



LTE ANTENNA

LTE/GNSS Antenna R47H, 2x SMA(m),
2x 0.3m RG174

AO-AKOM-R47HSS03

SECTRON company offers a wide portfolio of LTE antennas with various versions differing in shape, level of gain and manner of attachment. SECTRON guarantees a compatible connection between an antenna and all antenna adaptors produced by SECTRON.



BENEFITS

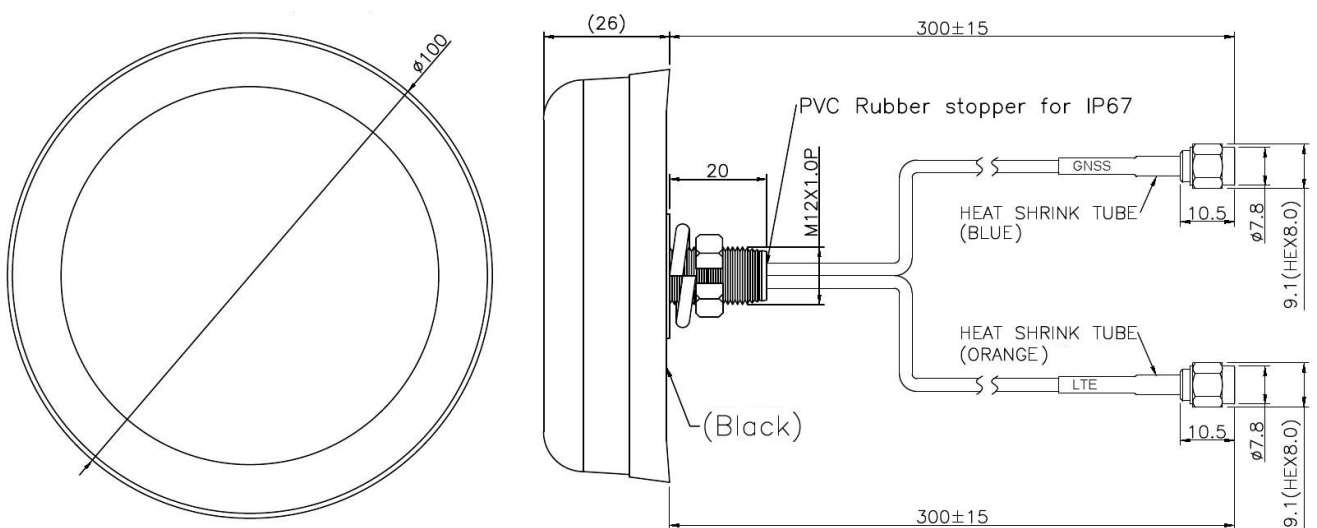
- Omnidirectional
- Easy installation

FEATURES

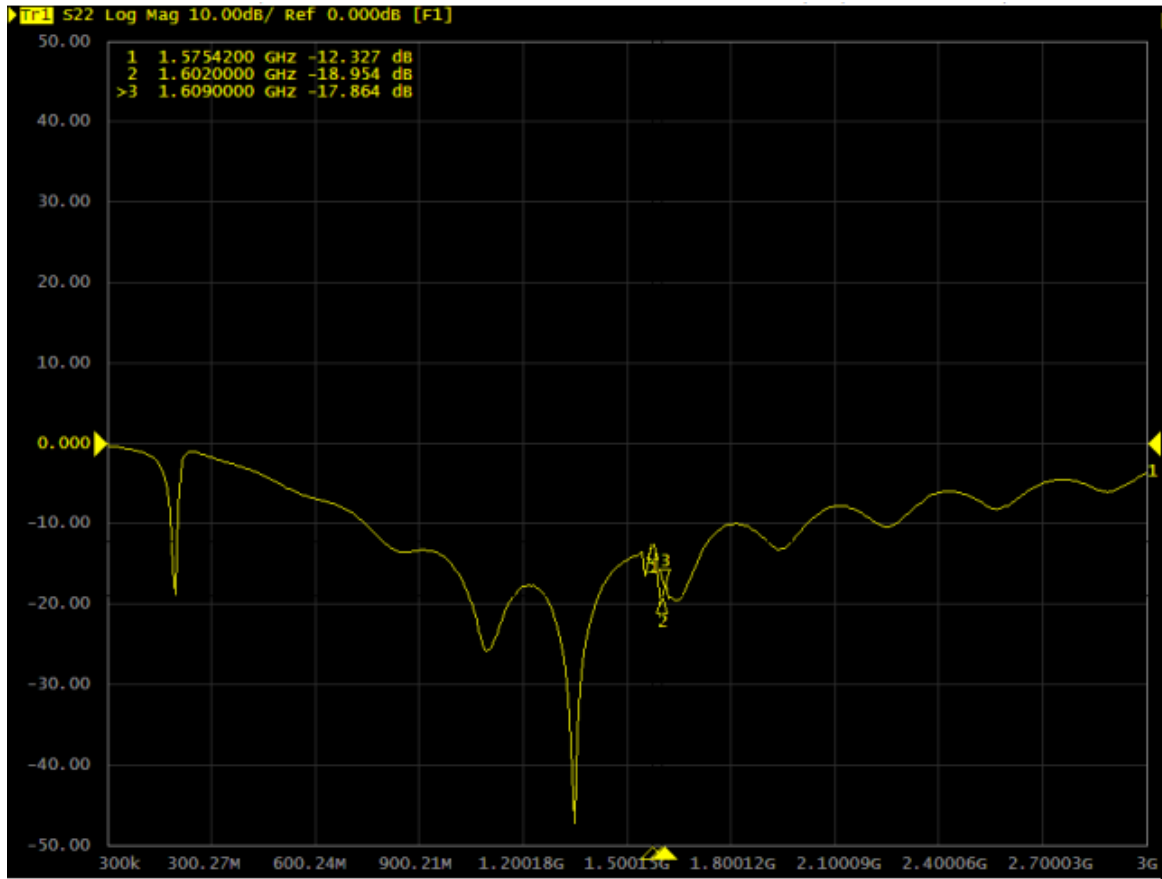
AO-AKOM-R47HSS03

| | |
|-----------------------|---|
| Technology | GNSS/LTE |
| Frequency bands | 1575.42/1602,700/800/900/1800/2100/2600 MHz |
| Bandwidth | 10 MHz |
| Gain | 4 dBi |
| LNA Gain | 30 dB |
| VSWR | <2.0:1 |
| Impedance | 50 Ohm |
| Directivity | Omnidirectional |
| Beam angle | Via attached graph |
| Polarization | RHCP, Linear |
| Maximum input power | 10 W |
| Dimensions | Ø 100 x 46 mm |
| Weight | 199.10 g |
| Operating temperature | -40 +80 °C |
| Execution | Internal |
| Method of attachment | Screw Mount |
| Cable type | RG174/U |
| The cable length | 300 mm |
| Connector type | 2x SMA(m) |

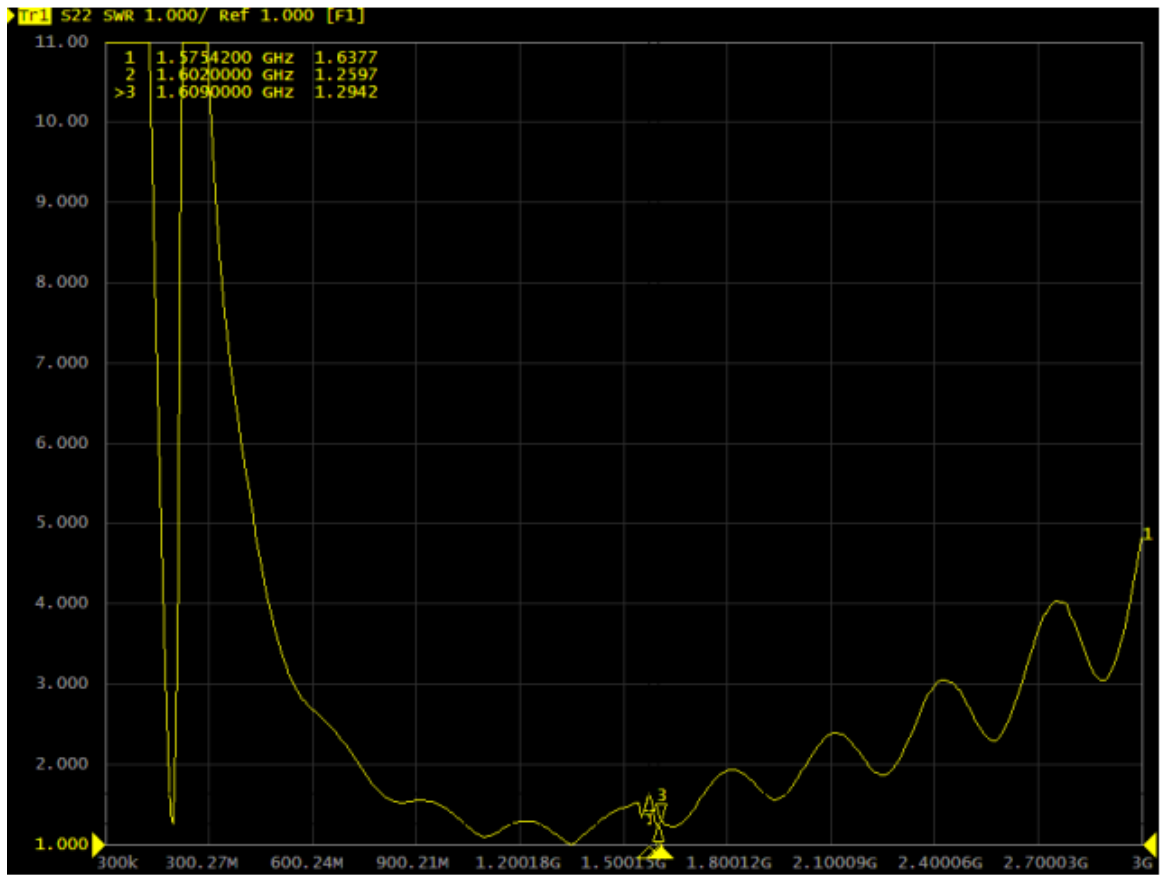
DRAWING



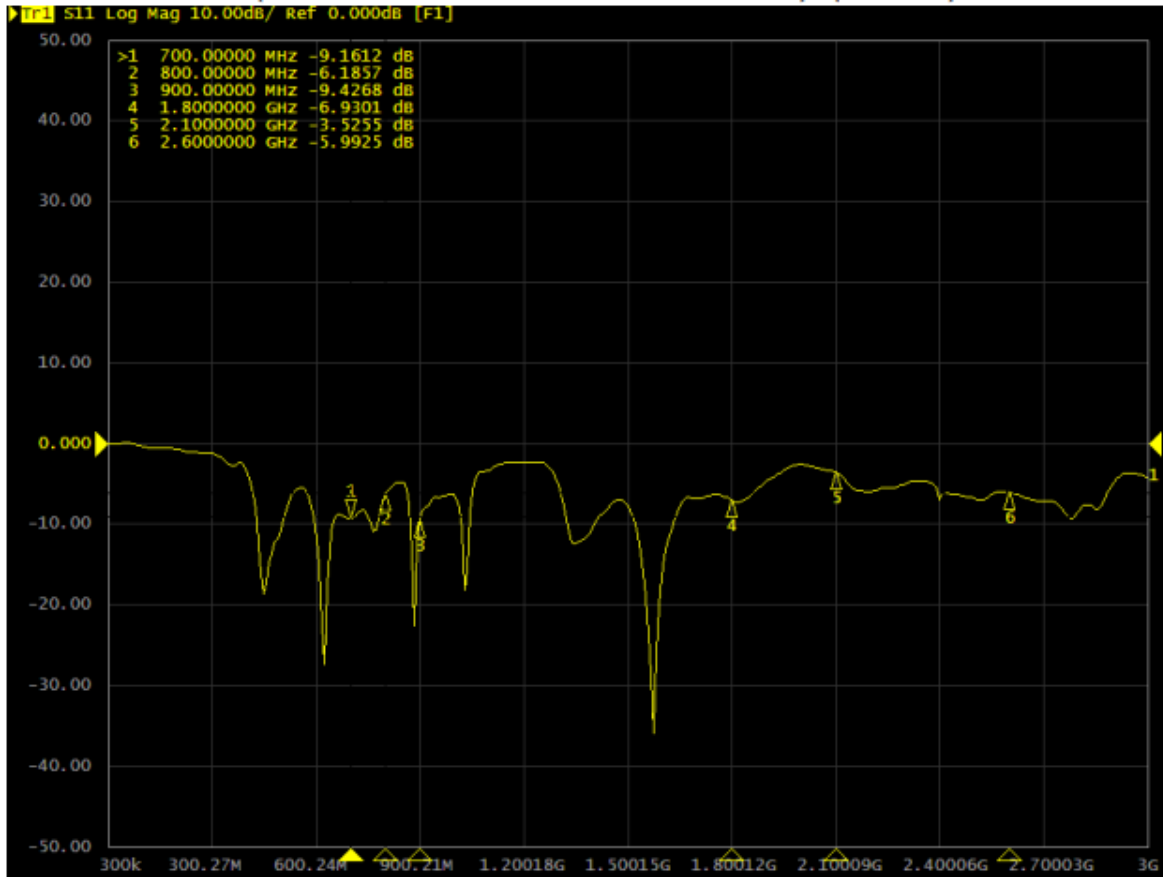
GNSS S_{11} - Return Loss [dB]



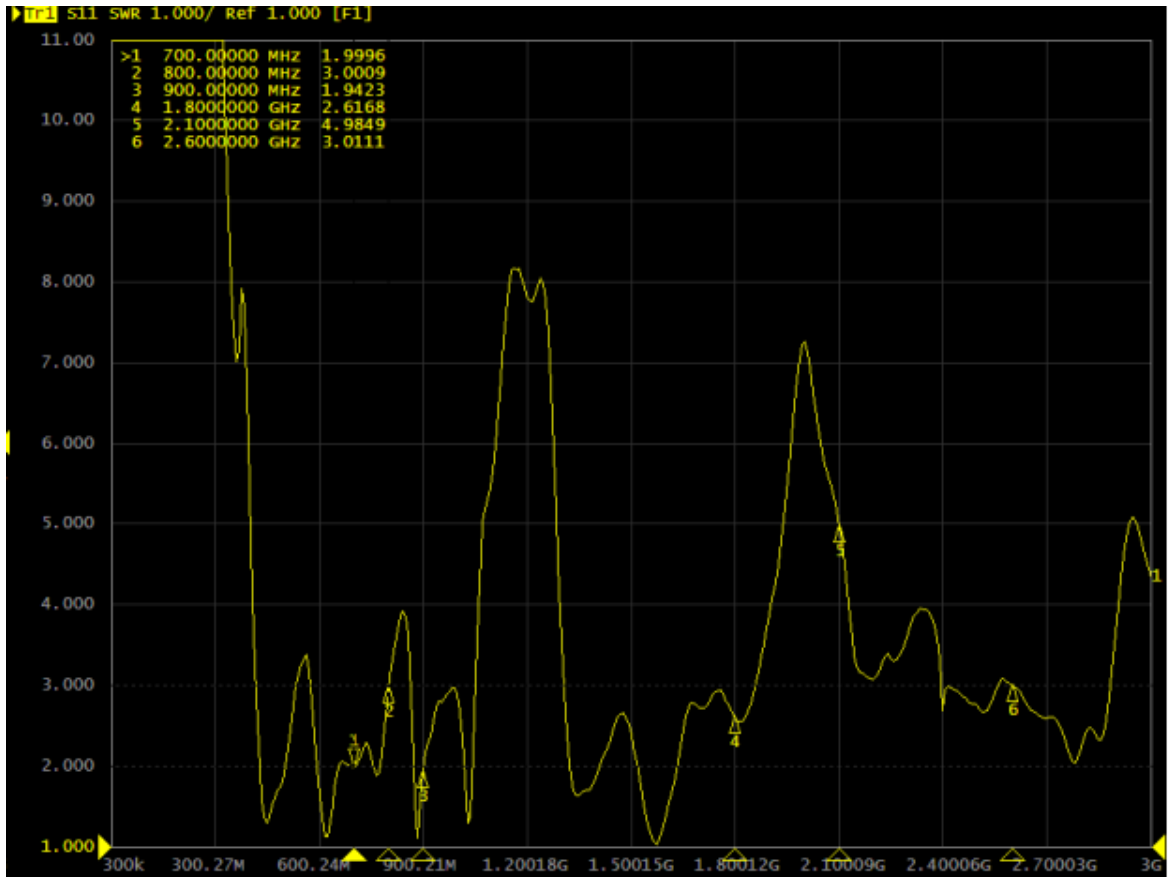
GNSS VSWR – Voltage standing wave ratio [-]



LTE S_{11} - Return Loss [dB]

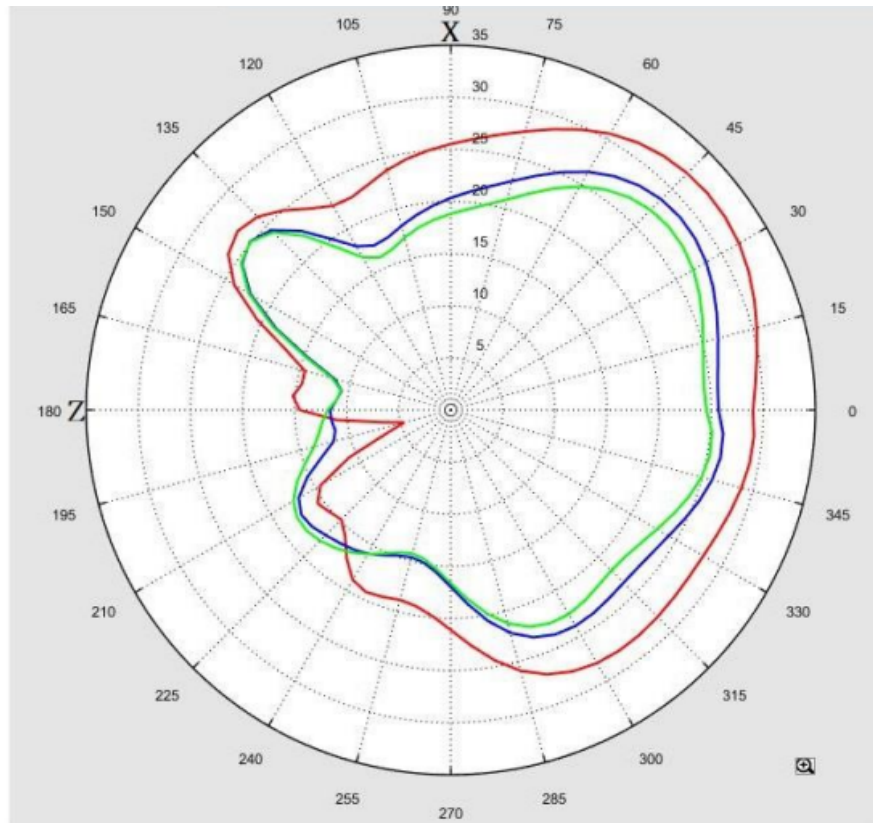


LTE VSWR – Voltage standing wave ratio [-]



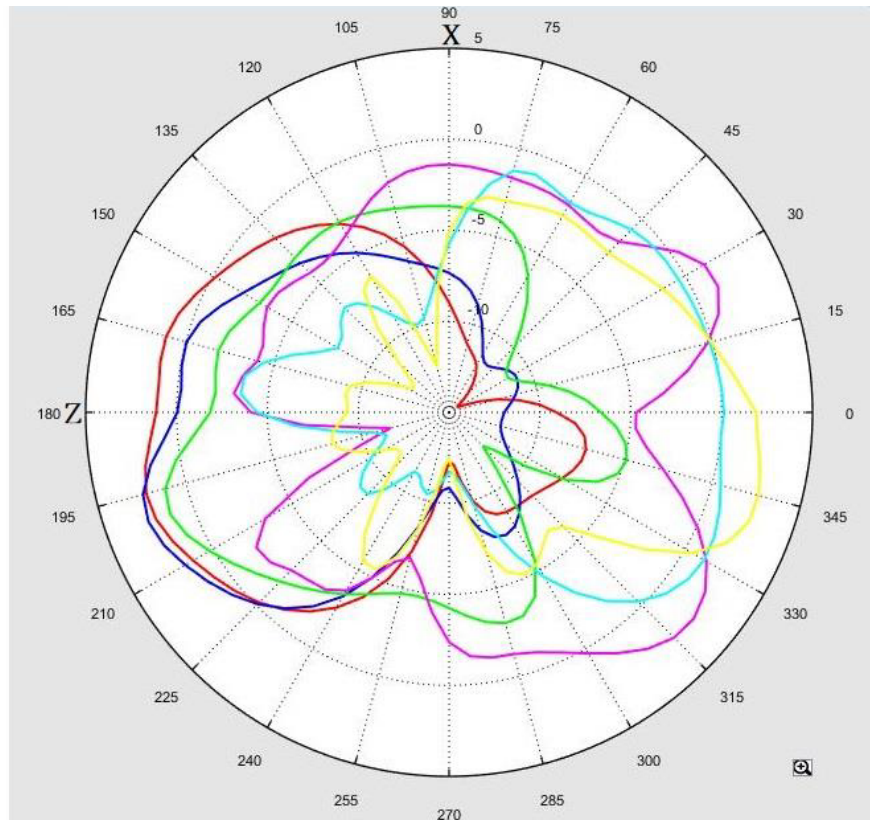
GNSS - 2D RADIATION PATTERN

| Freq. / Chan. | Color |
|---------------|-------|
| 1.57542GHz | Red |
| 1.602GHz | Blue |
| 1.609GHz | Green |



LTE - 2D RADIATION PATTERN

| Freq. / Chan. | Color |
|---------------|---------|
| 700MHz | Red |
| 800MHz | Blue |
| 900MHz | Green |
| 1.8GHz | Magenta |
| 2.1GHz | Cyan |
| 2.6GHz | Yellow |



| Frequency [MHz] | S_{11} [dB] | VSWR [-] | Gain [dBi] | Efficiency [%] |
|-----------------|---------------|----------|------------|----------------|
| 700 | -9.16 | 1.99 | 3.29 | 39.99 |
| 800 | -6.18 | 3.00 | 3.37 | 35.32 |
| 900 | -9.42 | 1.94 | 1.54 | 47.75 |
| 1575.42 | -12.32 | 1.63 | 32.79 | - |
| 1602 | -18.95 | 1.25 | 29.35 | - |
| 1609 | -17.86 | 1.29 | 28.35 | - |
| 1800 | -6.93 | 2.61 | 3.23 | 62.66 |
| 2100 | 3.52 | 4.98 | 1.88 | 41.11 |
| 2600 | -5.99 | 3.01 | 6.01 | 43.95 |

Different connector variants or cable lengths are available on request.

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