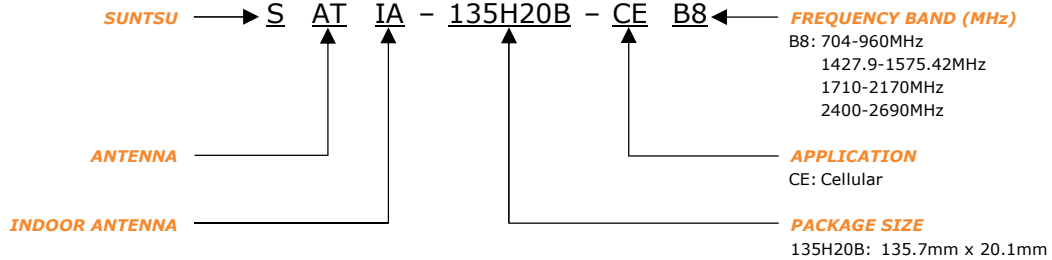


| FEATURES                                                                                                                                                                                                    | APPLICATIONS                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- LTE/4G</li> <li>- Indoor Antenna</li> <li>- 50 Ohm Impedance</li> <li>- 704-960, 1427.9-1575.42, 1710-2170 &amp; 2400-2690MHz</li> <li>- Omni Radiation</li> </ul> | <ul style="list-style-type: none"> <li>- LTE/4G Modem</li> <li>- Automotive Sensors</li> <li>- Smart Devices</li> <li>- Machine To Machine Wireless Communication</li> <li>- Mobile Systems</li> </ul> |



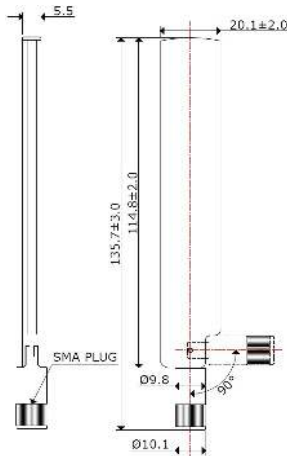
### PART NUMBERING GUIDE



| ELECTRICAL PARAMETERS (At 25°C) | UNITS | MIN.   | TYP.     | MAX     | REMARKS             |
|---------------------------------|-------|--------|----------|---------|---------------------|
| Frequency Band                  | MHz   | 704    |          | 960     |                     |
| Impedance                       | Ω     |        | 50       |         |                     |
| Polarization                    |       |        | Vertical |         |                     |
| Peak Gain                       | dBi   |        | 2.1      |         | At 832MHz           |
| Efficiency                      | %     |        | 54       |         | At 832MHz           |
| VSWR                            |       |        |          | 3       | At Center Frequency |
| Operating Temperature           | °C    | -20    |          | 65      |                     |
| Frequency Band                  | MHz   | 1427.9 |          | 1575.42 |                     |
| Impedance                       | Ω     |        | 50       |         |                     |
| Polarization                    |       |        | Vertical |         |                     |
| Peak Gain                       | dBi   |        | 2.6      |         | At 1500MHz          |
| Efficiency                      | %     |        | 63       |         | At 1500MHz          |
| VSWR                            |       |        |          | 3       | At Center Frequency |
| Operating Temperature           | °C    | -20    |          | 65      |                     |
| Frequency Band                  | MHz   | 1710   |          | 2170    |                     |
| Impedance                       | Ω     |        | 50       |         |                     |
| Polarization                    |       |        | Vertical |         |                     |
| Peak Gain                       | dBi   |        | 2.9      |         | At 1940MHz          |
| Efficiency                      | %     |        | 64       |         | At 1940MHz          |
| VSWR                            |       |        |          | 3       | At Center Frequency |
| Operating Temperature           | °C    | -20    |          | 65      |                     |
| Frequency Band                  | MHz   | 2400   |          | 2690    |                     |
| Impedance                       | Ω     |        | 50       |         |                     |
| Polarization                    |       |        | Vertical |         |                     |
| Peak Gain                       | dBi   |        | 2.8      |         | At 2500MHz          |
| Efficiency                      | %     |        | 65       |         | At 2500MHz          |
| VSWR                            |       |        |          | 3       | At Center Frequency |
| Operating Temperature           | °C    | -20    |          | 65      |                     |

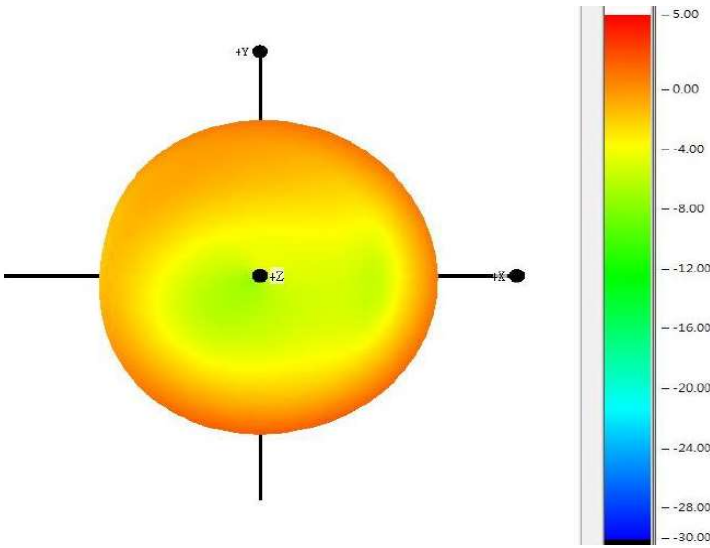
### OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)

| Item                | Material |
|---------------------|----------|
| Whip                | ABS      |
| Connector           | Brass    |
| Connector Insulator | Teflon   |

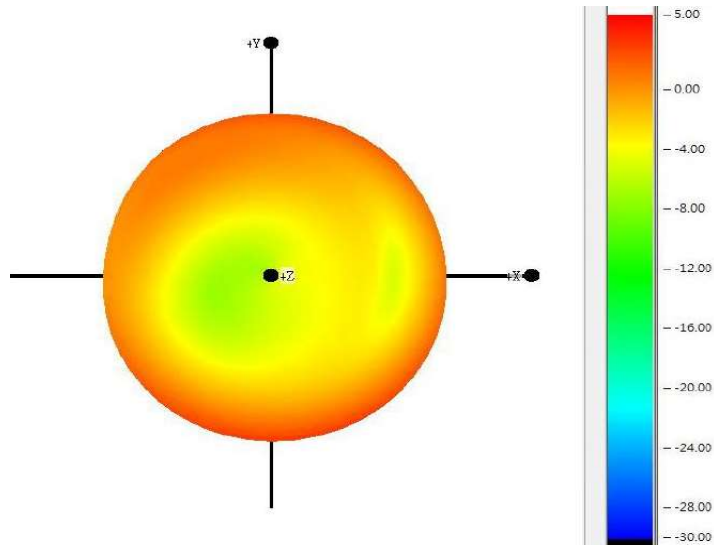


**3D RADIATION PATTERN (UNIT: dBi)**

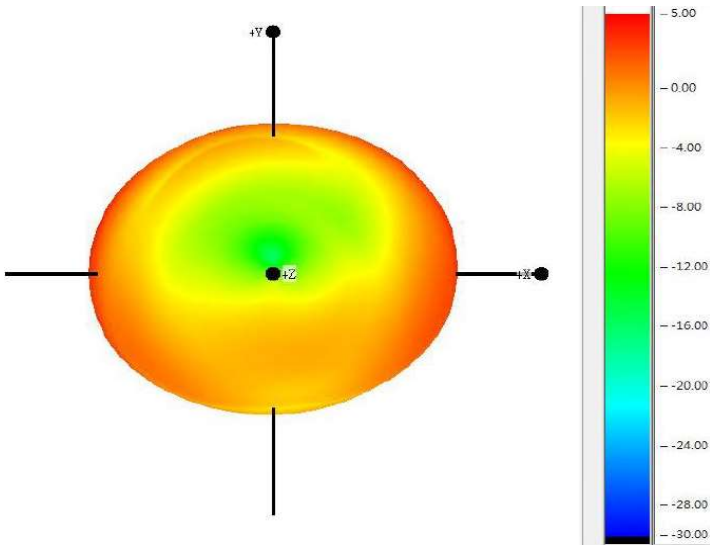
**704MHz**



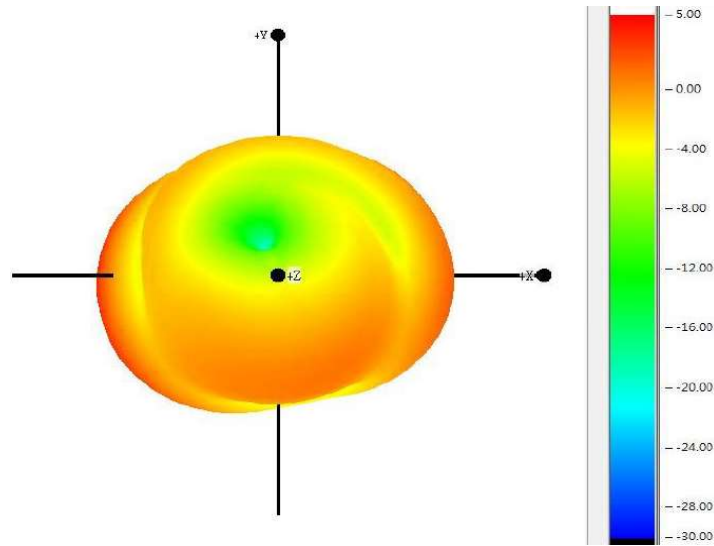
**960MHz**



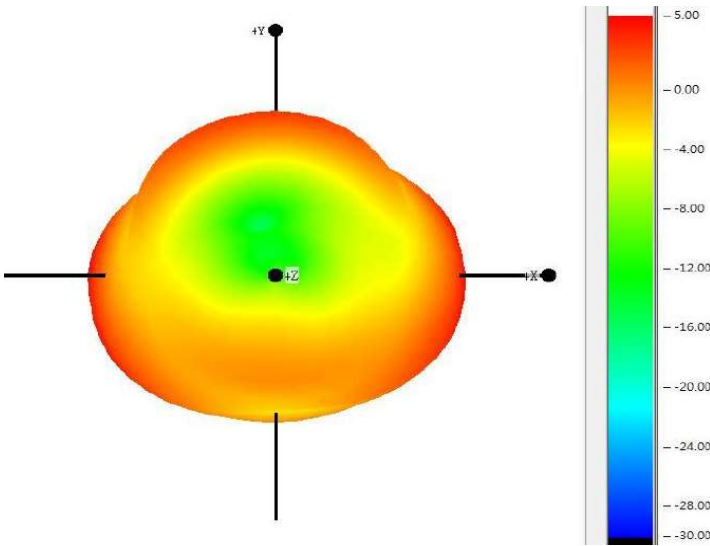
**1427.9MHz**



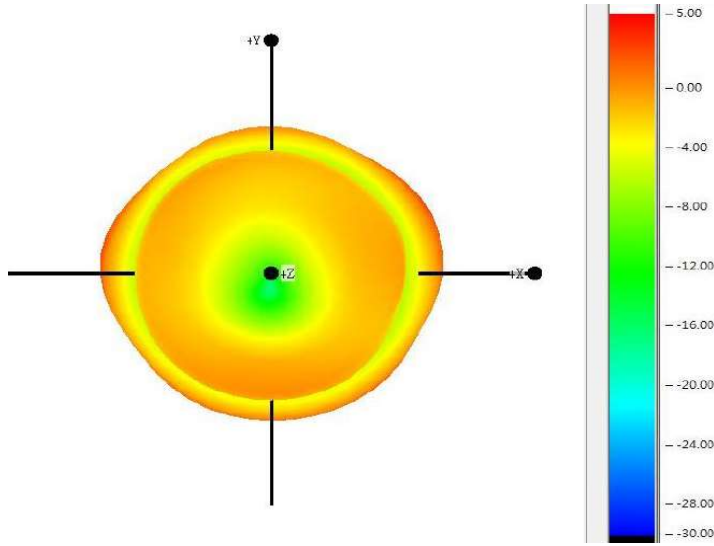
**1710MHz**



**2170MHz**

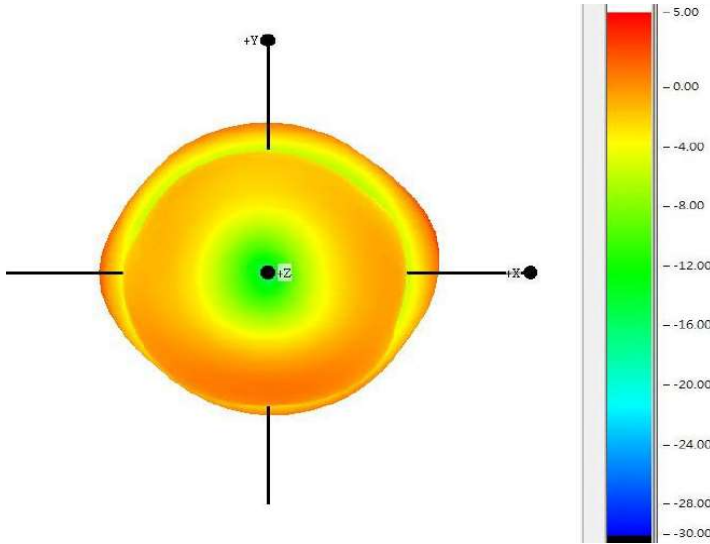


**2400MHz**

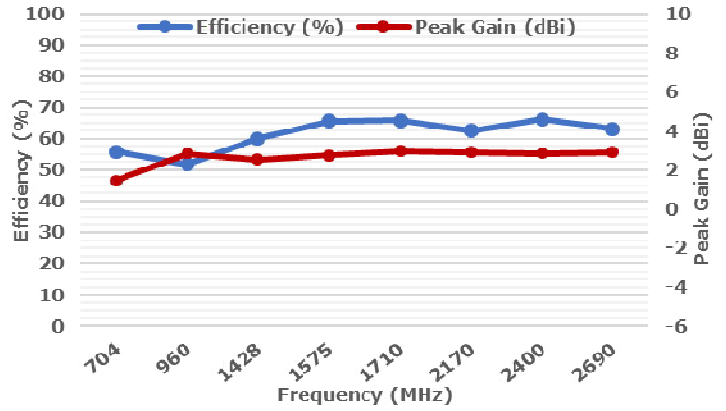


### 3D RADIATION PATTERN (UNIT: dBi)

2690MHz



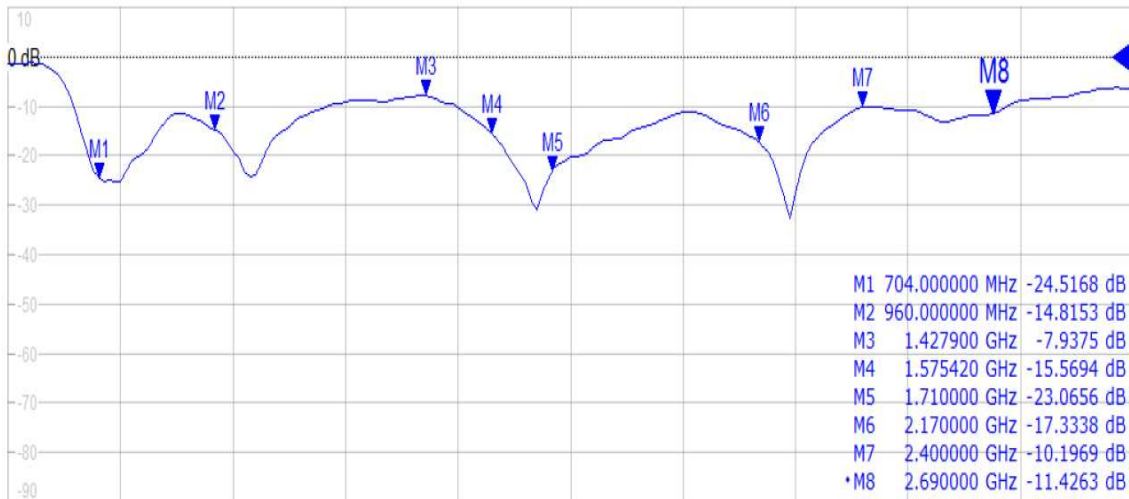
704-2690MHz



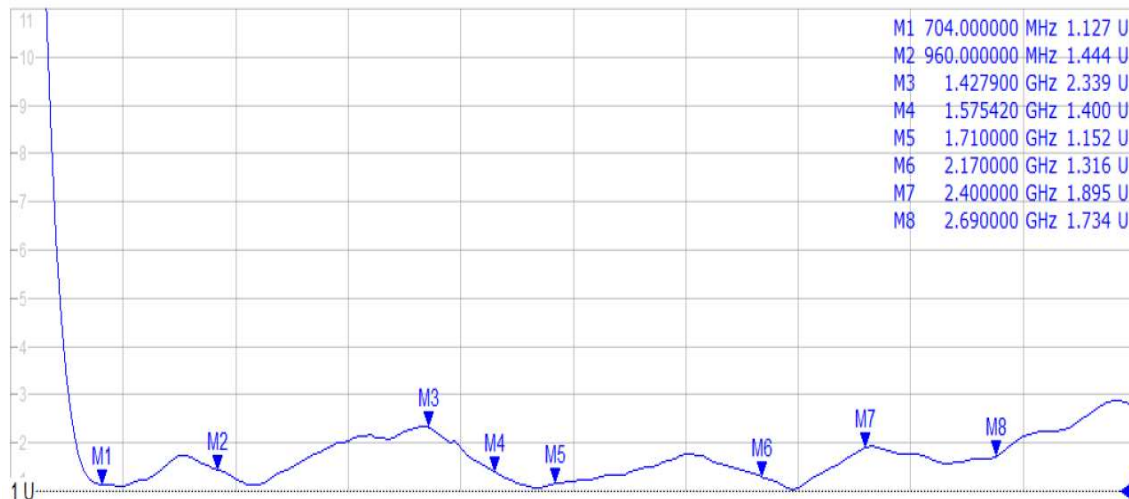
| Freq.    | 704  | 960  | 1428 | 1575 | 1710 | 2170 | 2400  | 2690  |
|----------|------|------|------|------|------|------|-------|-------|
| Eff. (%) | 55.9 | 51.8 | 60.1 | 65.6 | 65.8 | 62.6 | 66.13 | 63.18 |
| P.G.     | 1.45 | 2.85 | 2.52 | 2.74 | 2.97 | 2.91 | 2.85  | 2.89  |

### ELECTRICAL TEST

RETURN LOSS Trc1 — S22 dB Mag 10 dB/ Ref 0 dB Cal int



VSWR Trc2 — S22 SWR 1 U/ Ref 1 U Cal int



**ENVIRONMENTAL & MECHANICAL SPECIFICATIONS**

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| High Temperature Test | 70°C for 48 hours, and then to normal temperature/humidity for 24hours.                                            |
| Low Temperature Test  | -20°C for 48 hours, and then to normal temperature/humidity for 24hours.                                           |
| Humidity Test         | 65°C / 90%RH for 48 hours, and then to normal temperature/humidity for 24hours.                                    |
| Thermal Shock Test    | -20°C for 30 min and +70°C for 30 min. 48 cycles, then expose to normal temperature/humidity for 24 hours or more. |