifications

| Item          |                    | Specifications           |   |
|---------------|--------------------|--------------------------|---|
| GPS Antenna   | Dielectric Antenna | Center Frequency         | 1575.42±3MHz                              |
|               |                    | Band Width               | CF±5MHz                                   |
|               |                    | Polarization             | RHCP                                      |
|               |                    | Gain                     | 2dBic (Zenith)                            |
|               |                    | V.S.W.R                  | <1.5                                      |
|               |                    | Impedance                | 50Ω                                       |
|               | LNA                | Gain                     | 28±2dB                                    |
|               |                    | Noise Figure             | <1.5dB                                    |
|               |                    | V.S.W.R                  | <2.0                                      |
|               |                    | Supply Voltage           | 2.2~5V DC                                 |
|               |                    | Current Consumption      | < 15mA                                    |
| GSM Antenna   |                    | Frequency Range          | 824~960MHz/1710~2170MHz                   |
|               |                    | V.S.W.R(min)             | <2.0                                      |
|               |                    | Polarization             | Linear                                    |
|               |                    | Gain                     | 2dBi                                      |
|               |                    | Impedance                | 50Ω                                       |
| Mechanical    |                    | Cable                    | 5 meters                                  |
|               |                    | Connector                | SMA male for all the leads                |
|               |                    | Material                 | ABS                                       |
|               |                    | Mounting Method          | Adhesive                                  |
| Environmental |                    | Operating Temperature    | -40℃~+85℃                                 |
|               |                    | Relative Humidity        | Up to 95%                                 |
|               |                    | Ingress Protection       | IP66                                      |
|               |                    | Vibration                | 10 to 55Hz with 1.5mm amplitude<br>2hours |
|               |                    | Environmentally Friendly | ROHS Compliant                            |

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## Radiation Patterns

GPS part Pattern



GSM Part Pattern

