

SWE053

PN: SZ21450WB56

Features:

- Frequency bands from 698~ 960MHz, 1710~2690MHz, 3300~6000MHz
- Impedance 50 Ohm
- Antenna for 5G applications including MIMO systems
- Maintains high performance on device



Applications:

- Suitable for all kinds of harsh environments
- DTU/Gateway/Router
- CPE
- LTE monitor
- Others

1. Electrical Specification	3
2. Mechanical and Environmental Specifications	3
3. Antenna Parameters	4
4. Antenna Drawing	8
Changelog	9

Sunnyway RF reserves the right to change specifications and product descriptions.

Sunnyway RF reserves all rights to this document and the information contained herein. reproduction, use or disclosure to third parties without express permission is strictly prohibited.

1. Electrical Specification

Standards	5G&4G&3G&2G&NB-IoT&CAT M1&WIFI 6&6E		
Frequency range (MHz)	698~960	1710~2690	3300-6000
Peak Gain (dBi)	-0.9~2.4	-1.9~4.3	-7.8~5.7
Average Gain (dB)	-3.2~-1.0	-4.2~-1.0	-10.7~-1.0
VSWR	< 3.2	< 4.3	< 3.5
Return Loss	< -5.6	< -4.0	< -5.1
Efficiency (%)	48~79	38~80	8~84
Polarization mode	Linear		
Radiation pattern	Omni-Directional		
Output impedance (Ω)	50		
Max. Input Power(W)	5		

2. Mechanical and Environmental Specifications

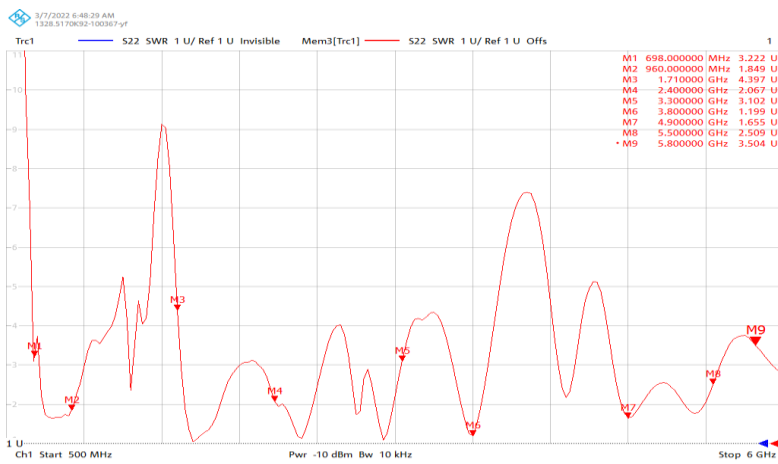
Mounting Type	Connector Mount
Connector Type	SMA-M
Antenna size(mm)	$\Phi 13.0 \times 44.1 \times 194(H)$
Material	ABS
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

3. Antenna Parameters

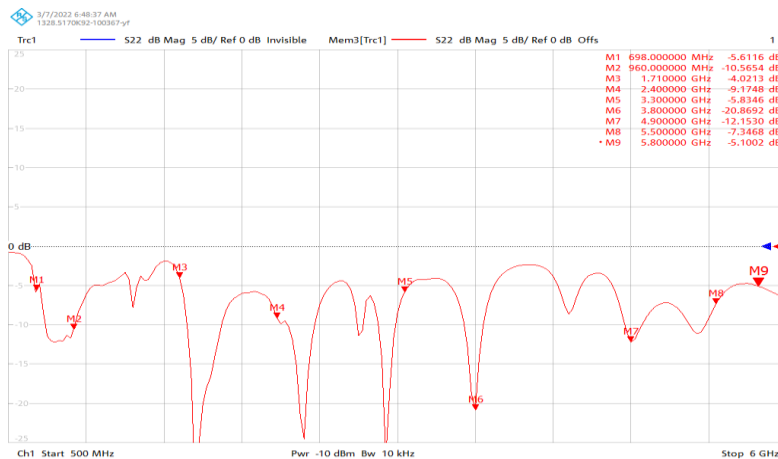
3.1 General Specification

FRE (MHz)	698~960	1710~2690	3300~6000
VSWR	< 3.2	< 4.3	< 3.5
Return Loss	< -5.6	< -4.0	< -5.1
Eff (%)	48~79	38~80	8~84
Average Gain (dB)	-3.2~-1.0	-4.2~-1.0	-10.7~-1.0

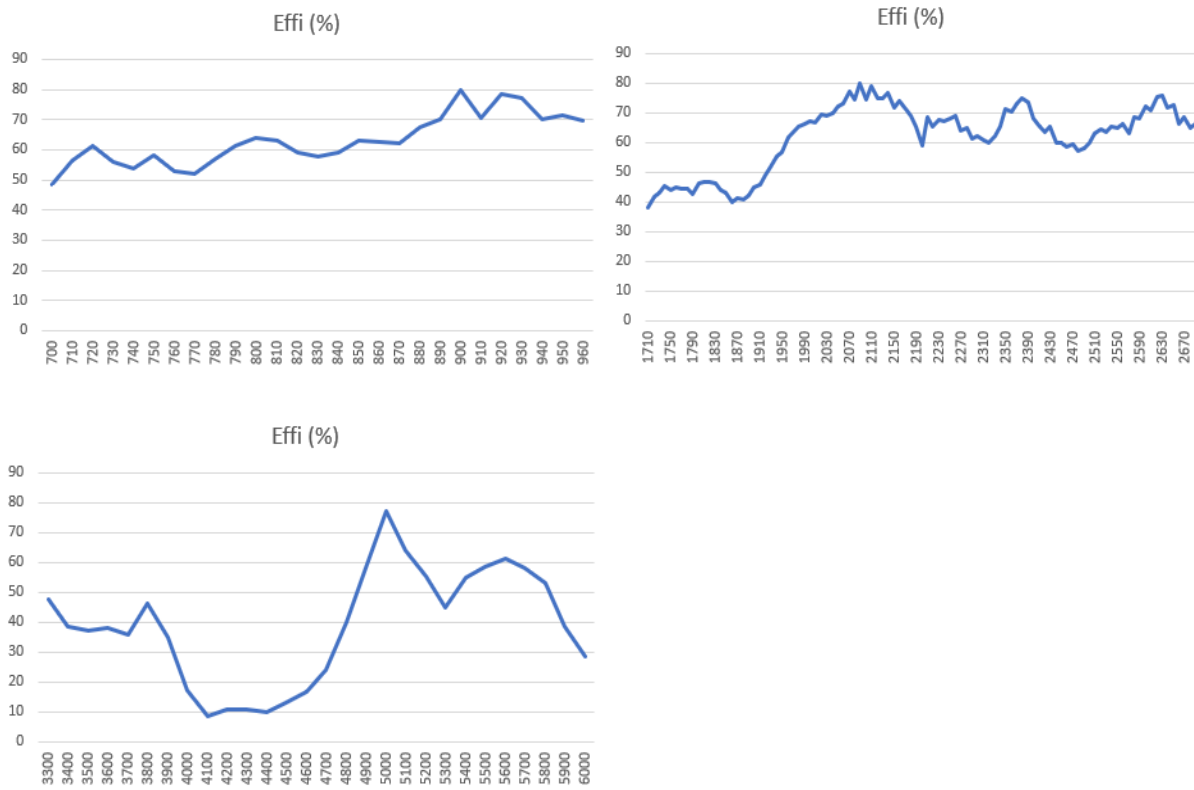
3.2 VSWR



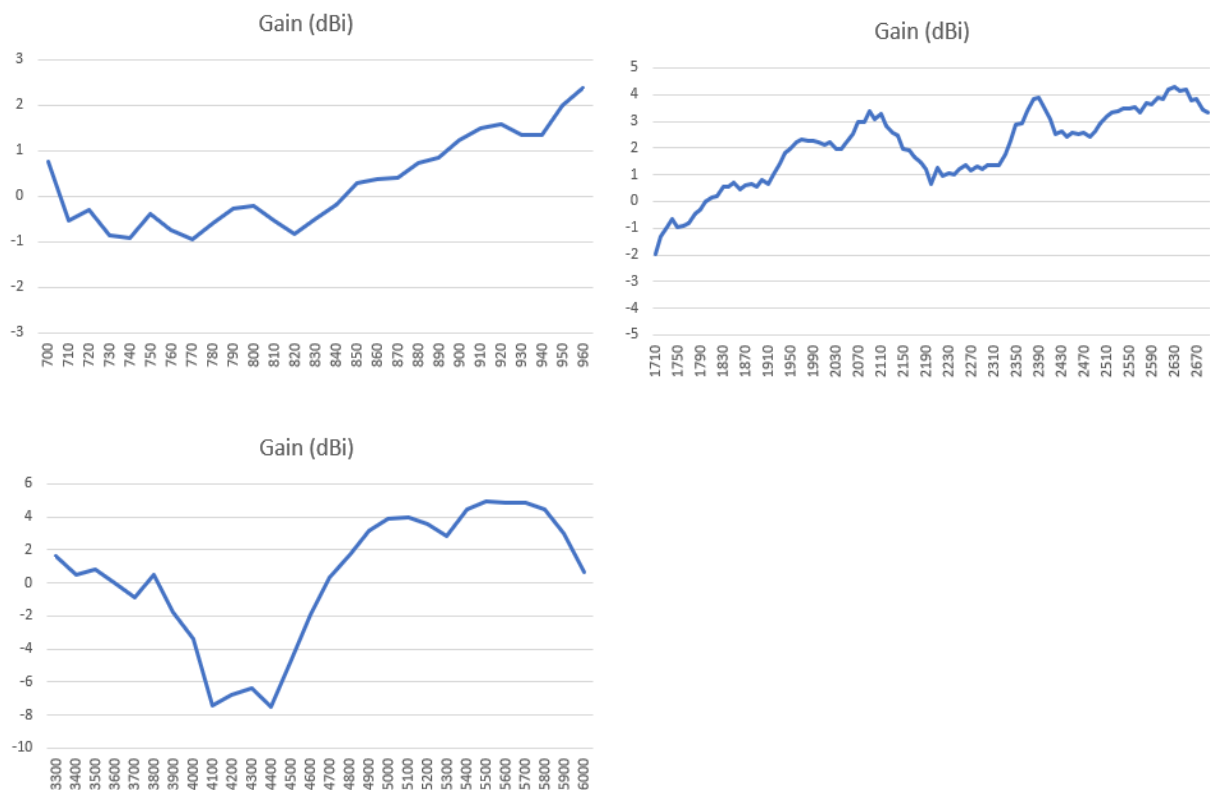
3.3 Return Loss



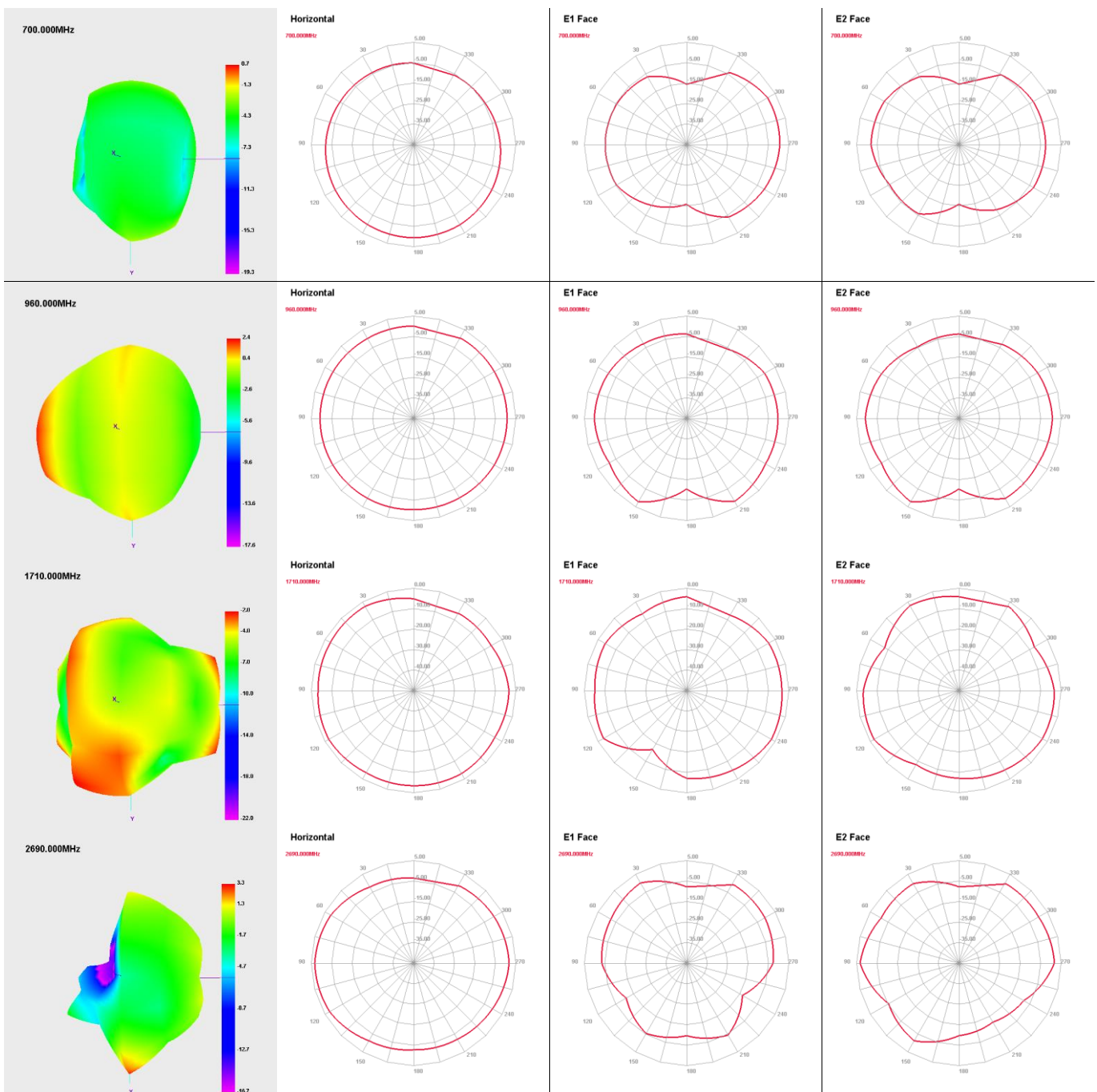
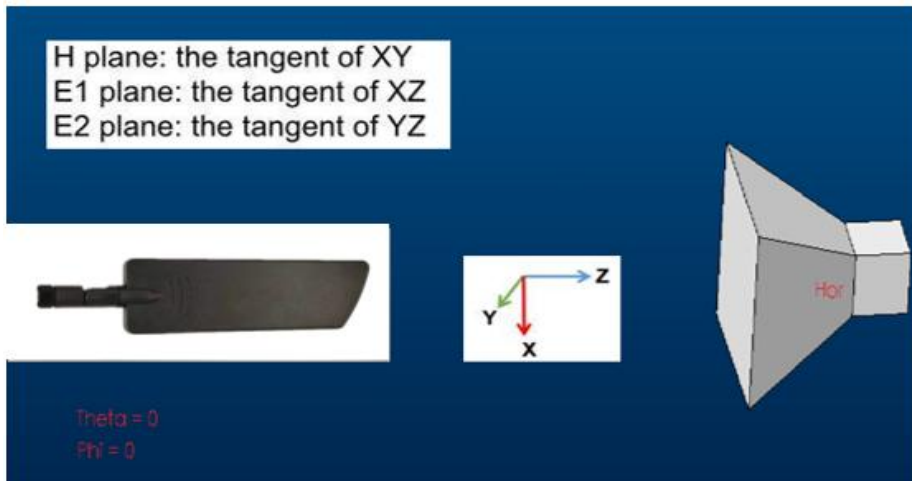
3.4 Efficiency

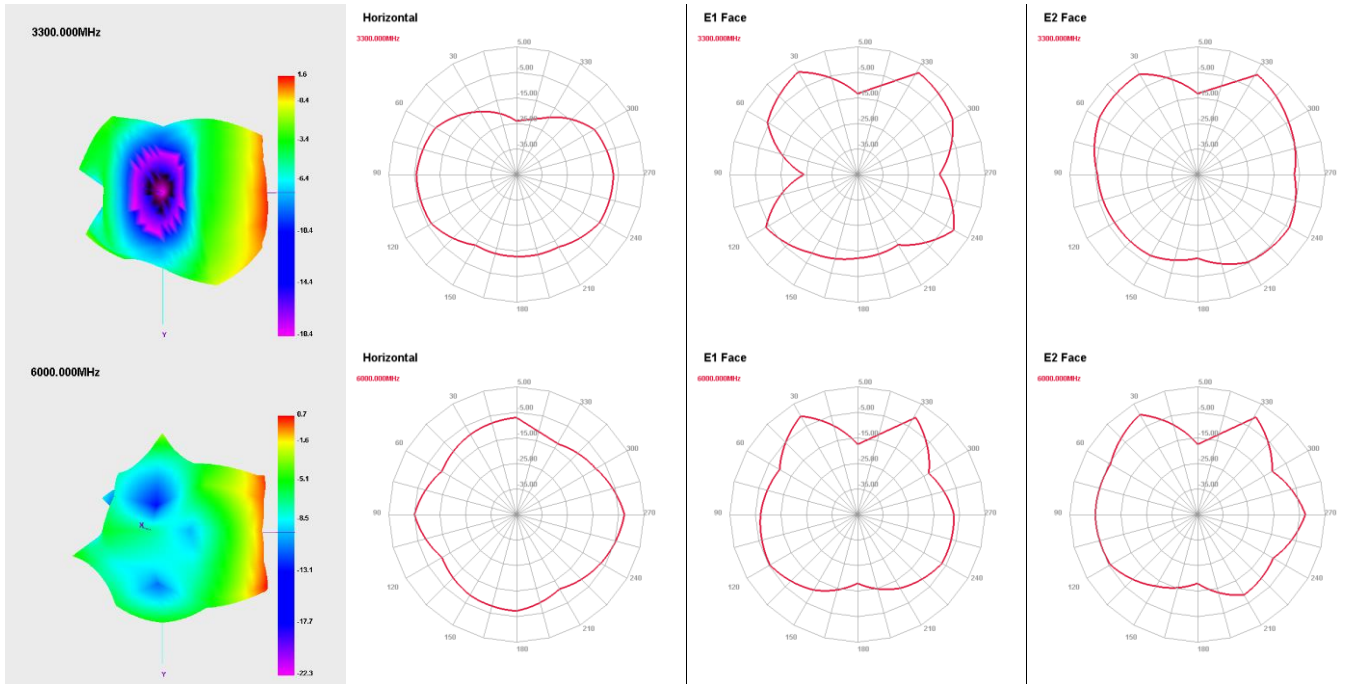


3.5 Gain



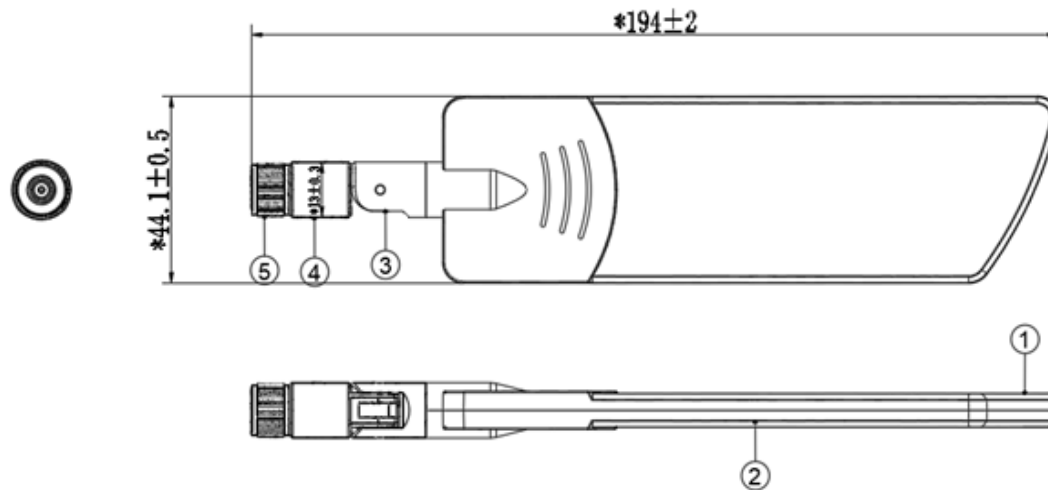
3.6 Directional pattern





4. Antenna Drawing

Unit: mm



5	SMA	SMA-Male	black	1
4	Download firmware	ABS	black	1
3	Upload firmware	ABS	black	1
2	Lower shell	ABS	black	1
1	Upper shell	ABS	black	1
serise	name	Specification	colour	Quantity

Changelog for the datasheet			
Revision	Date	Author:	Notes:
-	2019-08-06	Kevin LV	Initial Datasheet Release
V0	2025-06-15	Kevin LV	Update text formatting, titles, fonts, etc