

SWE022

PN: SZ19206WB52

Features:

- Frequency bands from 698~960MHz,1710~2690MHz.
- Impedance 50 Ohm.
- Antenna for LTE applications including MIMO systems.
- Maintains high performance on device.

Applications:

- Suitable for all kinds of harsh environments.



1. Electrical Specifications

Standards	4G/3G/2G/NB-IoT/CAT M1	
Frequency range (MHz)	698~960	1710~2690
Peak Gain (dBi)	1.0~5.0	-1.0~3.8
Average Gain (dB)	-3.4~-0.5	-5.2~-1.3
VSWR	< 2.5	< 3.0
Return Loss	< -7.5	< -6.5
Efficiency (%)	45~90%	30~75%
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	
Max. Input Power(W)	5	

2. Mechanical and Environmental Specification

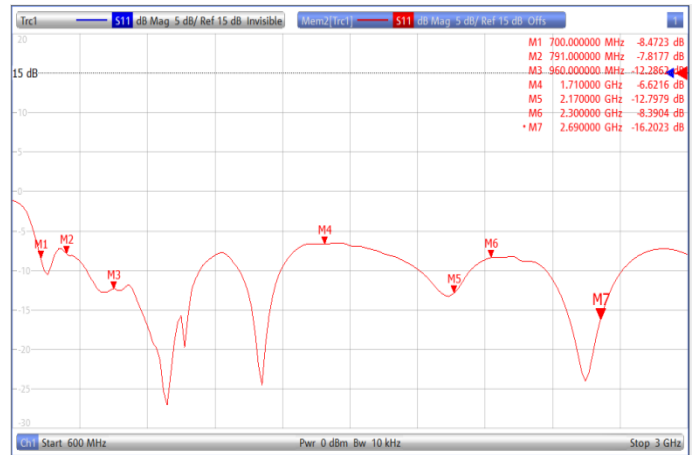
Mounting Type	Connector Mount
Connector Type	SMA
Antenna size(mm)	159 x 17.5mm
Material	ABS
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

3. Antenna parameters

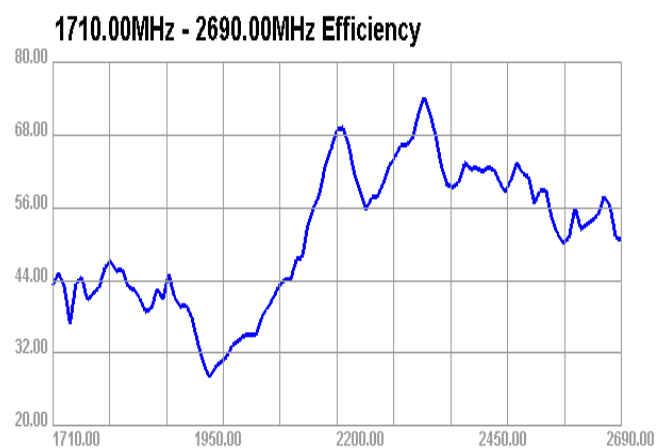
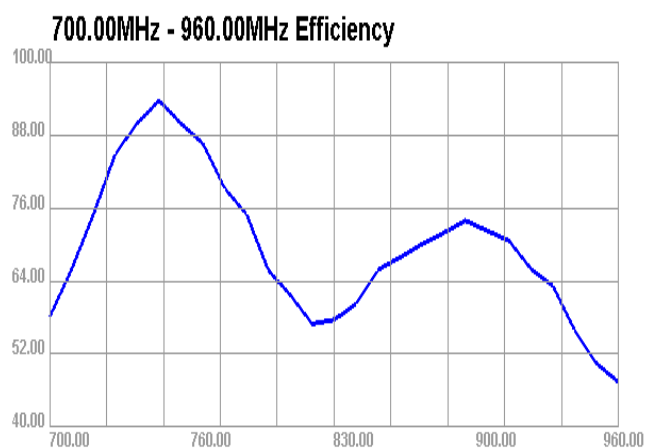
3.1 General Specification

FRE (MHz)	700	791	960	1710	2170	2300	2690
VSWR	2.21	2.37	1.64	2.74	1.59	2.22	1.36
Return Loss	-8.47	-7.81	-12.28	-6.62	-12.79	-8.39	-16.20
Eff (%)	58.1	74.9	47.3	43.1	58.3	64.3	50.7
PEAK Gain (dBi)	0.98	4.67	1.71	-0.18	3.16	3.21	1.01

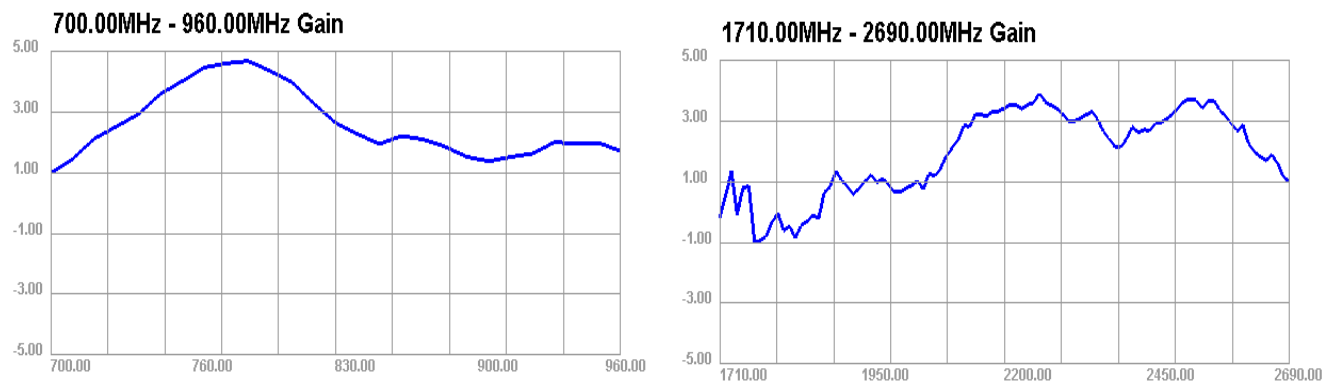
3.2 VSWR and Return Loss



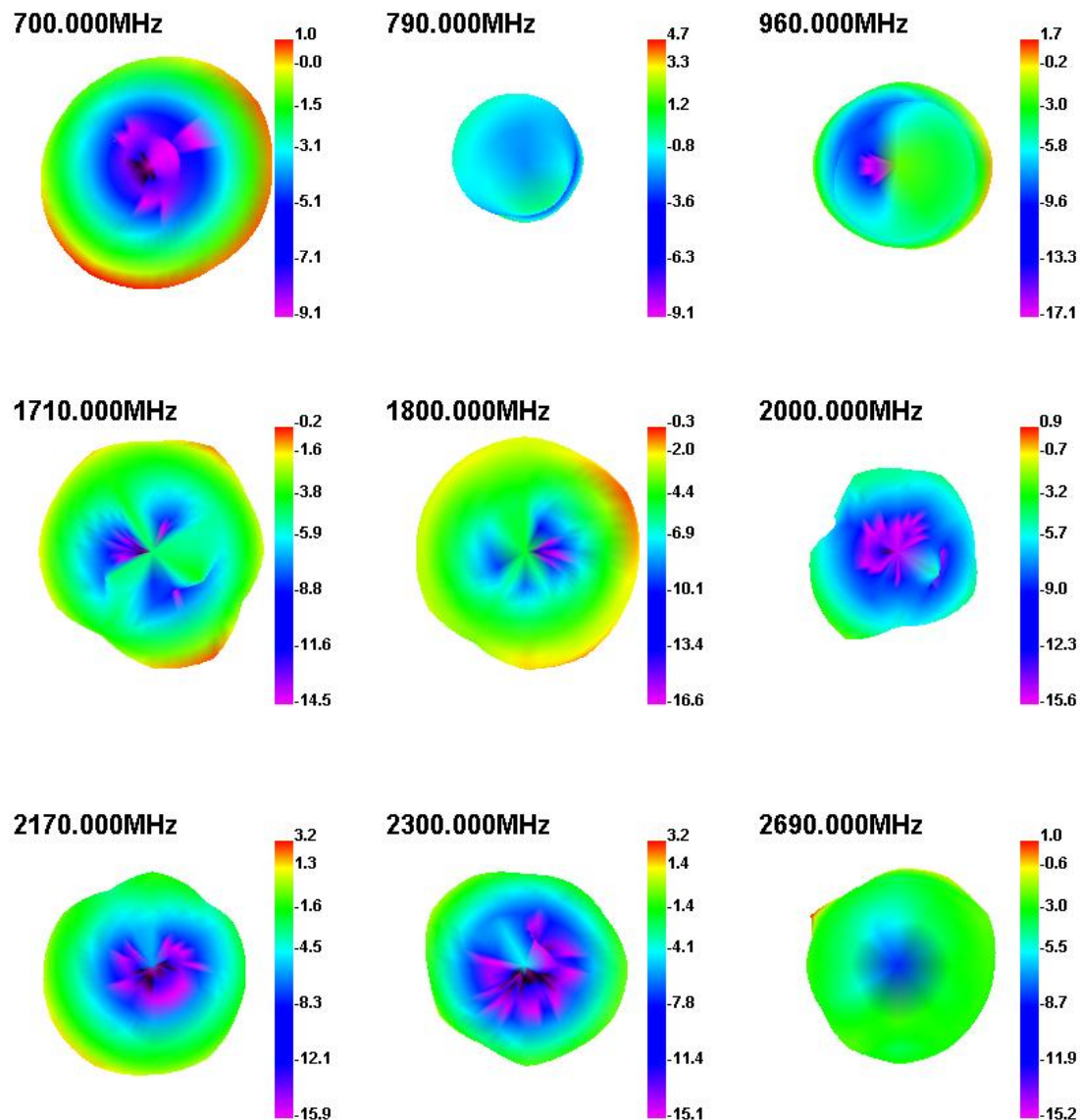
3.3 Efficiency



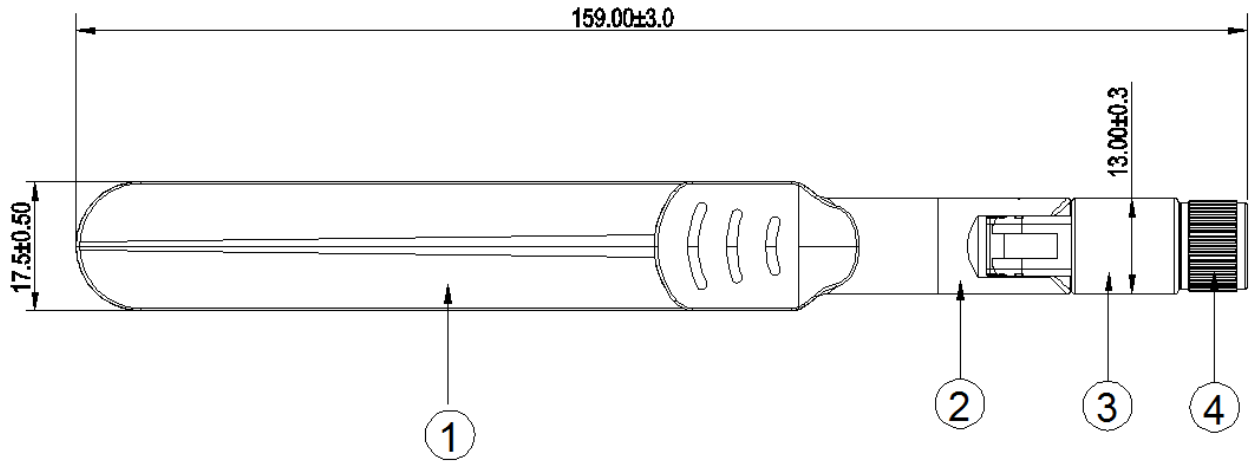
3.4 Gain



3.5 Directional Pattern



4. Antenna Drawing



4	SMA	SMA-J	black	1
3	Lower Firmware	ABS	black	1
2	Upper firmware	ABS	black	1
1	noumenon	ABS	black	1
Series	Component name	Specification	Color	Quantity