



SWFG001

PN: SW20269EA63

Features

- Antenna for 2400~2500MHz, 5150~5850MHz
- Impedance 50 Ohm, High gain
- Lightning Protection FRP
- Maintains high performance on device

Applications:

- Automotive
- Remote Monitoring
- Security
- Others

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1. Introduction



The Sunnyway RF SWFG001 is a fiberglass omnidirectional outdoor antenna for 2.4/5.8GHz band including Bluetooth and Wi-Fi, excellent efficiency in all frequency band.

The fiberglass housing enables antenna to be used in harsh environments, making it more robust, vandal resistant and safer than traditional whip antennas. with a compact overall dimension of 330mm in height and 20mm wide. connectivity is made via the rugged, industry standard, N-Type connector.

Typical applications:

- Automotive
- Remote Monitoring
- Security
- Others

2. Electrical Specification

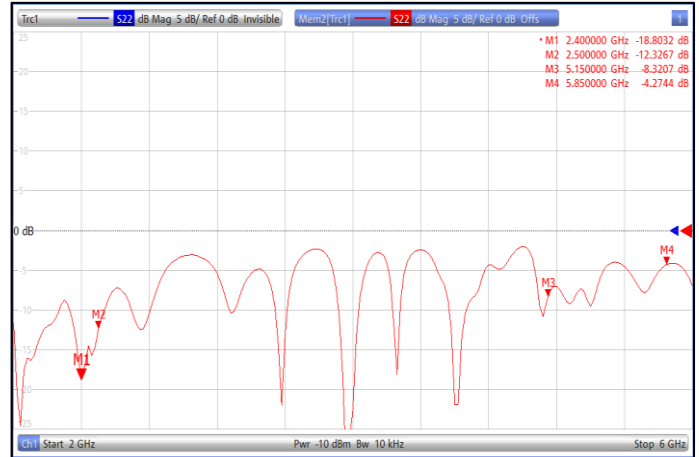
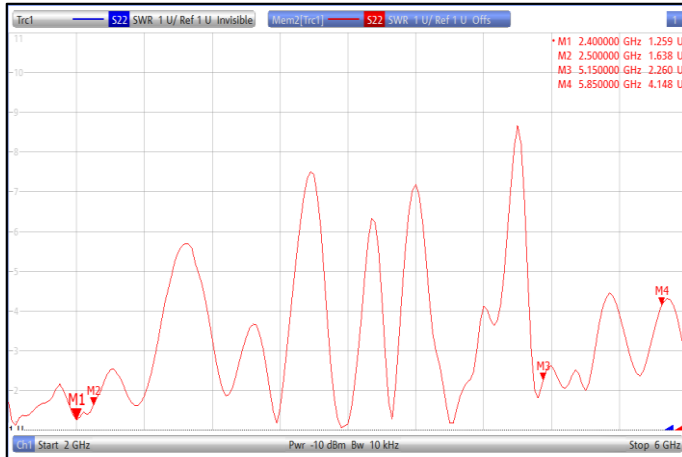
Standards	WiFi 2.4G/BT	WiFi 5G
Frequency range (MHz)	2400~2500	5150~5850
Peak Gain (dBi)	4.0~5.8	3.5~7.0
Average Gain (dB)	-1.4~-1.1	-2.1~-0.3
VSWR	< 2.0	< 4.5
Return Loss	< -12.0	< -4.0
Efficiency (%)	72~77%	62~94%
Horizontal Beamwidth	360°	
Vertical Beamwidth	55±3°	
Impedance(Ω)	50	
Polarization	Vertical polarization	
Max. Power(W)	50	
Connector	N-J	
Lightning Protection	DC grounding	

3. Mechanical and Environmental Specification

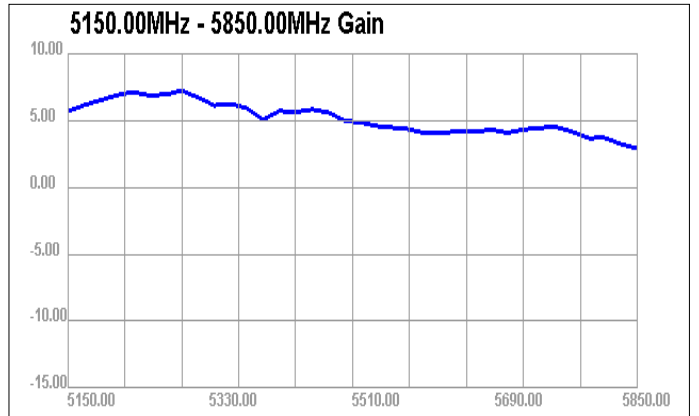
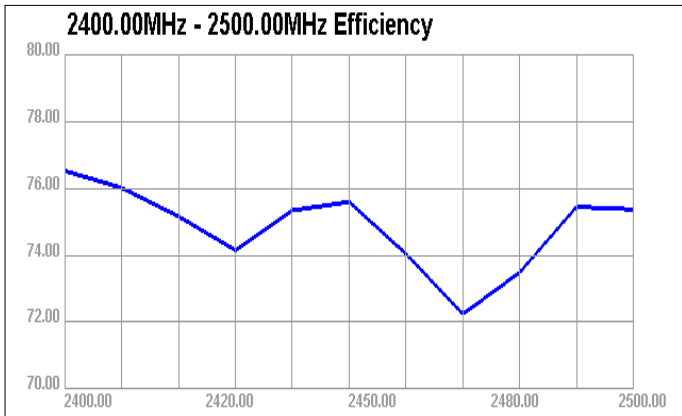
Dimension(mm)	Φ20*330 mm
Weight (g)	118.57g
Rated Wind Velocity	36.9 m/s
Operational Humidity	< 95
Operating temperaturec	-40 ~ 55
Radome material	FRP

4. Antenna parameters

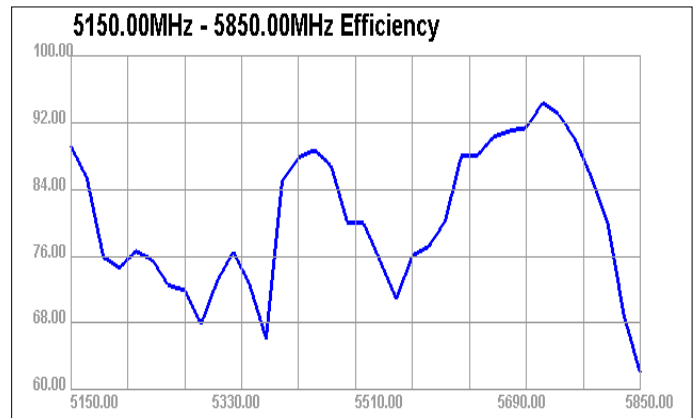
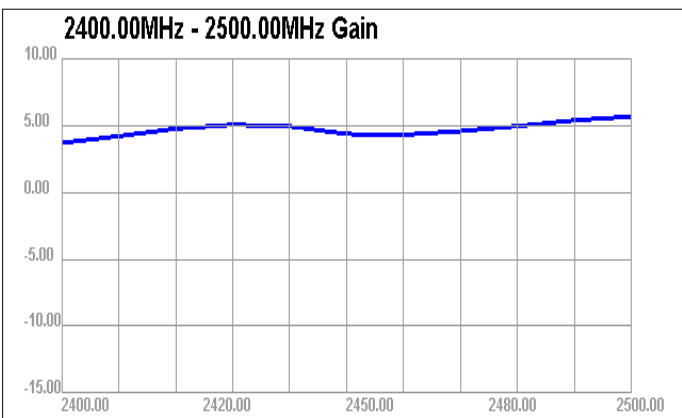
4.1 VSWR and Return Loss



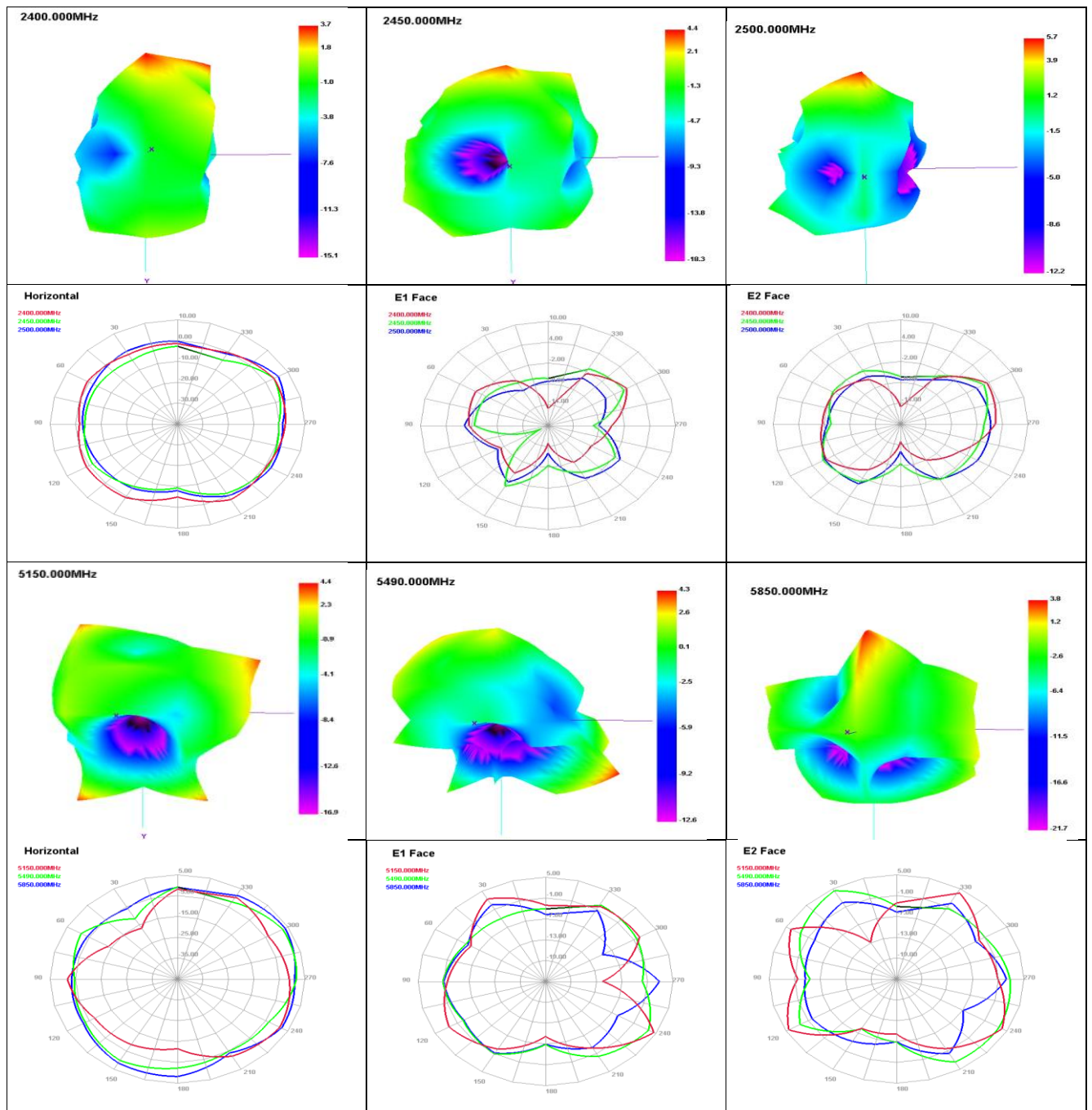
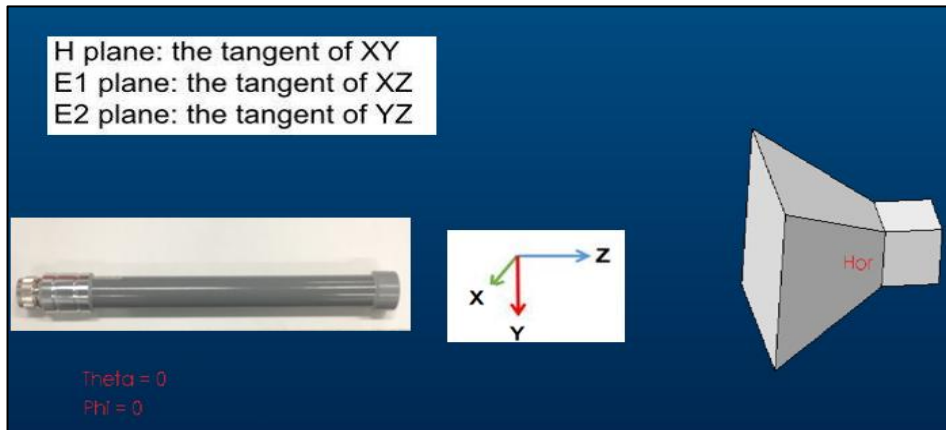
4.2 Efficiency



4.3 Gain



4.4 Directional Pattern



5. Antenna Drawing(Unit:mm)

