



GCP-160SPA-915

Antenne ISM (905-935 MHz)

- Dimensions : 160mm x 160mm x 1.6mm
- Gain : 0 dBi
- Câble et connecteurs sur mesure à la demande



SKU: GCP-160SPa-915



Specifications

Electrical Specifications

| | |
|------------------------|-------------|
| Frequency range | 905-935 MHz |
| Peak gain | 0dBi |
| VSWR | < 2:1 |
| Impedance | 50 Ohm |
| Polarization | RHCP |

- The specifications are estimated with SMA connector.
- The specifications are subject to be changed depending on application, connector, cable type & length, housing.

Mechanical specifications

| | |
|-----------------------|--|
| Material | FR4 |
| PCB dimensions | 160 x 160 x 1.6 (T) mm |
| Connector type | On request (U.FL, MMCX, MCX, SMA etc.) |
| Cable type | On request (1.13mm or 1.3mm diameter coaxial cable, RG174, etc.) |
| Cable length | On request |

Antenna Element

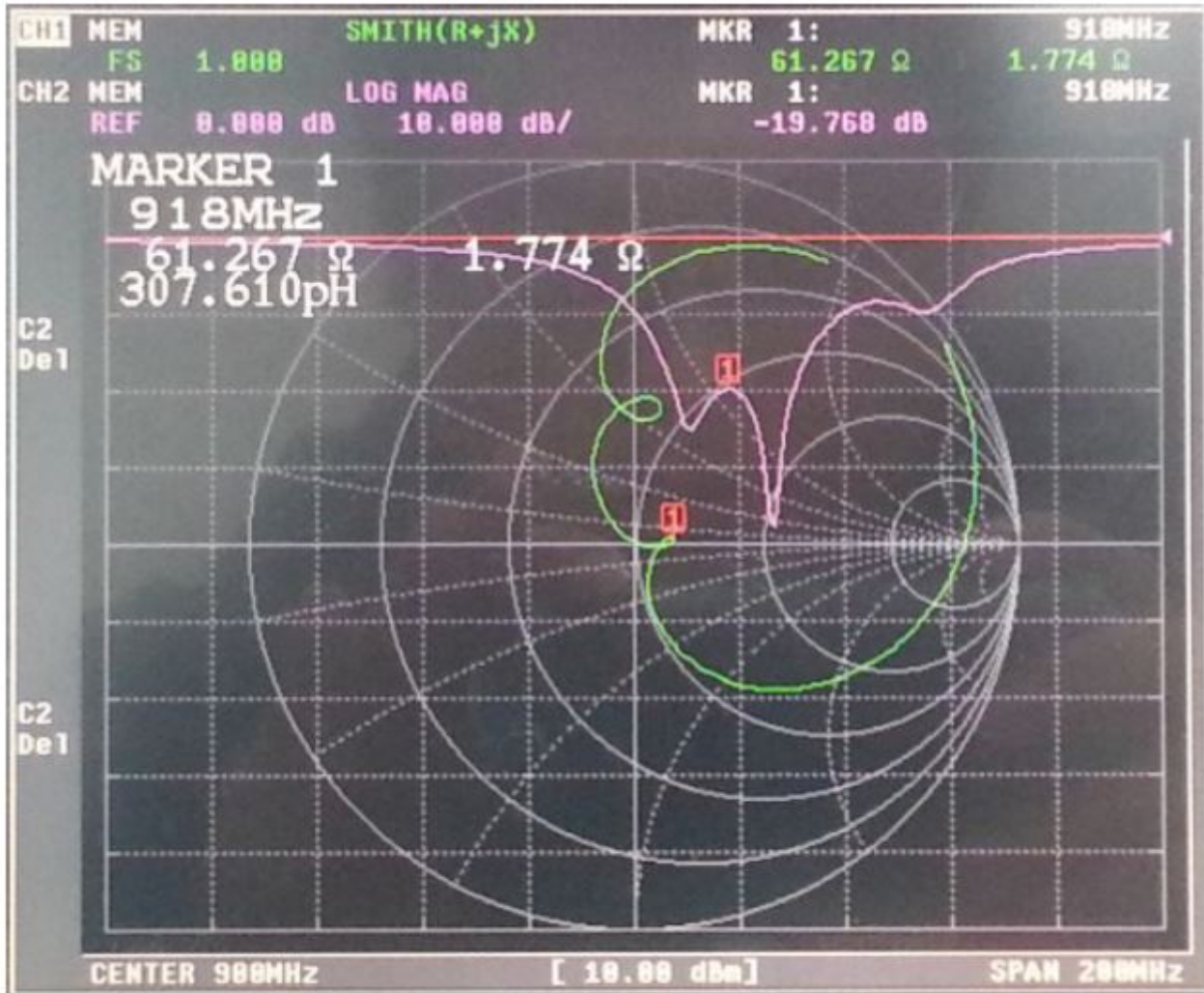


Antenna Assembly (reference)



Frequency Characteristics

S11 Measured with a SMA connector



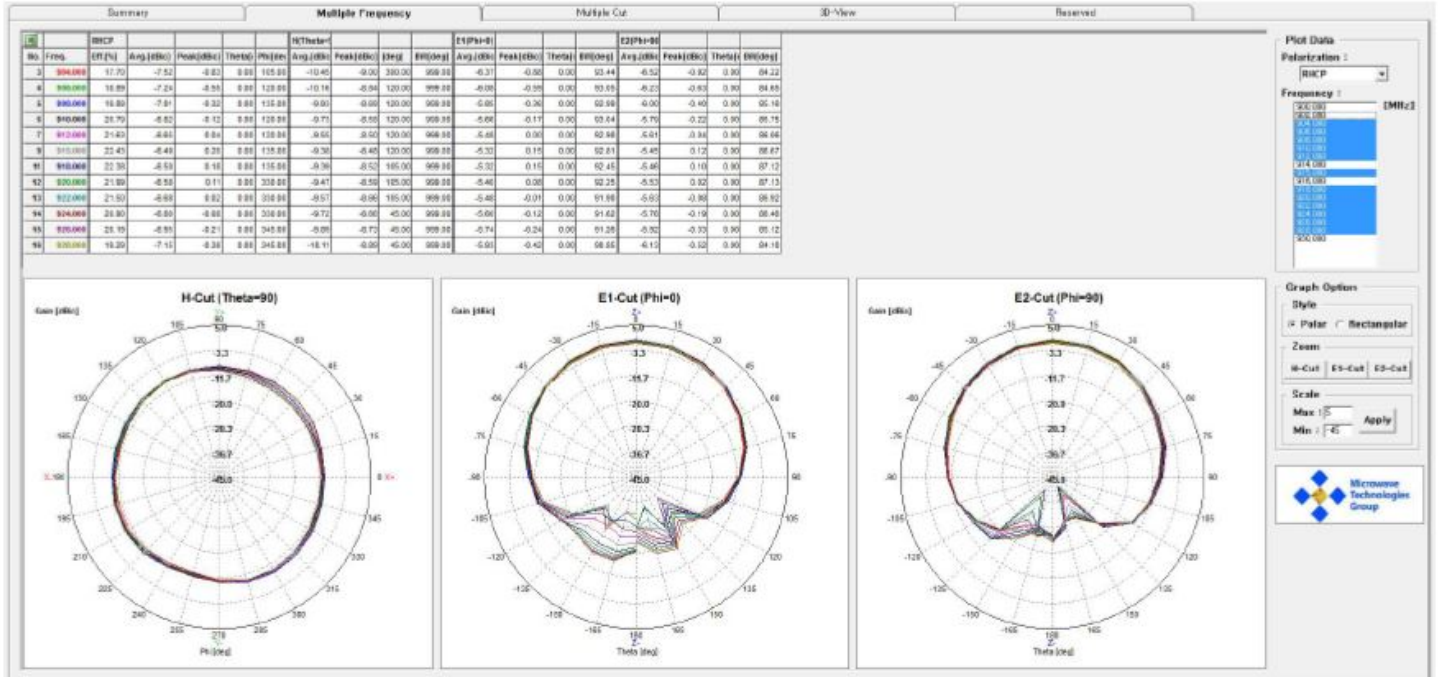
Measured with SMA connector

Radiation Patterns

Measured with SMA connector at 915MHz



Measurement results with a SMA connector at 904/906/908/910/912/915/918/920/922/924/926/928 MHz.



Summary of 3D Measurement Results

| No. | Freq.(MHz) | RHCP | | | | | (-) A.R. |
|-----|------------|---------|-----------|----------|------------|----------|----------|
| | | Eff.(%) | Av.(dBic) | Pk.(dBi) | Theta(deg) | Phi(deg) | Peak(dB) |
| 1 | 900 | 15.35 | -8.14 | -1.48 | 0 | 105 | -9.94 |
| 2 | 902 | 16.45 | -7.84 | -1.16 | 0 | 105 | -8.86 |
| 3 | 904 | 17.70 | -7.52 | -0.83 | 0 | 105 | -7.71 |
| 4 | 906 | 18.89 | -7.24 | -0.55 | 0 | 120 | -6.80 |
| 5 | 908 | 19.89 | -7.01 | -0.32 | 0 | 135 | -5.74 |
| 6 | 910 | 20.79 | -6.82 | -0.12 | 0 | 120 | -4.05 |
| 7 | 912 | 21.63 | -6.65 | 0.04 | 0 | 120 | -2.62 |
| 8 | 914 | 22.26 | -6.53 | 0.16 | 0 | 135 | -1.44 |
| 9 | 915 | 22.43 | -6.49 | 0.20 | 0 | 135 | -0.75 |
| 10 | 916 | 22.51 | -6.48 | 0.21 | 0 | 135 | -0.33 |
| 11 | 918 | 22.38 | -6.50 | 0.18 | 0 | 135 | -1.57 |
| 12 | 920 | 21.99 | -6.58 | 0.11 | 0 | 330 | -3.08 |
| 13 | 922 | 21.50 | -6.68 | 0.02 | 0 | 330 | -4.46 |
| 14 | 924 | 20.90 | -6.80 | -0.08 | 0 | 330 | -5.77 |
| 15 | 926 | 20.19 | -6.95 | -0.21 | 0 | 345 | -6.90 |
| 16 | 928 | 19.29 | -7.15 | -0.38 | 0 | 345 | -8.06 |
| 17 | 930 | 18.17 | -7.41 | -0.62 | 0 | 345 | -9.11 |