

GSMQB2-065-A

1. Explanation of Part Number

GSM – QB2 – 065 – A
 (1) (2) (3) (4)

(1) Series type, GSM&WCDMA Flat Antenna

(2): QB2: 850 MHz,900MHz,1800MHz,1900MHz ,2170 MHz

Appearance 1, molding with black color

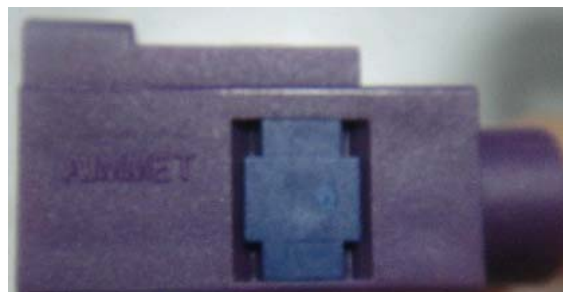
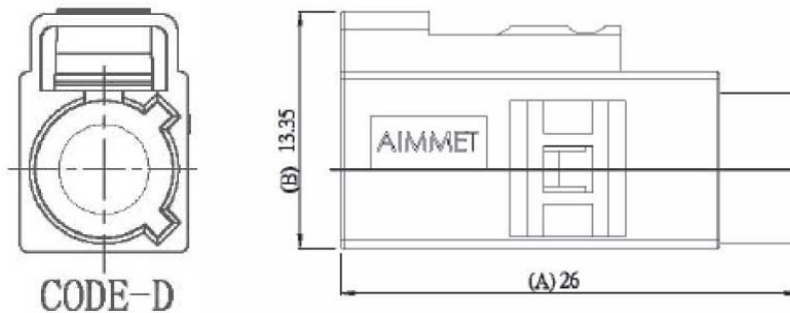
(3): 065: RF Cable length & Connector typ

(4): A: Spare code

2. Appearance: (FOR 065)

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

Connector: FAKRA SMB FEMALE D CODE ; 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)
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

3.2 3D Gain.

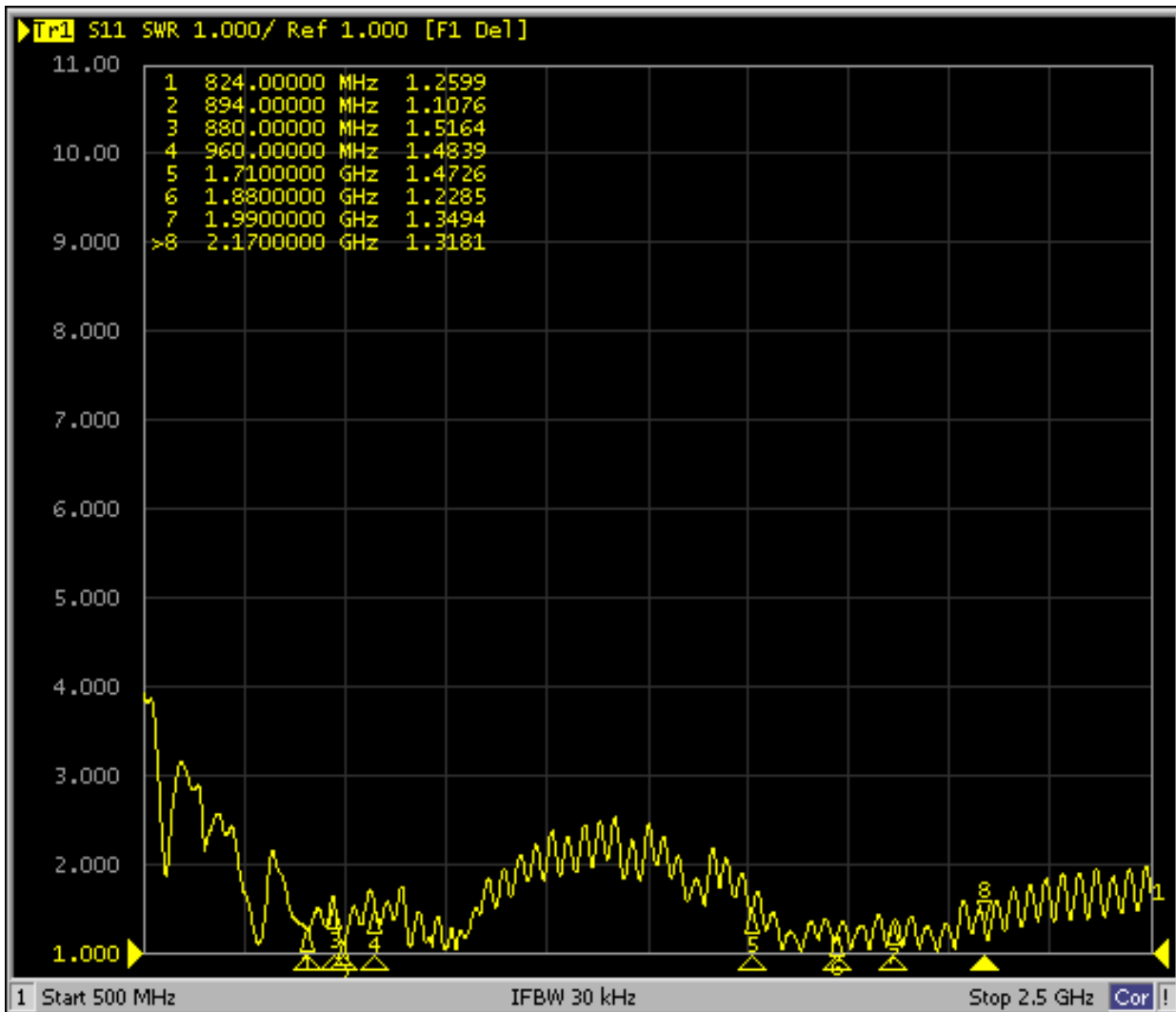
3.2.1 Antenna Body

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

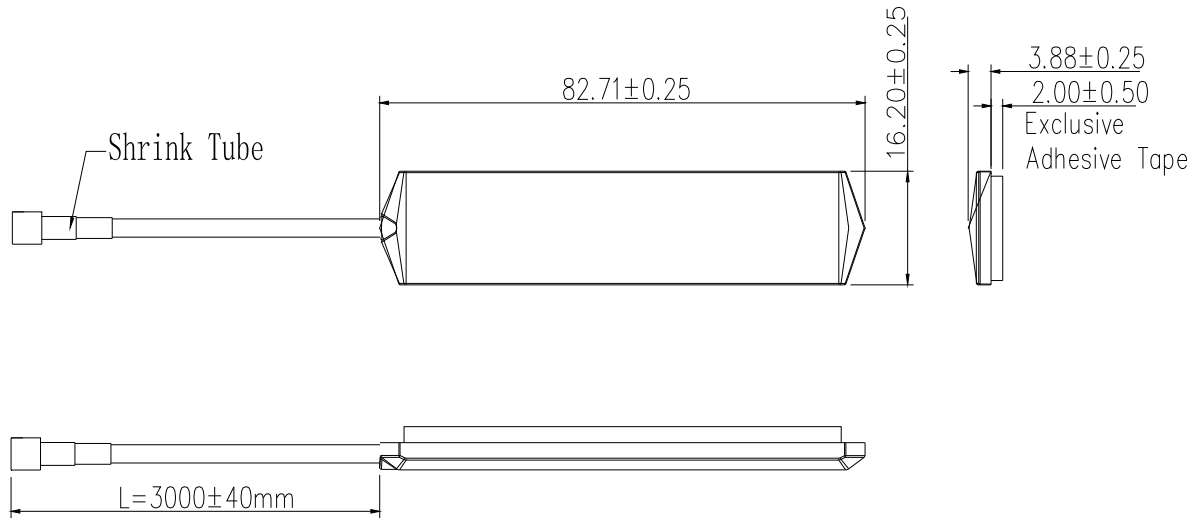
3.2.2 Cable Loss

Attenuation	100 MHz	dB/100M	37.6
	400 MHz	dB/100M	56.8
	550 MHz	dB/100M	68.85
	800 MHz	dB/100M	85.57
	1000 MHz	dB/100M	95.76
	2000 MHz	dB/100M	105.67
	2500 MHz	dB/100M	135.3

3.3 Typical VSWR Value



4. Dimensions and Structure:



5. Installation & Bonding:

5.1 Installation:

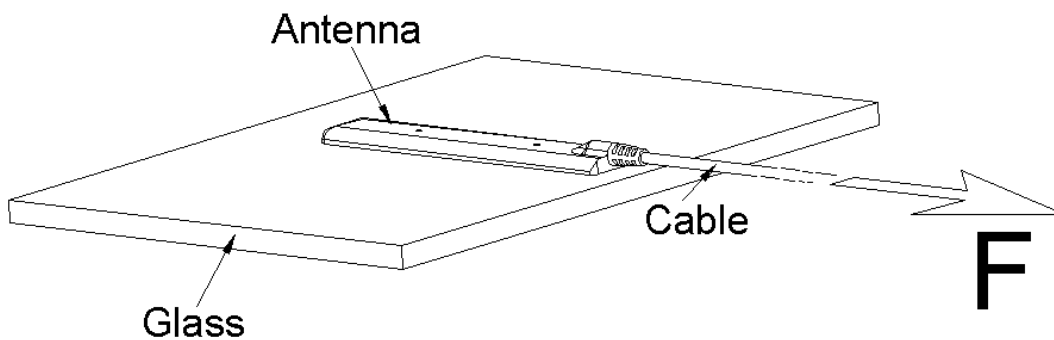
Install antenna on glass or plastic material with vertical and far from metallic frame approximate 50 mm.

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.