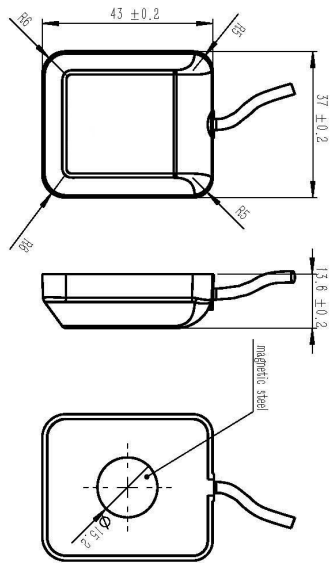
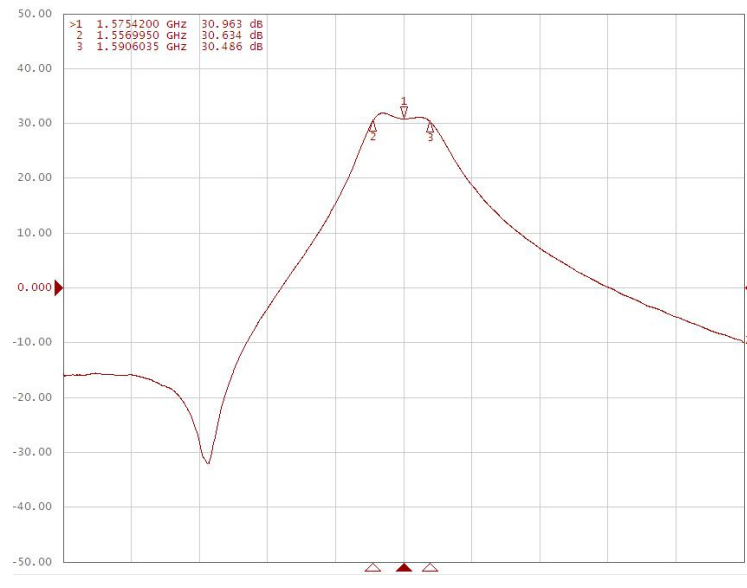


|                                                                                     |                    |                                                                                                                                                                                                                                                                                           |           |           |    |               |           |   |               |           |   |               |           |
|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----|---------------|-----------|---|---------------|-----------|---|---------------|-----------|
| Part NO. SS-GPE2540P272B3/SS010                                                     |                    | Type GPS External Active Antenna                                                                                                                                                                                                                                                          |           |           |    |               |           |   |               |           |   |               |           |
| Electrical Characteristics                                                          |                    |                                                                                                                                                                                                                                                                                           |           |           |    |               |           |   |               |           |   |               |           |
| Antenna                                                                             |                    |                                                                                                                                                                                                                                                                                           |           |           |    |               |           |   |               |           |   |               |           |
| 1                                                                                   | Antenna model      | 25*25*4mm                                                                                                                                                                                                                                                                                 |           |           |    |               |           |   |               |           |   |               |           |
| 2                                                                                   | Frequency Range    | 1575.42MHz±1.023MHz                                                                                                                                                                                                                                                                       |           |           |    |               |           |   |               |           |   |               |           |
| 3                                                                                   | V.S.W.R            | 1.5 max                                                                                                                                                                                                                                                                                   |           |           |    |               |           |   |               |           |   |               |           |
| 4                                                                                   | Band With@RL=-10dB | >10MHz                                                                                                                                                                                                                                                                                    |           |           |    |               |           |   |               |           |   |               |           |
| 5                                                                                   | Gain@Zenith        | 5dBi@70*70mm Gtound                                                                                                                                                                                                                                                                       |           |           |    |               |           |   |               |           |   |               |           |
| 6                                                                                   | Impedance          | 50 Ω                                                                                                                                                                                                                                                                                      |           |           |    |               |           |   |               |           |   |               |           |
| 7                                                                                   | Polarization       | RHCP                                                                                                                                                                                                                                                                                      |           |           |    |               |           |   |               |           |   |               |           |
| 8                                                                                   | Axial Ratio@Zenith | <3dB                                                                                                                                                                                                                                                                                      |           |           |    |               |           |   |               |           |   |               |           |
| LNA                                                                                 |                    |                                                                                                                                                                                                                                                                                           |           |           |    |               |           |   |               |           |   |               |           |
| 1                                                                                   | Frequency Range    | 1555MHz~1580MHz                                                                                                                                                                                                                                                                           |           |           |    |               |           |   |               |           |   |               |           |
| 2                                                                                   | DC Voltage         | 1.5V(min)                                                                                                                                                                                                                                                                                 | 3.0V(typ) | 3.6V(max) |    |               |           |   |               |           |   |               |           |
| 3                                                                                   | DC current         | 7.3mA                                                                                                                                                                                                                                                                                     | 8.5mA     | 10.0mA    |    |               |           |   |               |           |   |               |           |
| 4                                                                                   | Noise Figure       | 1.1<                                                                                                                                                                                                                                                                                      |           |           |    |               |           |   |               |           |   |               |           |
| 5                                                                                   | LNA Gain           | 31dB@25℃,1575.42MHz                                                                                                                                                                                                                                                                       |           |           |    |               |           |   |               |           |   |               |           |
| 6                                                                                   | VSWR               | 2.0 max                                                                                                                                                                                                                                                                                   |           |           |    |               |           |   |               |           |   |               |           |
| Material                                                                            |                    |                                                                                                                                                                                                                                                                                           |           |           |    |               |           |   |               |           |   |               |           |
| No                                                                                  | Part Name          | Spec                                                                                                                                                                                                                                                                                      |           |           |    |               |           |   |               |           |   |               |           |
| 1                                                                                   | Radome Material    | ABS                                                                                                                                                                                                                                                                                       |           |           |    |               |           |   |               |           |   |               |           |
| 2                                                                                   | Antenna            | Dielectric Ceramics                                                                                                                                                                                                                                                                       |           |           |    |               |           |   |               |           |   |               |           |
| 3                                                                                   | Ground             | 0.8mm, FR-4                                                                                                                                                                                                                                                                               |           |           |    |               |           |   |               |           |   |               |           |
| 4                                                                                   | Cable              | L=3m, RG-174                                                                                                                                                                                                                                                                              |           |           |    |               |           |   |               |           |   |               |           |
| 5                                                                                   | Connector          | SMA-J (Male)                                                                                                                                                                                                                                                                              |           |           |    |               |           |   |               |           |   |               |           |
| Environment Condition                                                               |                    |                                                                                                                                                                                                                                                                                           |           |           |    |               |           |   |               |           |   |               |           |
| 1                                                                                   | Working Temp       | -40℃～+85℃, 10%～95% RH                                                                                                                                                                                                                                                                     |           |           |    |               |           |   |               |           |   |               |           |
| 2                                                                                   | Storage Temp       | -45℃～+90℃, 10%～95% RH                                                                                                                                                                                                                                                                     |           |           |    |               |           |   |               |           |   |               |           |
| 3                                                                                   | Ingress Protection | IP67                                                                                                                                                                                                                                                                                      |           |           |    |               |           |   |               |           |   |               |           |
| Dimensions                                                                          |                    | LNA Gain @3.0V                                                                                                                                                                                                                                                                            |           |           |    |               |           |   |               |           |   |               |           |
|  |                    |  <table><tr><td>&gt;1</td><td>1.5754200 GHz</td><td>30.963 dB</td></tr><tr><td>2</td><td>1.5569950 GHz</td><td>30.634 dB</td></tr><tr><td>3</td><td>1.5906035 GHz</td><td>30.486 dB</td></tr></table> |           |           | >1 | 1.5754200 GHz | 30.963 dB | 2 | 1.5569950 GHz | 30.634 dB | 3 | 1.5906035 GHz | 30.486 dB |
| >1                                                                                  | 1.5754200 GHz      | 30.963 dB                                                                                                                                                                                                                                                                                 |           |           |    |               |           |   |               |           |   |               |           |
| 2                                                                                   | 1.5569950 GHz      | 30.634 dB                                                                                                                                                                                                                                                                                 |           |           |    |               |           |   |               |           |   |               |           |
| 3                                                                                   | 1.5906035 GHz      | 30.486 dB                                                                                                                                                                                                                                                                                 |           |           |    |               |           |   |               |           |   |               |           |