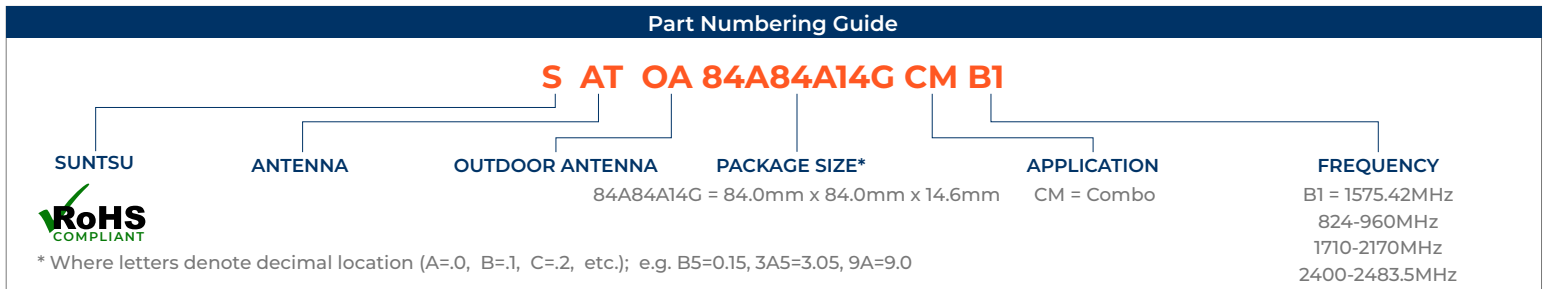


| Features   |
|--|
| <ul style="list-style-type: none"> <li>GPS, GSM &amp; WIFI</li> <li>Outdoor Antenna</li> <li>Stable And Reliable Performance</li> <li>1575.42MHz, 824-960MHz, 1710-2170MHz &amp; 2400-2483.5MHz</li> </ul> |

| Applications   |
|--|
| <ul style="list-style-type: none"> <li>Vehicle Tracking</li> <li>Asset Tracking</li> <li>GPS Navigation</li> <li>Machine To Machine Communication</li> </ul> |



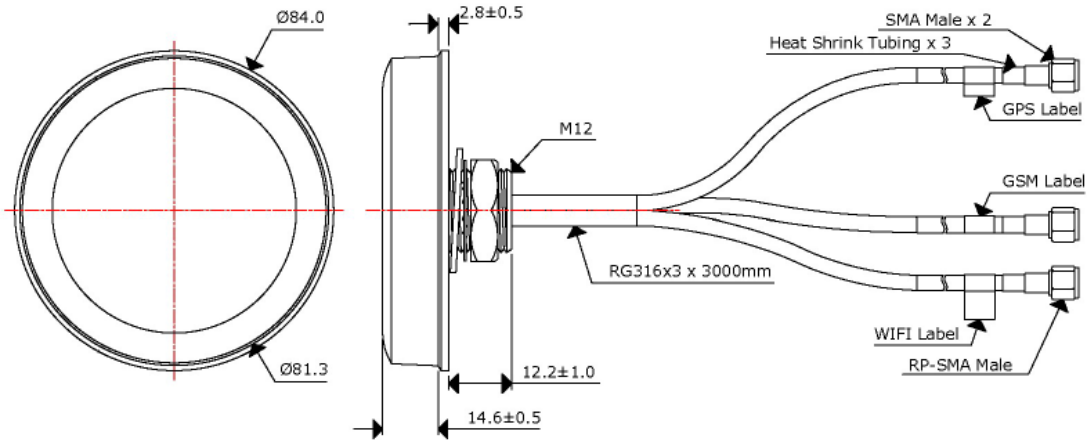
| Electrical Parameters (GPS) | Units | Minimum | Typical | Maximum | Remarks                |
|-----------------------------|-------|---------|---------|---------|------------------------|
| Frequency Band              | MHz   |         | 1575.42 |         |                        |
| Impedance                   | Ω     |         | 50      |         |                        |
| Polarization                |       |         | RHCP    |         |                        |
| Peak Gain                   | dBi   |         | 2       |         | For Dielectric Antenna |
| VSWR                        |       |         |         | 1.5     | For Dielectric Antenna |
| Peak Gain                   | dBi   |         | 28      |         | For LNA Antenna        |
| VSWR                        |       |         |         | 2       | For LNA Antenna        |
| Operating Temperature       | °C    | -40     |         | 85      |                        |

| Electrical Parameters (GSM) | Units | Minimum | Typical | Maximum | Remarks             |
|-----------------------------|-------|---------|---------|---------|---------------------|
| Frequency Band              | MHz   | 824     |         | 960     |                     |
| Impedance                   | Ω     |         | 50      |         |                     |
| Polarization                |       |         | Linear  |         |                     |
| Peak Gain                   | dBi   |         | 2       |         | At Center Frequency |
| VSWR                        |       |         |         | 2       | At Center Frequency |
| Operating Temperature       | C     | -40     |         | 85      |                     |
| Frequency Band              | MHz   | 1710    |         | 2170    |                     |
| Impedance                   | Ω     |         | 50      |         |                     |
| Polarization                |       |         | Linear  |         |                     |
| Peak Gain                   | dBi   |         | 2       |         | At Center Frequency |
| VSWR                        |       |         |         | 2       | At Center Frequency |
| Operating Temperature       | °C    | -40     |         | 85      |                     |

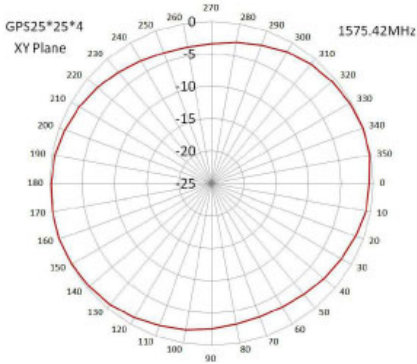
| Electrical Parameters (WiFi) | Units              | Minimum | Typical | Maximum | Remarks             |
|------------------------------|--------------------|---------|---------|---------|---------------------|
| Frequency Band               | MHz                | 2400    |         | 2483.5  |                     |
| Impedance                    | $\Omega$           |         | 50      |         |                     |
| Polarization                 |                    |         | Linear  |         |                     |
| Peak Gain                    | dBi                |         | 3       |         | At Center Frequency |
| VSWR                         |                    |         |         | 2       | At Center Frequency |
| Operating Temperature        | $^{\circ}\text{C}$ | -40     |         | 85      |                     |

### Outline Drawing

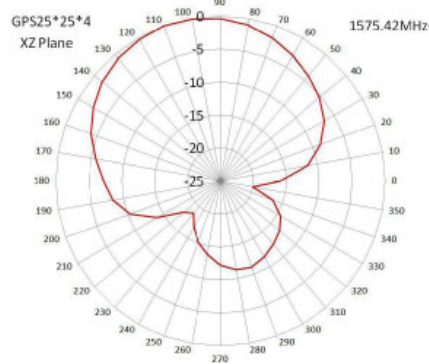
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



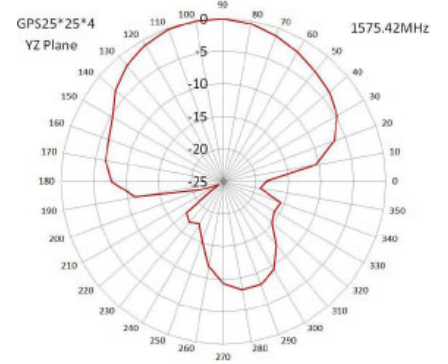
**Radiation Pattern (GPS XY)**



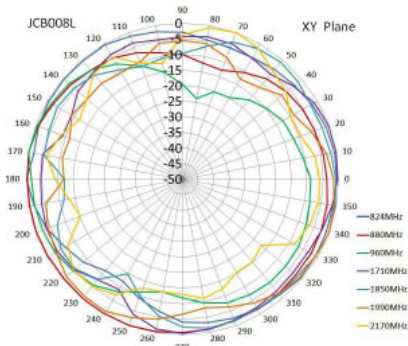
**Radiation Pattern (GPS XZ)**



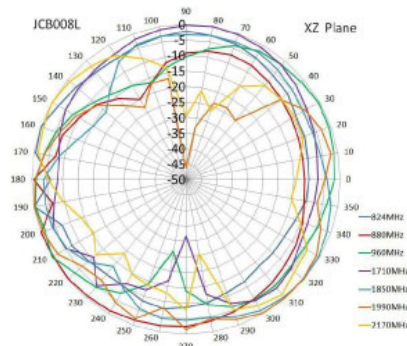
**Radiation Pattern (GPS YZ)**



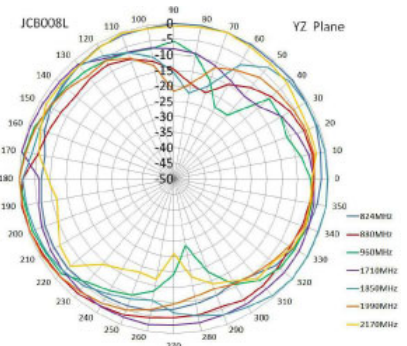
Radiation Pattern (GSM XY)



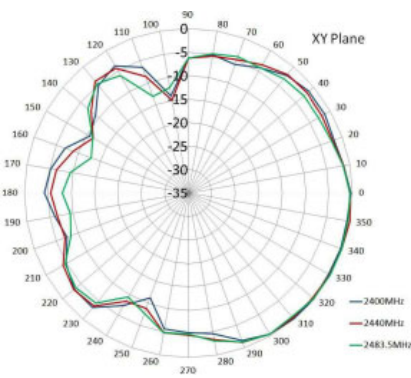
Radiation Pattern (GSM XZ)



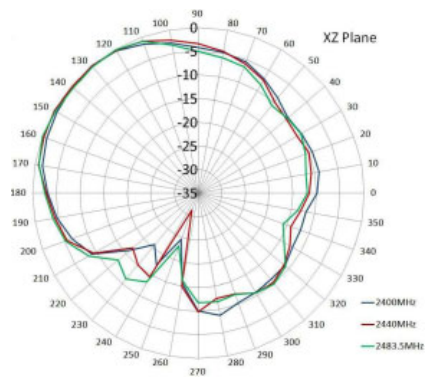
Radiation Pattern (GSM YZ)



Radiation Pattern (WiFi XY)



Radiation Pattern (WiFi XZ)



Radiation Pattern (WiFi YZ)

