D03130

PN: SH23163WB52

Key features:

- Frequency band 915MHZ
- Small size
- Impedance 50 Ohm

Typical applications:

- Smart Metering
- Remote Pipeline Monitoring
- Transportation
- Others

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1. Introduction

- The Sunnyway D03130 915MHZ terminal mount antenna, at just 108.3mm in height and10mm indiameter. The antenna designed for superior performance and reliability, has an omnidirectional radiation pattern and extremely high efficiency and gain on both the 915MHZ bands, the antenna has a wide-band high efficiency response on nearly all915MHZ frequency bands worldwide, and can also be used for other cellular and wireless applications.
- Smart Metering
- Remote Pipeline Monitoring
- Transportation
- Others

2. Electrical Specification

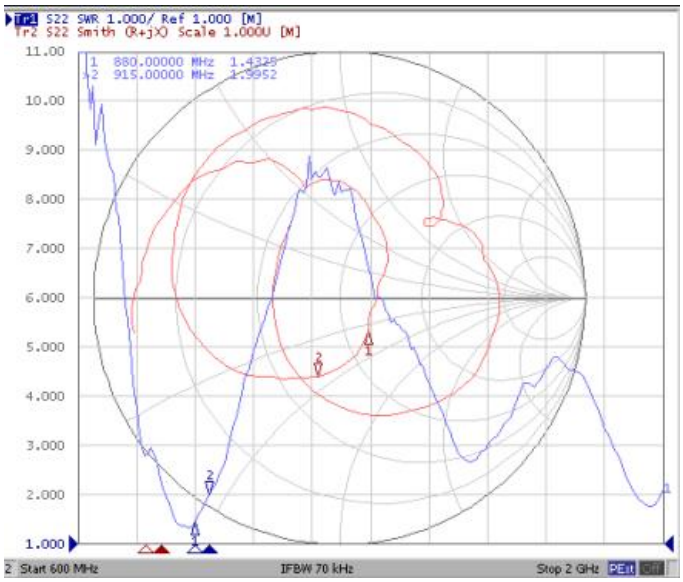
Standards	915MHZ
Frequency range (MHz)	915MHZ
Peak Gain (dBi)	3.18
Average Gain (dB)	-2.31
VSWR	< 3
Return Loss (dB)	< -5.0
Efficiency (%)	60%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	5

3. Mechanical and Environmental Specification

Mounting Type	Connector Mount
Connector Type	SMA-Male Standard (Right-Angle)
Antenna size(mm)	108.3Xφ10mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

4. Antenna parameters

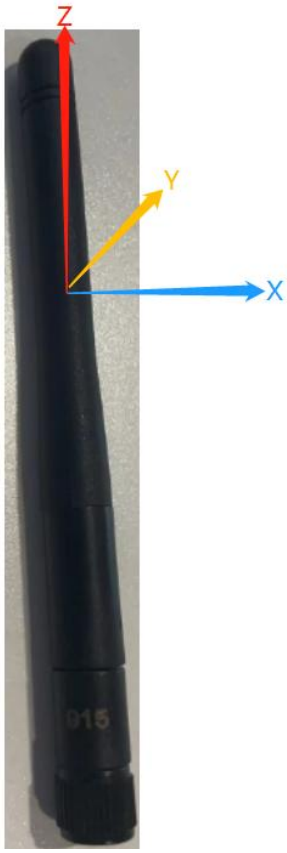
4.1 VSWR and Return Loss

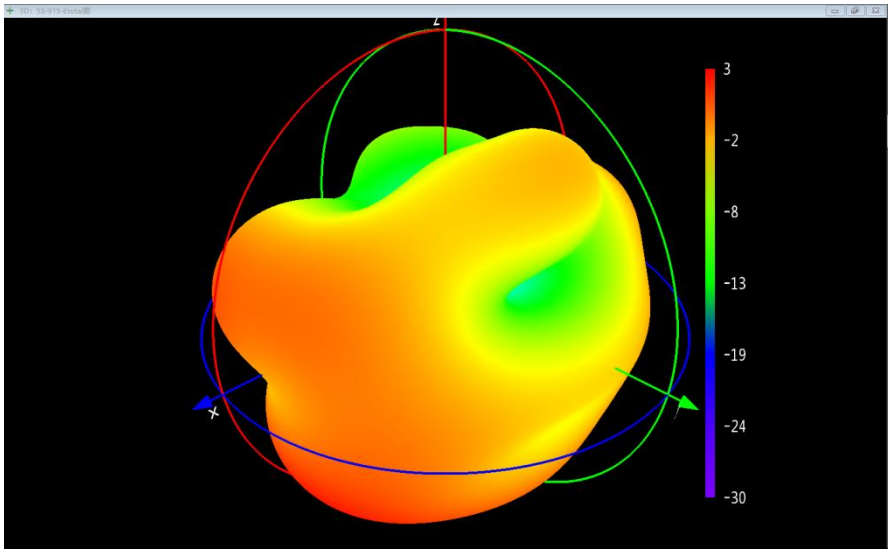


4.2 Efficiency and Gain

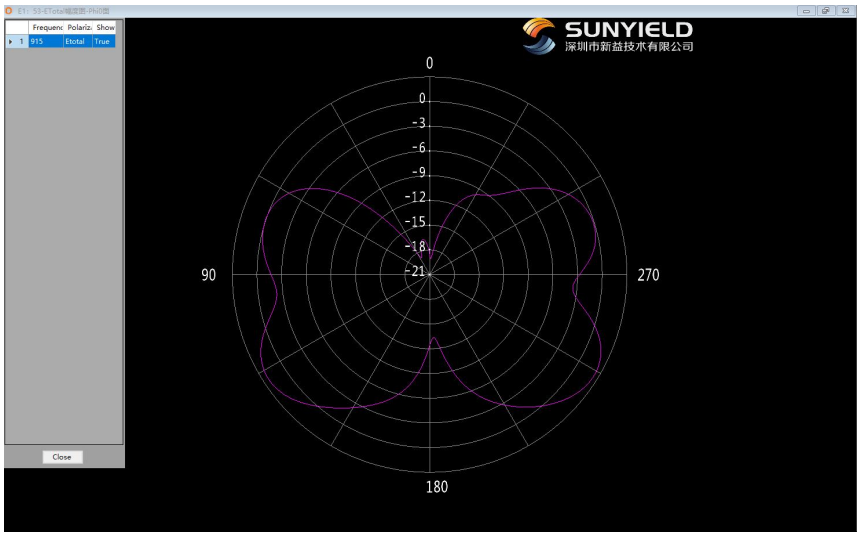
frequency (MHz)	gain(dBi)	efficiency(dBi)	efficiency (%)
905	2.9	-2.18	60.53
910	3.18	-1.99	63.18
915	2.91	-2.31	58.77
920	3.09	-2.25	59.61
925	2.96	-2.55	55.55

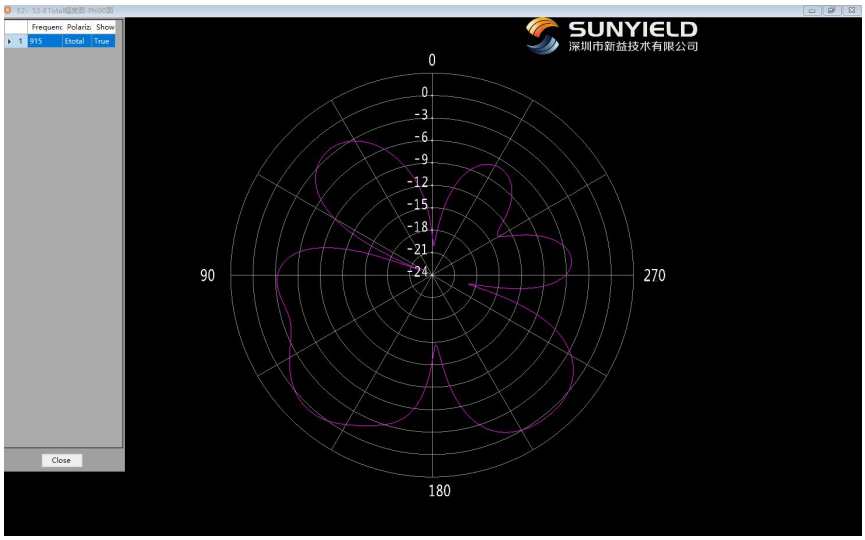
4.3 3D Directional pattern

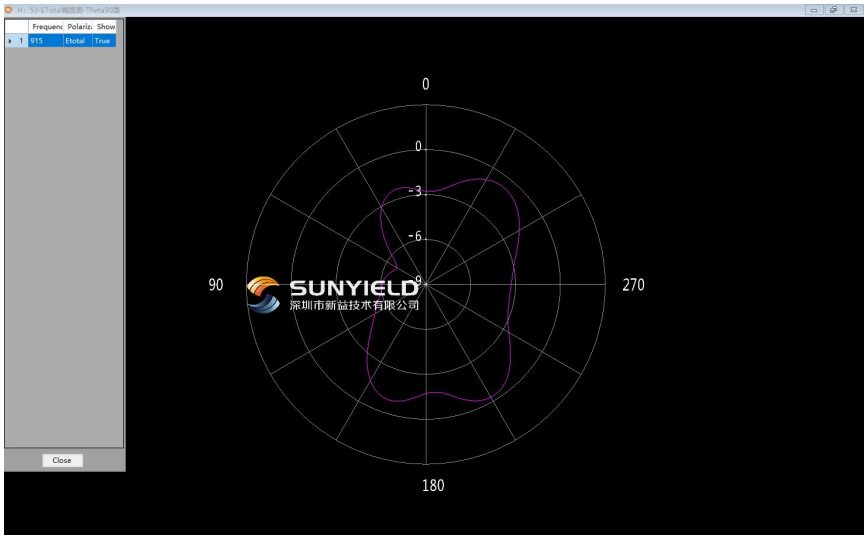




4.4 2D Directional pattern







5. Antenna Drawing(Unit:mm)