

GSMQB2-006-E

ENGINEERING SPECIFICATION

1. Explanation of Part Number

G S M Q B 2 - 0 0 6 - E
| | | | |
(1) (2) (3) (4)

- (1): Series type, GSM&WCDMA Flat Antenna
- (2): QB2: 850 MHz,900MHz,1800MHz,1900MHz ,2170 MHz,2400MHz,2700MHz
Appearance 1, molding with black color
- (3): 006: RF Cable length & Connector tpy
- (4): E: Spare code

2. Appearance: (FOR 006)

Antenna Unit (with connector, and cable – refer to an attached drawing)

Connector: SMA PLUG (Gold plating) ; Cable: RG-174 3000mm

3. Specification:

3.1 Specification:

| Item | Specification |
|---|--|
| Frequency Range | 824~896 MHz (US-GSM,CDMA-2000) 880~960 MHz (GSM) 1710~1880MHz (DCS) 1850~1990MHz (PCS) 1920~2170 MHz(WCDMA) 2400~2500 MHz(WIFI) 1880~2700 MHz(TDD-LTE) |
| VSWR | 3.5 max. |
| Antenna gain (do not include the cable loss) | 2.0 dBi Max. |
| Polarization | Vertical |
| Impedance | 50 Ohm |
| Operating temperature | -25~+70°C |
| Storage temperature | -25~+70°C |
| Power handling | 10W Max |

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±



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SCALE : UNIT : mm

DRAWN BY: 林娟 CHECKED BY: 李志强

DESIGNED BY: 胡志清 APPROVED BY: 唐龙

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3.2 3D Gain.

3.2.1. Antenna Body

| Unit dBi | 3D Gain | | |
|----------------|---------|--------|-------|
| Frequency(MHz) | Max. | Min. | Ave. |
| 824 | 2.03 | -15.32 | -2.78 |
| 894 | 2.13 | -12.37 | -2.45 |
| 880 | 2.34 | -14.65 | -2.53 |
| 960 | 1.85 | -13.65 | -2.69 |
| 1710 | 2.78 | -4.21 | -1.56 |
| 1880 | 1.75 | -8.79 | -1.87 |
| 1850 | 1.94 | -7.23 | -2.05 |
| 1990 | 1.02 | -10.45 | -2.66 |
| 1920 | 0.54 | -7.12 | -2.53 |
| 2170 | 0.32 | -9.01 | -2.48 |
| 2300 | 1.49 | -9.77 | -3.03 |
| 2400 | 0.66 | -12.84 | -3.14 |
| 2570 | 1.16 | -11.7 | -3.22 |
| 2620 | 0.59 | -18.29 | -3.41 |

3.2.2. Cable Loss

| | | | |
|---------------------|----------|-------|------|
| 衰减常数 Attenuation | 1375 MHz | dB/3m | 4.74 |
| | 1575 MHz | dB/3m | 5.35 |
| | 1800 MHz | dB/3m | 6.87 |

UNLESS OTHER SPECIFIED TOLERANCES ON :
 $X = \pm$ $X.X = \pm$ $X.XX = \pm$
 ANGLES = \pm HOLEDIA = \pm



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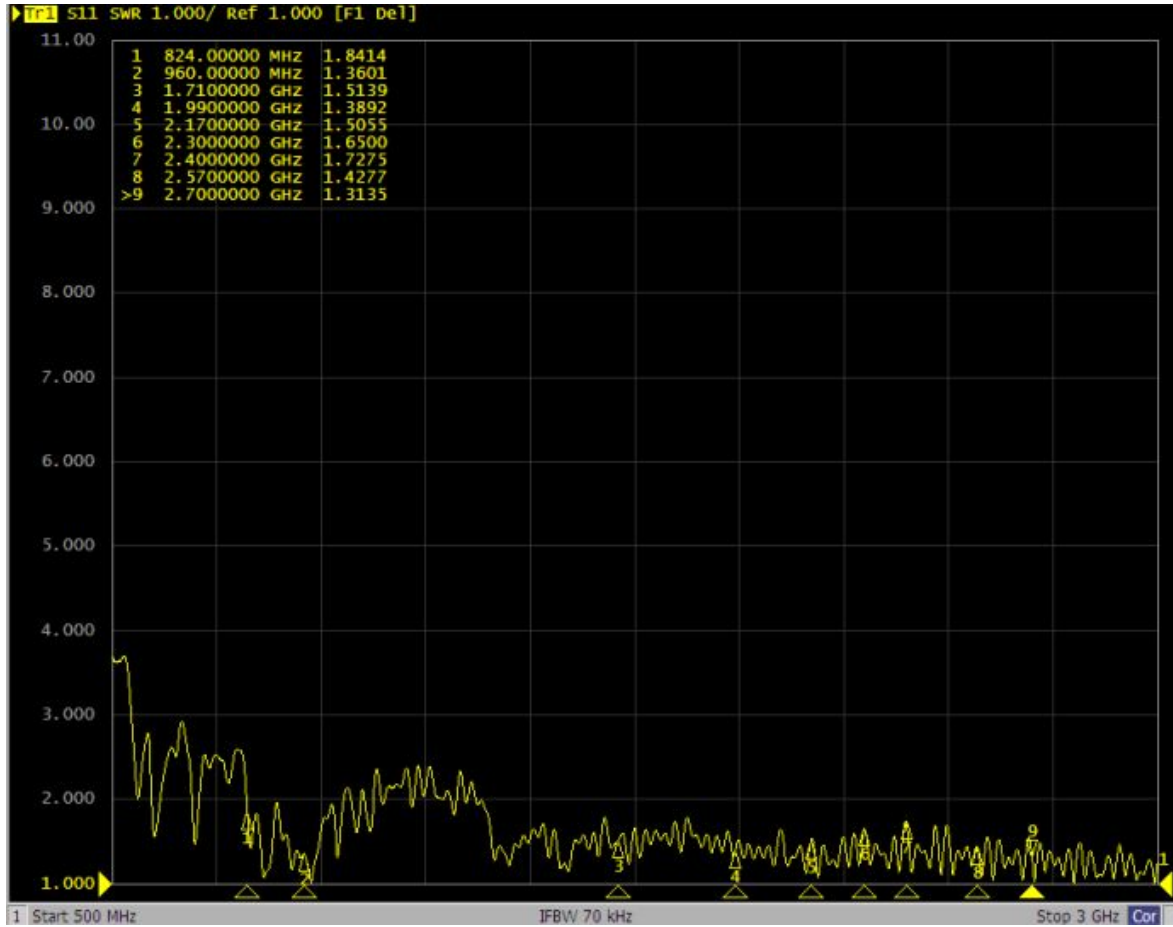
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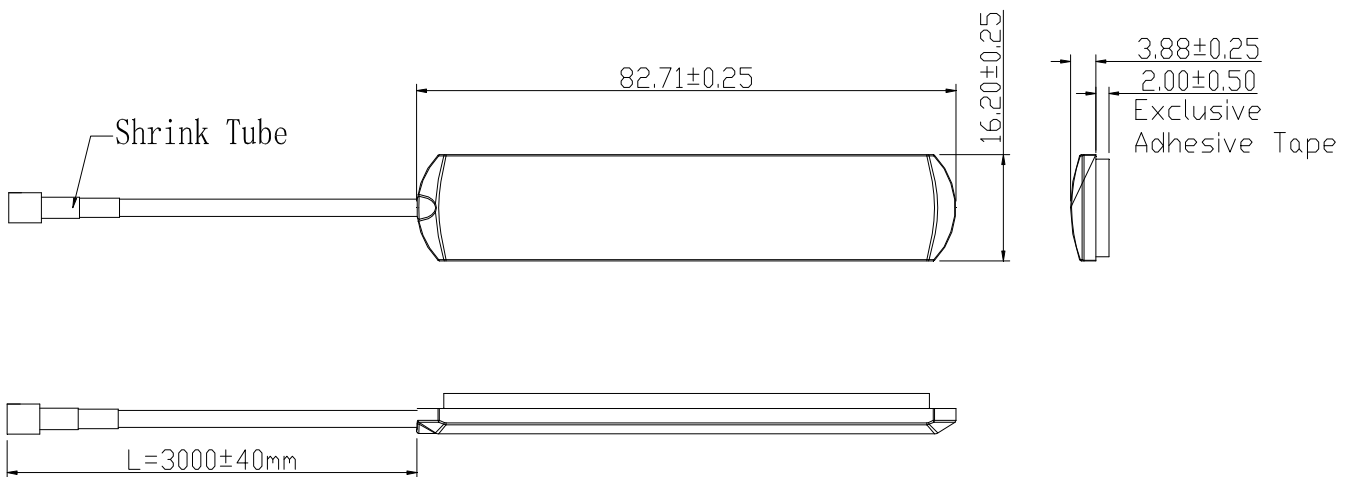
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3.3 Typical VSWR Value



4. Dimensions and Structure:



| | | | |
|---|-----------------|---|-----------------|
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5. Installation & Bonding:

5.1 Installation:

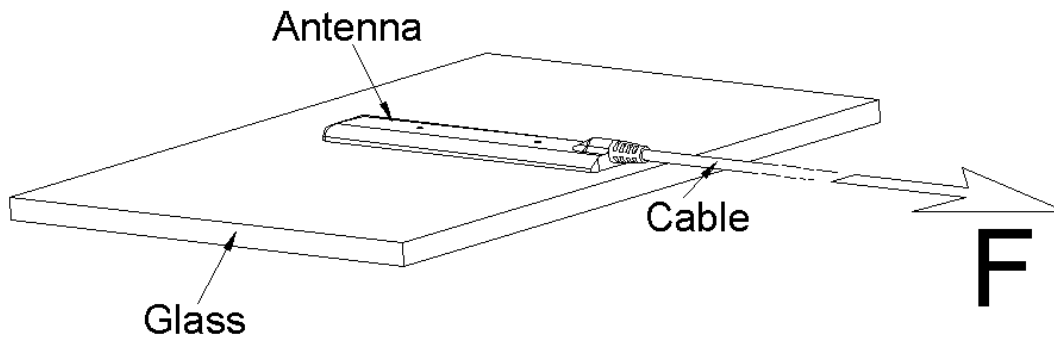
Install antenna on glass or plastic material with vertical and far from metallic frame approximate 50 mm.

5.2 Bonding Steps:


- a. Solvent Wipe.
- b. Wipe Dry.
- c. Stick antenna on glass or plastic material.
- d. Squeeze the surface.

5.3 Pull force test:

- a. Following 4.2. Installing step and test conditions:



- b. With 10 kgw pull force for 3 seconds; antenna drift less 5 mm and the structure of antenna is well.

| | | | |
|---|-----------------|---|-----------------|
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