



SUNNYWAY

SWE040

PN: SW20288EB78



Features:

- Frequency bands from 824~960MHz ,1710~2170MHz.
- 3G/ 2G/NB-IoT Wide band Antenna.
- Sustained High Efficiency and Performance.
- Antenna Size: 82.50Xφ7mm
- Impedance 50 Ohm.

Applications:

- Application of 3G/2G/NB-IoT equipment
- Remote monitoring
- Network Devices
- Gateways
- Others

Sunnyway Technology

Add: 1F, Building 4, No.215-99, GaoGuang Road, QingPu District, Shanghai, China
Tel: +86-021-6083 5368 Fax: +86-021-6484 2328
Email: sales@sunny-way.com Web: www.sunny-way.com



1. Electrical Specification

Standards	3G&2G&NB-IoT	
Frequency range (MHz)	824~960MHz	1710~2170MHz
Peak Gain (dBi)	-1.8~0	0.5~2.5
Average Gain (dB)	-4.7~-3.4	-7.0~-2.5
VSWR	< 4.0	< 5.0
Return Loss (dB)	< -4.5	< -4.0
Efficiency (%)	34.0~46.0	20.0~56.0
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

2. Mechanical and Environmental Specification

Mounting Type	Connector Mount/Magnet
Connector Type	SMA-Male Standard (Straight)
Antenna size(mm)	82.50X ϕ 7mm
Material	ABS
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

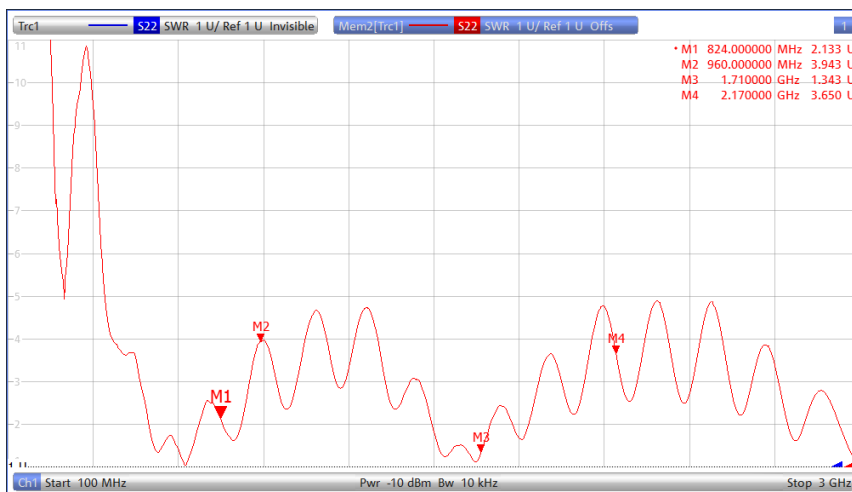


3. Antenna parameters

3.1 General Specification

FRE (MHz)	824	960	1710	1990
VSWR	2.1	3.9	1.3	3.6
Return Loss	-8.8	-4.5	-16.6	-4.8
Eff (%)	34.1	38.7	56.7	25.0
Average Gain (dB)	-4.7	-4.1	-2.5	-6.0

3.2 VSWR



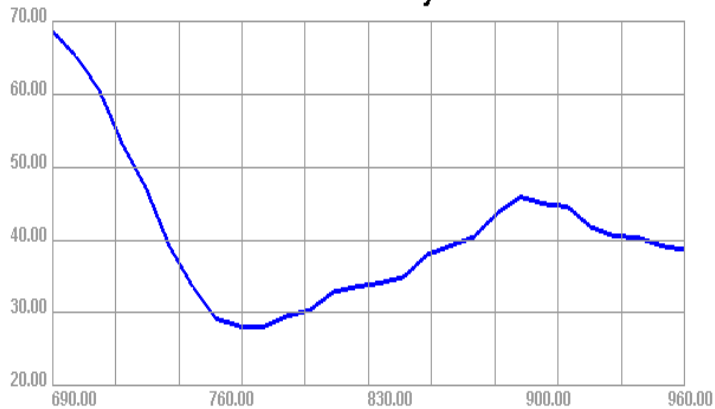
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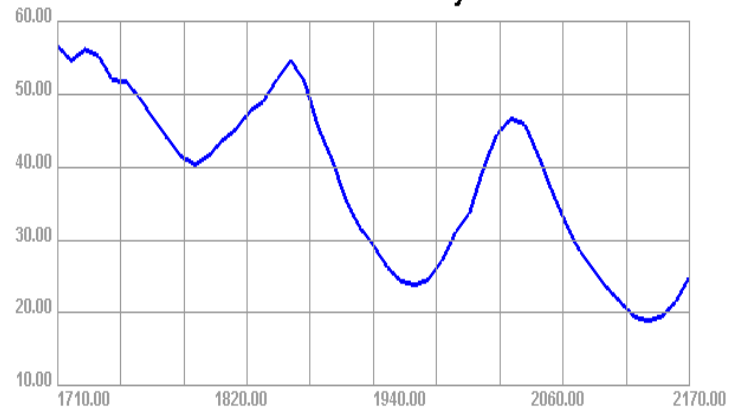


3.4 Efficiency

690.00MHz - 960.00MHz Efficiency

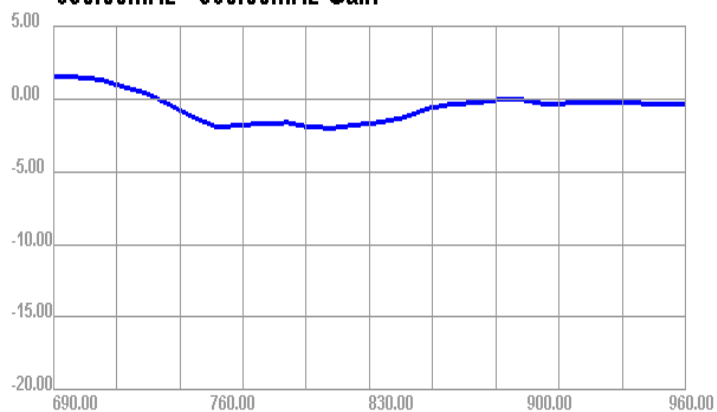


1710.00MHz - 2170.00MHz Efficiency

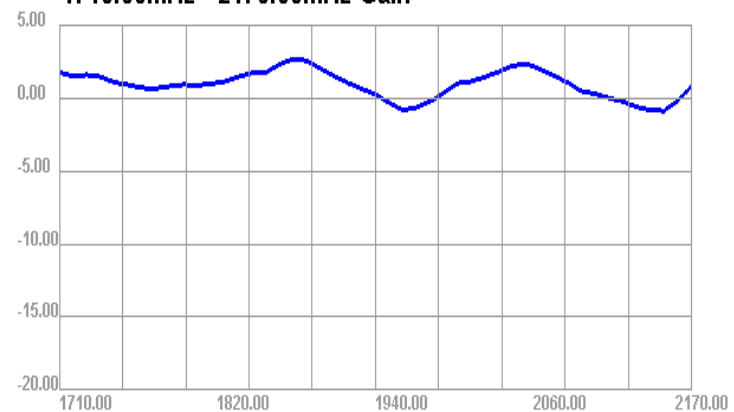


3.5 Gain

690.00MHz - 960.00MHz Gain

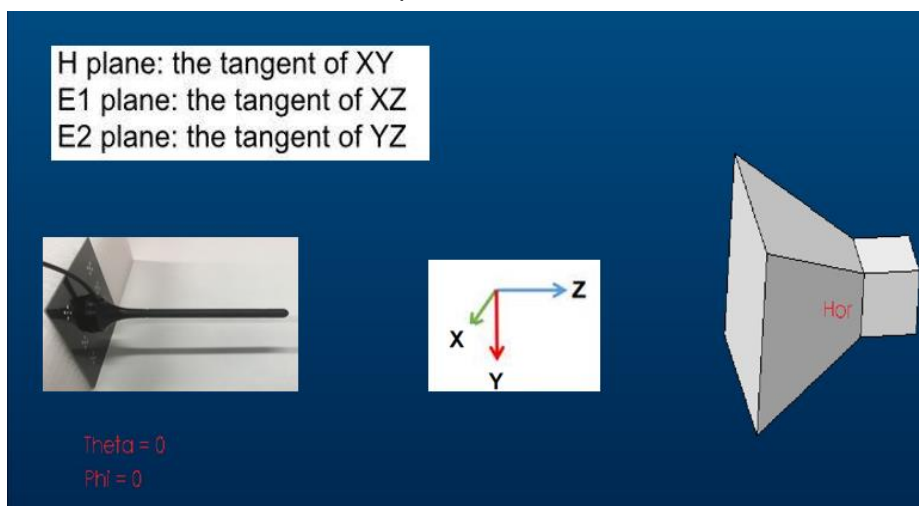


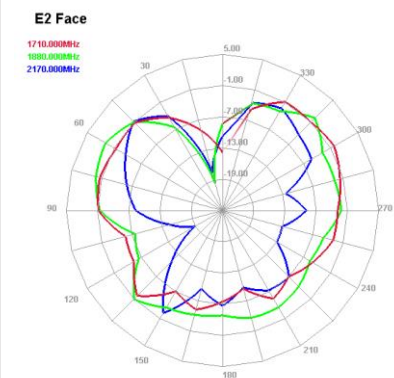
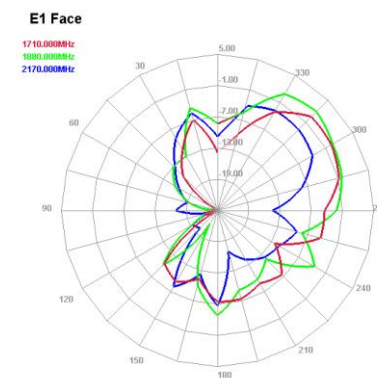
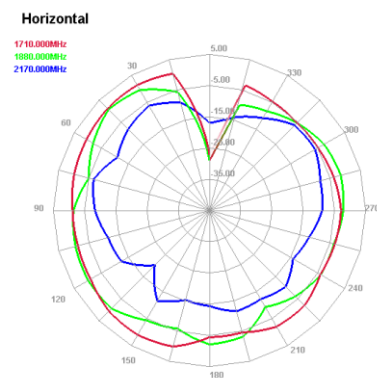
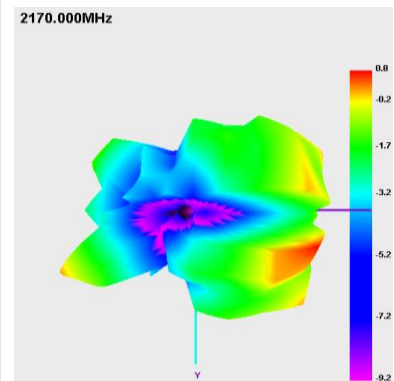
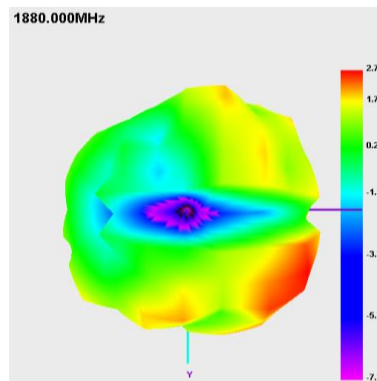
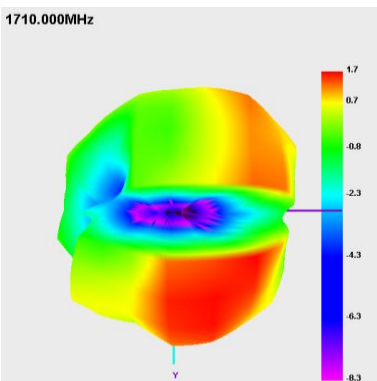
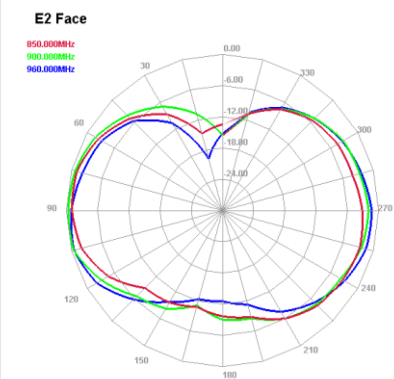
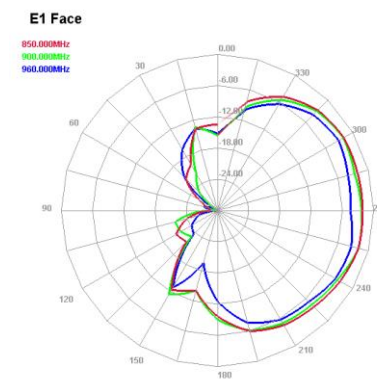
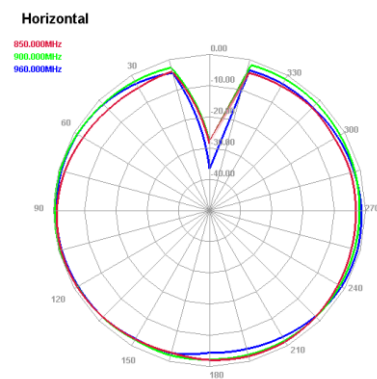
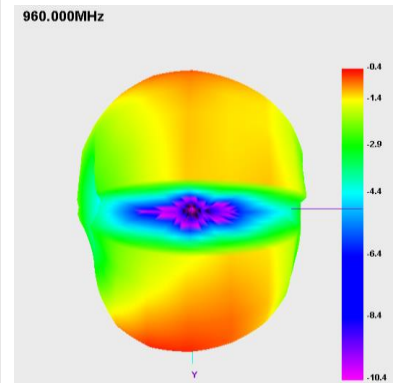
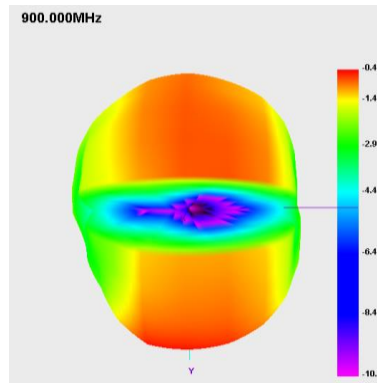
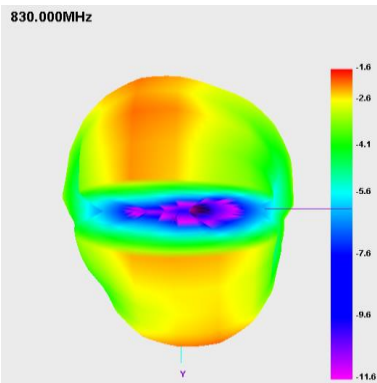
1710.00MHz - 2170.00MHz Gain



3.6 Directional pattern

Note: measured with Ground plane which size is 80*80mm







4. Antenna Drawing

