

# 5G ANTENNA

Antenna 5G Connector Mount FSMAK,  
90°/180°, 600-6000 MHz, 3 dBi, SMA(m)

BB-5GMAK

This high-performance antenna is designed for use with modems, terminals, and routers. It supports wideband operation across 600–6000 MHz, ensuring compatibility with current networks and readiness for upcoming 5G technology

The antenna is well-suited for M2M applications, IoT devices, and industrial IoT systems, including robotics and automation. It is supplied with an SMA (male) connector for easy integration.



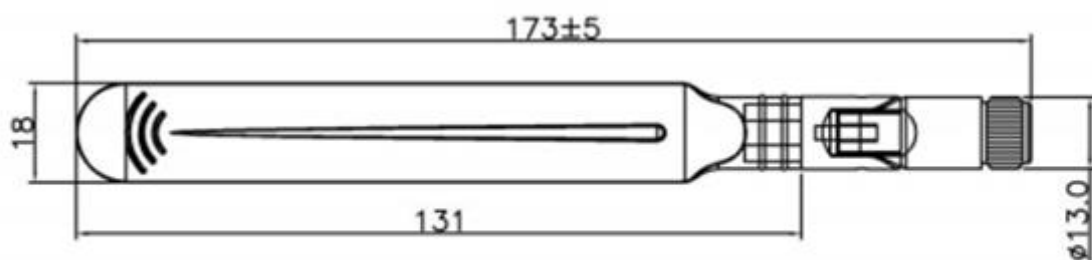
## BENEFITS

- Easy installation
- High frequency range
- Low VSWR on 5G frequencies

## FEATURES

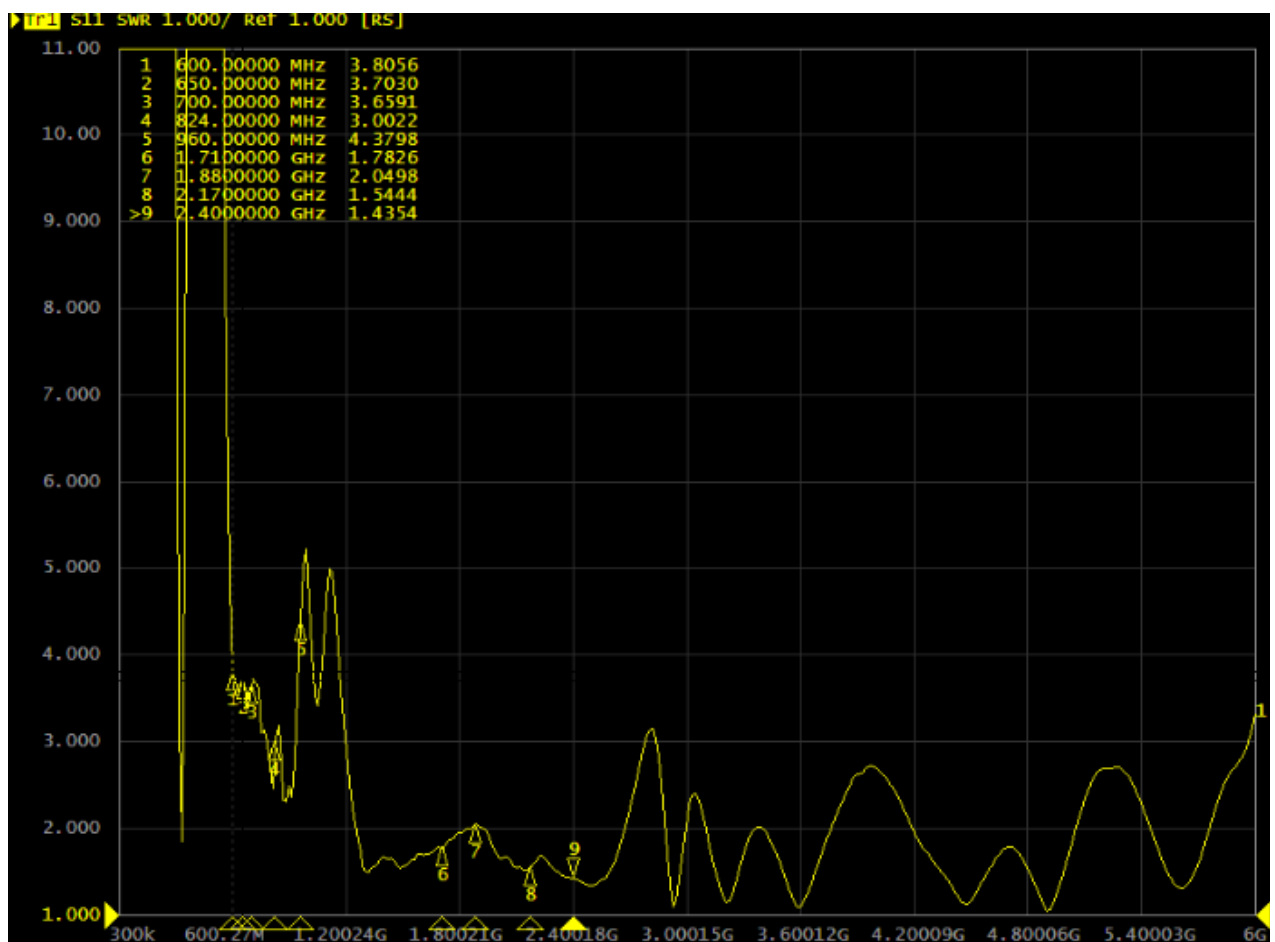
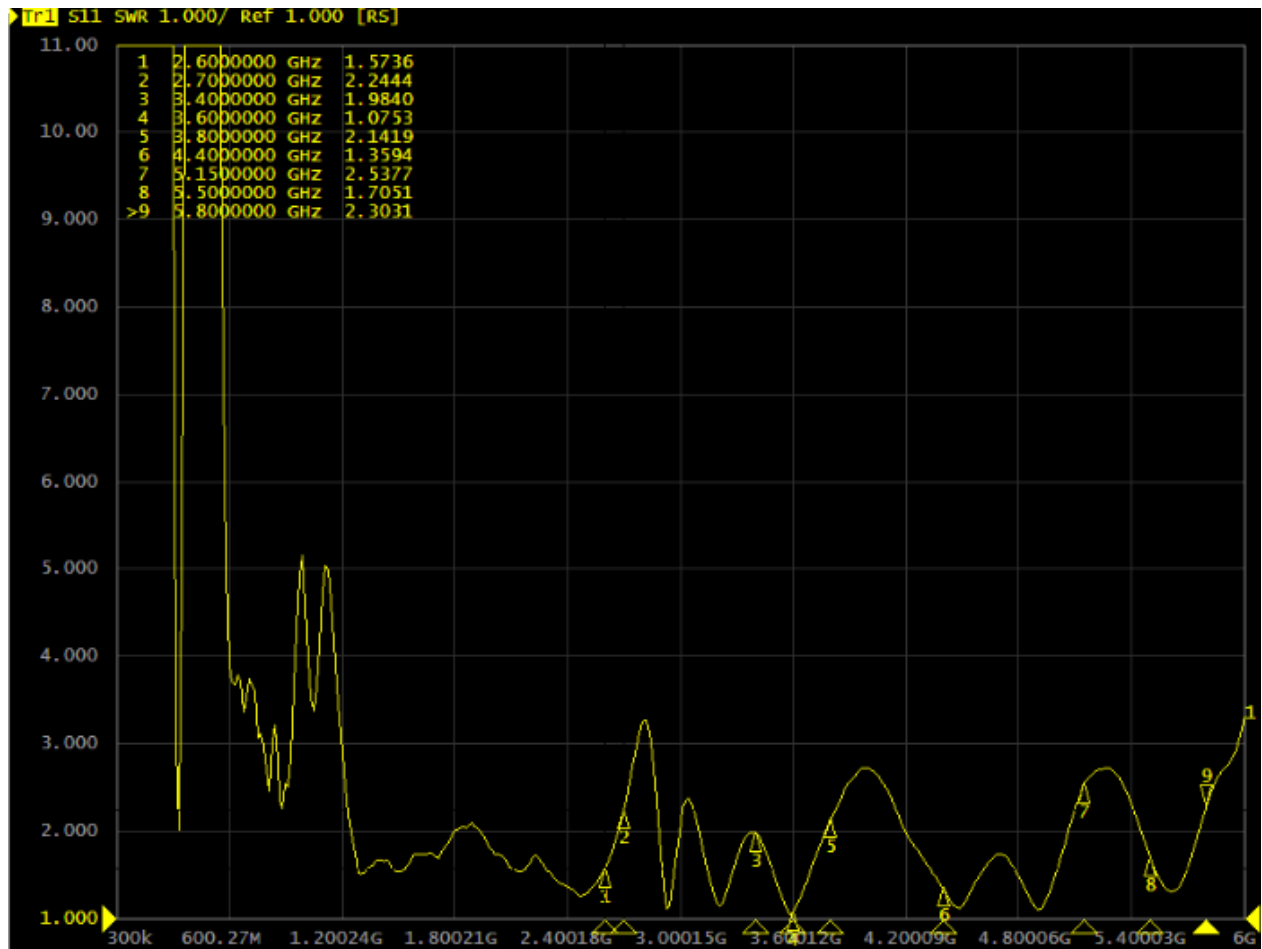
|                       |                  |
|-----------------------|------------------|
| Technology            | 5G               |
| Frequency bands       | 600-6000 MHz     |
| Bandwidth             | -                |
| Gain                  | 3.5 dBi          |
| VSWR                  | <2.5:1           |
| Impedance             | 50 Ohm           |
| Directivity           | Omni-directional |
| Beam angle            | -                |
| Polarization          | Linear           |
| Maximum input power   | 10 W             |
| Power voltage         | -                |
| Dimensions            | 18 x 173 mm      |
| Weight                | 21.48 g          |
| Operating temperature | -20 °C-+70 °C    |
| Execution             | External         |
| Method of attachment  | Connector Mount  |
| Cable type            | -                |
| The cable length      | -                |
| Connector type        | SMA(m)           |
| Certification         | RoHS             |

## DRAWING

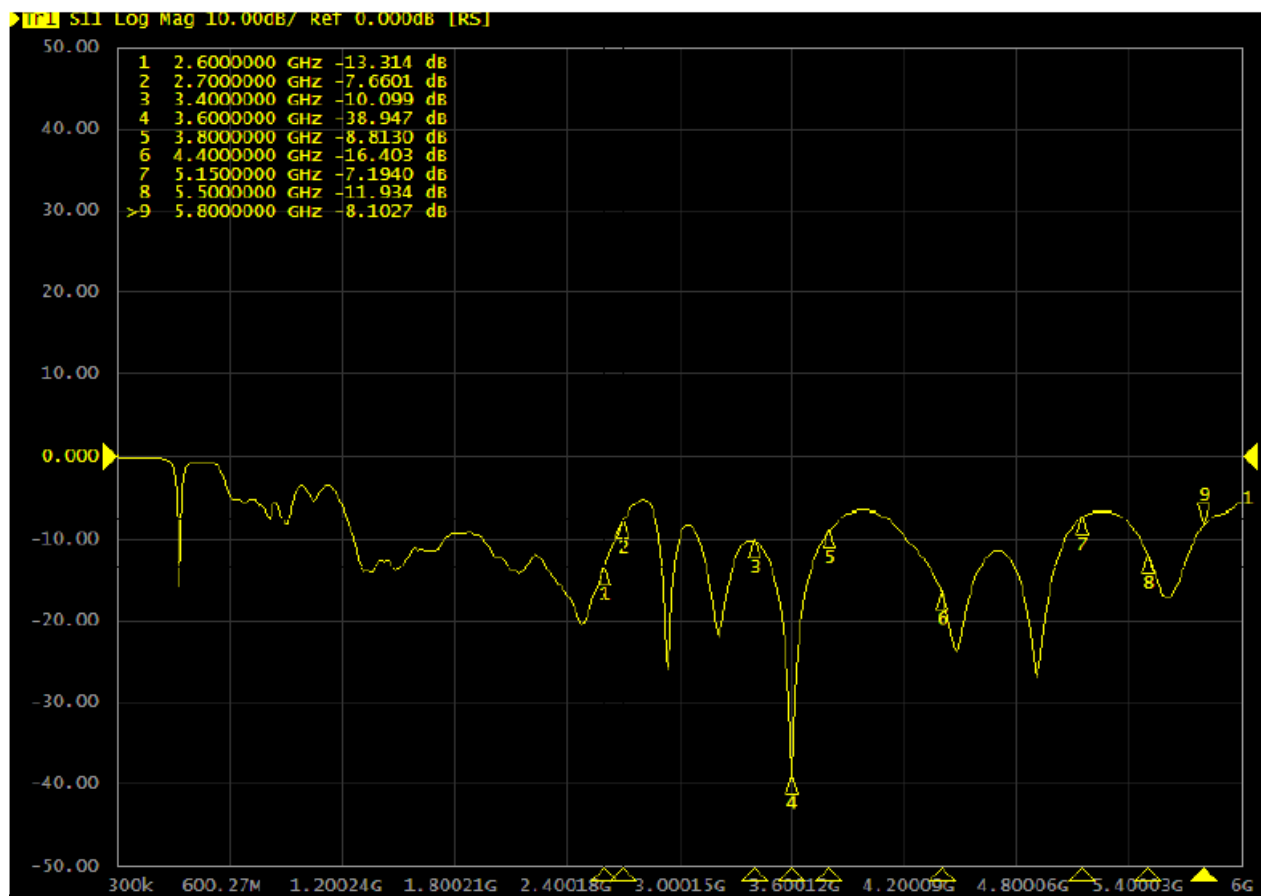
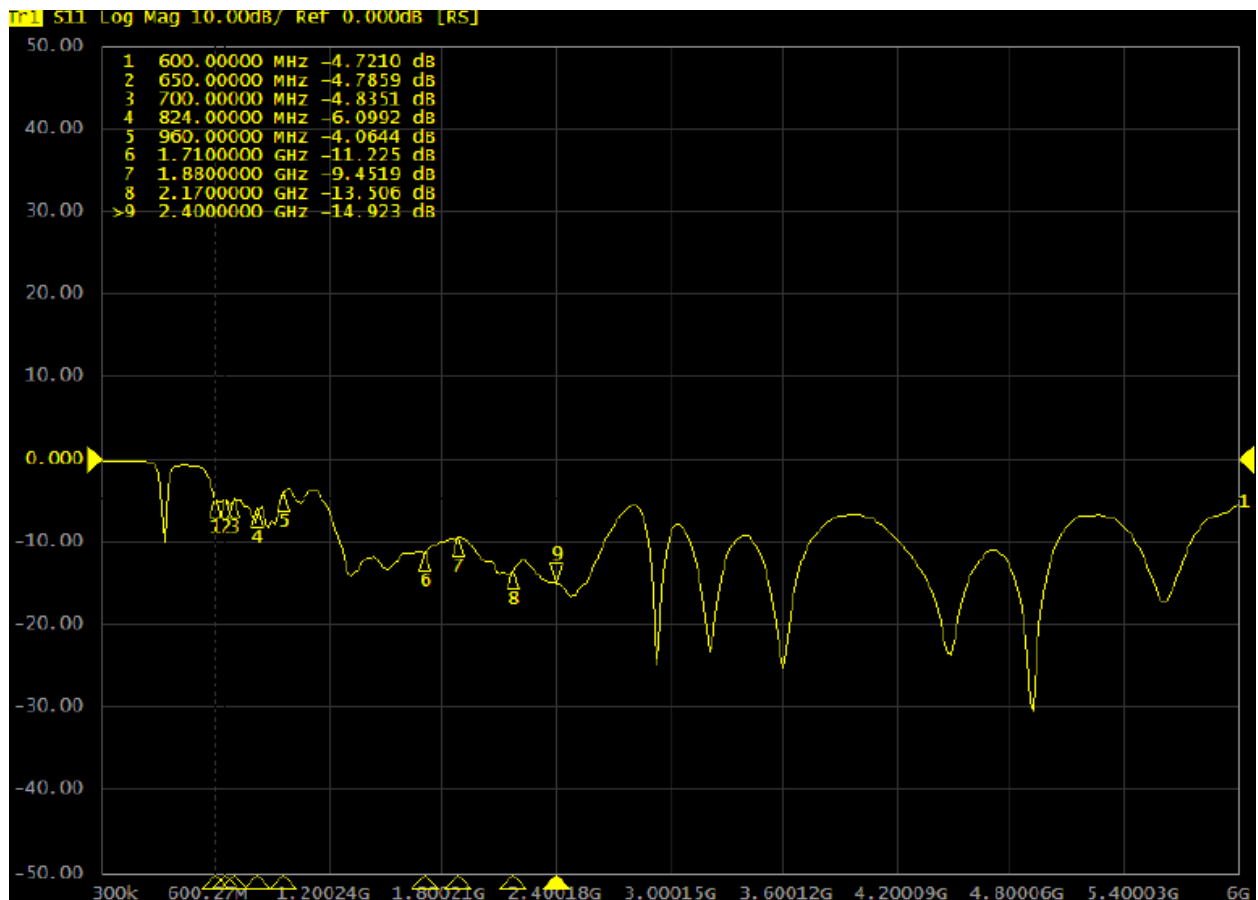


UNIT:mm

## VSWR – Standing wave ratio [-]



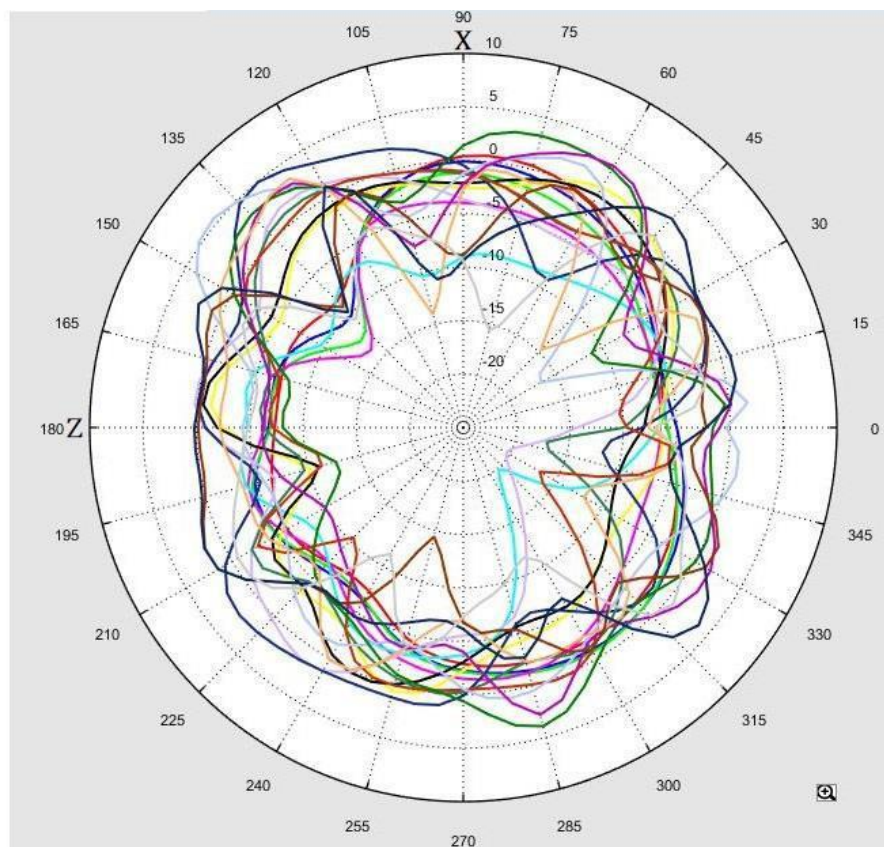
## S11 – Return loss [dB]



## SUMMARY

### 2D - Radiation pattern [-]

| Freq. / Chan. | Color        |
|---------------|--------------|
| 600MHz        | Red          |
| 650MHz        | Blue         |
| 700MHz        | Green        |
| 824MHz        | Magenta      |
| 960MHz        | Cyan         |
| 1.71GHz       | Yellow       |
| 1.88GHz       | Black        |
| 2.17GHz       | Purple       |
| 2.4GHz        | Dark Blue    |
| 2.6GHz        | Teal         |
| 2.7GHz        | Orange       |
| 3.4GHz        | Light Blue   |
| 3.6GHz        | Dark Green   |
| 3.8GHz        | Pink         |
| 4.4GHz        | Light Orange |
| 5.15GHz       | Brown        |
| 5.5GHz        | Dark Purple  |
| 5.8GHz        | Grey         |



| Frequency (MHz) | Return Loss (dB) | VSWR | Efficiency (%) | Gain (dBi) |
|-----------------|------------------|------|----------------|------------|
| 600             | -4.72            | 3.8  | 52.12          | 0.39       |
| 650             | -4.78            | 3.70 | 53.33          | -0.09      |
| 700             | -4.83            | 3.65 | 50.35          | -0.66      |
| 824             | -6.09            | 3.00 | 40.74          | -1.26      |
| 960             | -4.06            | 4.37 | 33.34          | -1.5       |
| 1710            | -11.22           | 1.78 | 61.38          | 1.88       |
| 1880            | -9.45            | 2.04 | 59.02          | 2.28       |
| 2170            | -13.50           | 1.54 | 51.88          | 3.05       |
| 2400            | -14.92           | 1.43 | 82.22          | 4.62       |
| 2600            | -13.31           | 1.57 | 52.84          | 0.86       |
| 2700            | -7.66            | 2.24 | 52.48          | 0.79       |
| 3400            | -10.09           | 1.98 | 74.3           | 4.94       |
| 3600            | -38.94           | 1.07 | 83.18          | 3.93       |
| 3800            | -8.81            | 2.14 | 68.55          | 3.24       |
| 4400            | -16.40           | 1.35 | 50.47          | 4.48       |
| 5150            | -7.19            | 2.53 | 42.17          | 2.69       |
| 5500            | -11.93           | 1.70 | 57.68          | 2.75       |
| 5800            | -8.10            | 2.30 | 34.28          | 2.01       |

## VARIANTS

Different connector variants or cable lengths are available on request.