

## SWE047-ZT

PN: SZ24169EB56

### Features:

- Antenna for 868/915MHz ,2400~25000MHz.
- Small size.
- Impedance 50 Ohm.



### Applications:

- Remote monitoring.
- Network Devices.
- Gateway.
- Router/CPE.
- Others.

## 1. Electrical Specification

Standards	868MHz&915MHz&2.4G WiFi & BT		
	868	915	2400~2500
Frequency range (MHz)	868	915	2400~2500
Peak Gain (dBi)	2.5	3.4	2.0~2.7
Average Gain (dB)	-1.5	-1.4	-2.7~-2.3
VSWR	1.7	1.7	< 2.0
Return Loss (dB)	-11.4	-11.1	< -10.0
Efficiency (%)	70.6	72.3	54.0~60.0
Polarization mode	Linear	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional	Omni-Directional
Output impedance ( $\Omega$ )	50	50	50
Max. Input Power(W)	25	25	25

Note

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All parameters are measured with Sunnyway's EVK which size is 90\*50mm

## 2. Mechanical and Environmental Specification

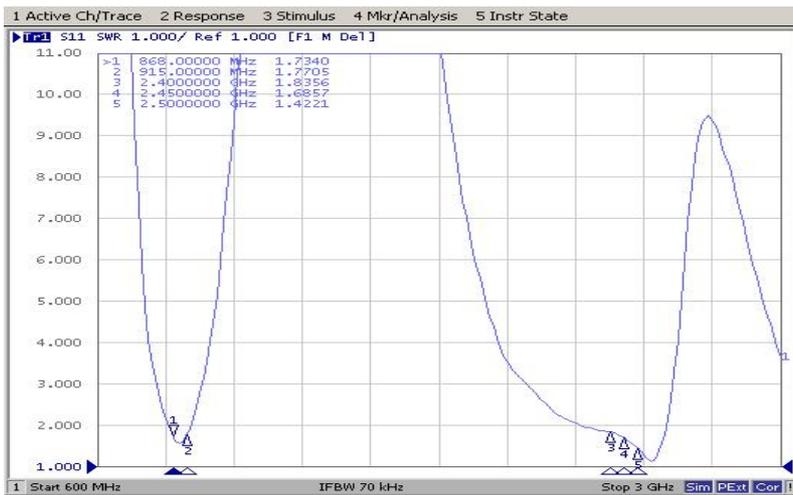
Mounting Type	Connector Mount
Connector Type	RP-SMA MALE
Antenna size(mm)	50X $\phi$ 8mm
Material	ABS
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

### 3. Antenna parameters

#### 3.1 General Data

FRE (MHz)	868	915	2400	2450	2500
VSWR	1.7	1.7	1.8	1.6	1.4
Return Loss	-11.4	-11.1	-10.6	-11.8	-15.2
Eff (%)	70.6	72.3	56.5	55.6	59.2
Average Gain (dB)	-1.5	-1.4	-2.5	-2.6	-2.3

#### 3.2 VSWR

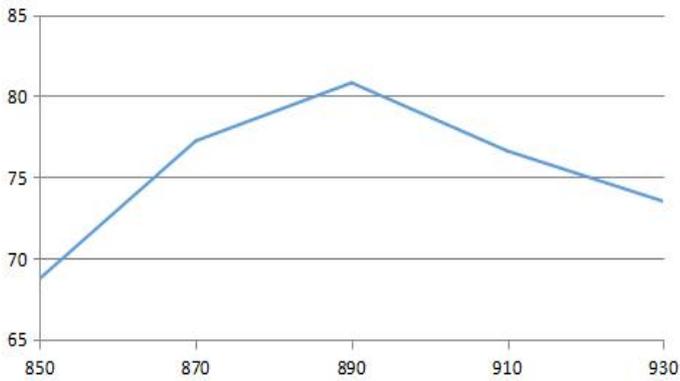


#### 3.3 Return Loss

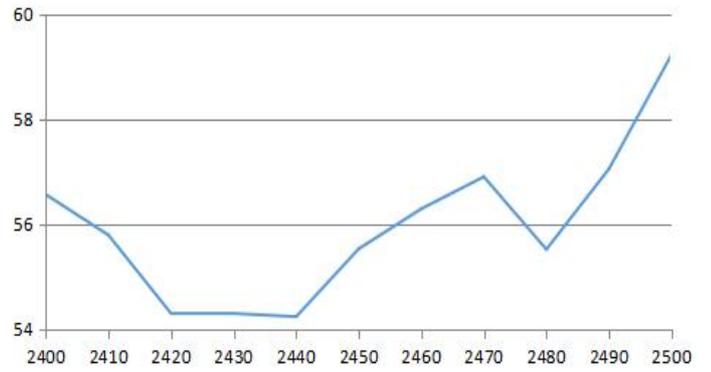


3.4 Efficiency

Effi (%)

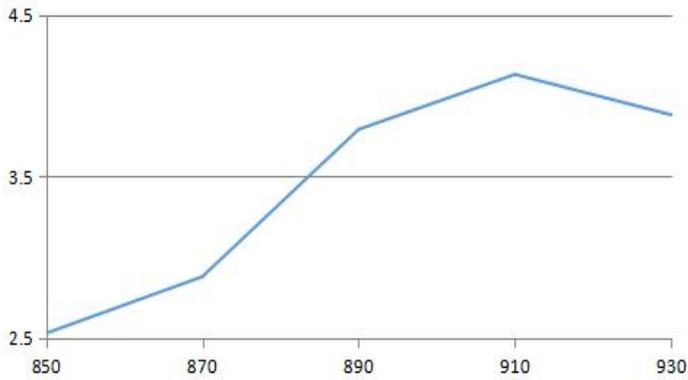


Effi (%)

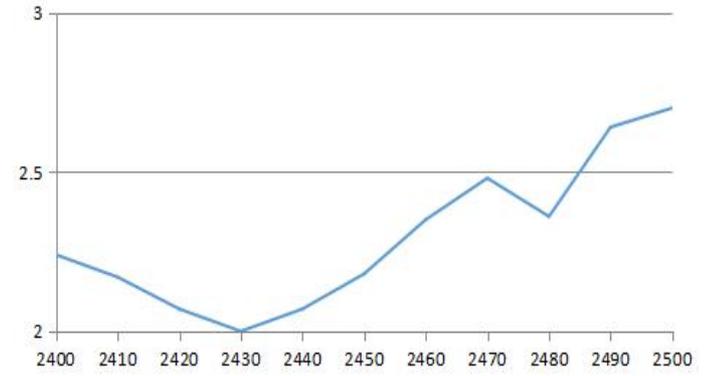


3.5 Gain

Gain (dBi)

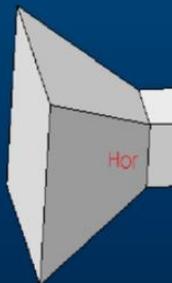
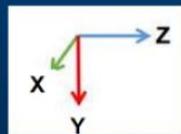


Gain (dBi)



3.6 Directional pattern

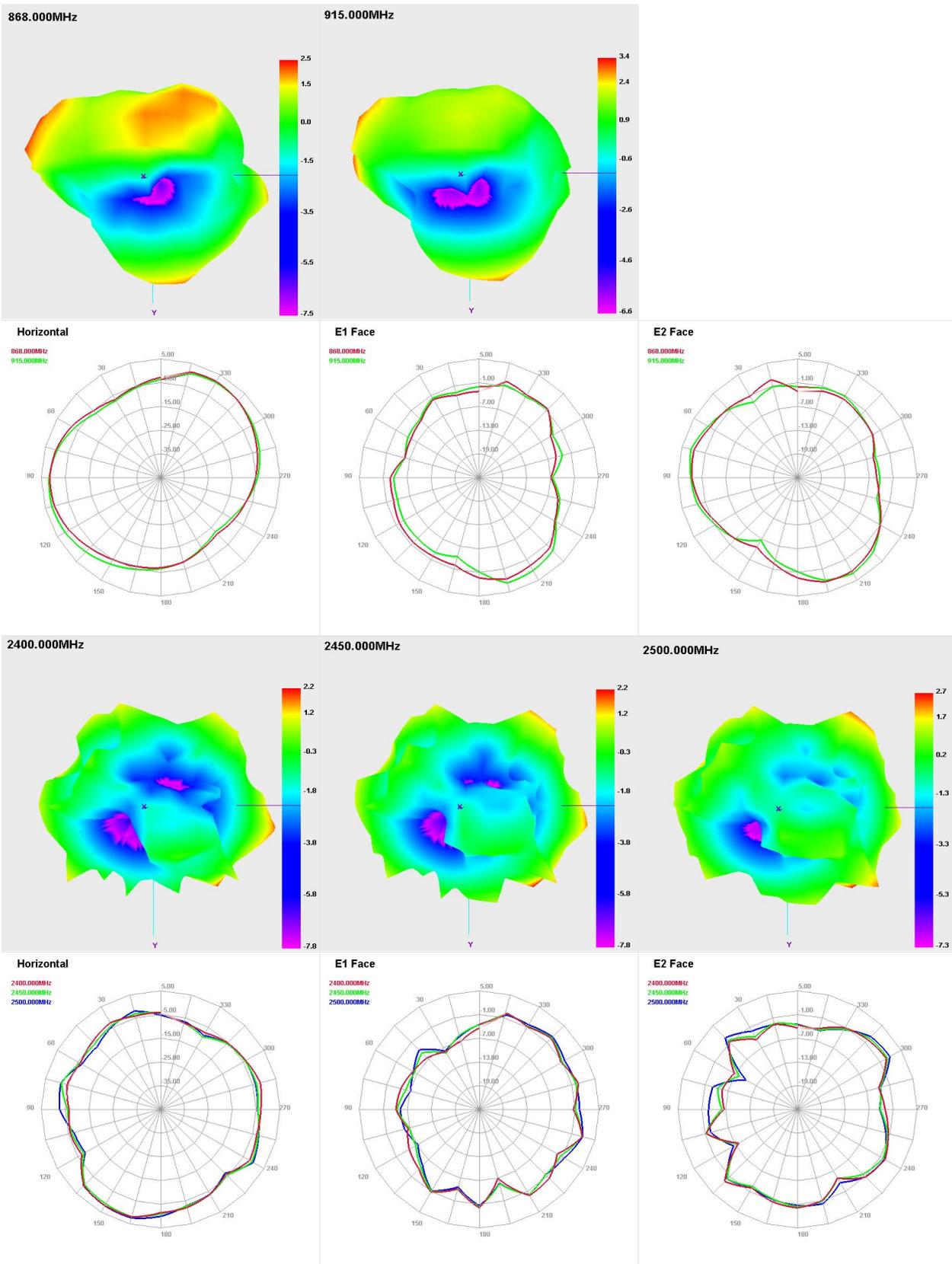
H plane: the tangent of XY  
 E1 plane: the tangent of XZ  
 E2 plane: the tangent of YZ



Theta = 0  
 Phi = 0



EVK which size is 90\*50mm



4. Antenna Drawing(Unit: mm)

由 Autodesk 教育版产品制作

尺寸无要求，要保证组装后无掉落

技术要求	
1. 弹簧材质使用：黄铜	
2. 带“*”符号尺寸为重点尺寸；	
3. 未注公差按一般公差表；	
4. 产品符合ROHS要求。	

序号	名称	规格说明	颜色	用量	备注
1	弹簧		黄色	1	
2	SMA头	SMA直头母针	黄色	1	
3	胶珠		黑色	1	

尚远科技(中国)有限公司	
PART NAME: SMDX-ZT	DATE: 2024-4-11
PART NO: SZ24169EB56	DRAWN: 袁立民
MATERIAL:	CHECKED: 陈敏
FINISHING:	APPROVED:
UNIT: mm	SCALE: 1:1
COLOUR: 黑色	REV: T/A