

SPECIFICATION

Part No. : **NBM0900-011**

Product Name : SMD 868/915 Wide Band Antenna

Features : 868/915 Terminal Mount Integral Antenna

>50% Efficiency on All bands

2.4 dBi Peak Gain

34*11.5*5.0 mm size

High Efficiency Multi-Band SMD antenna

RoHS Compliant



1. Specifications

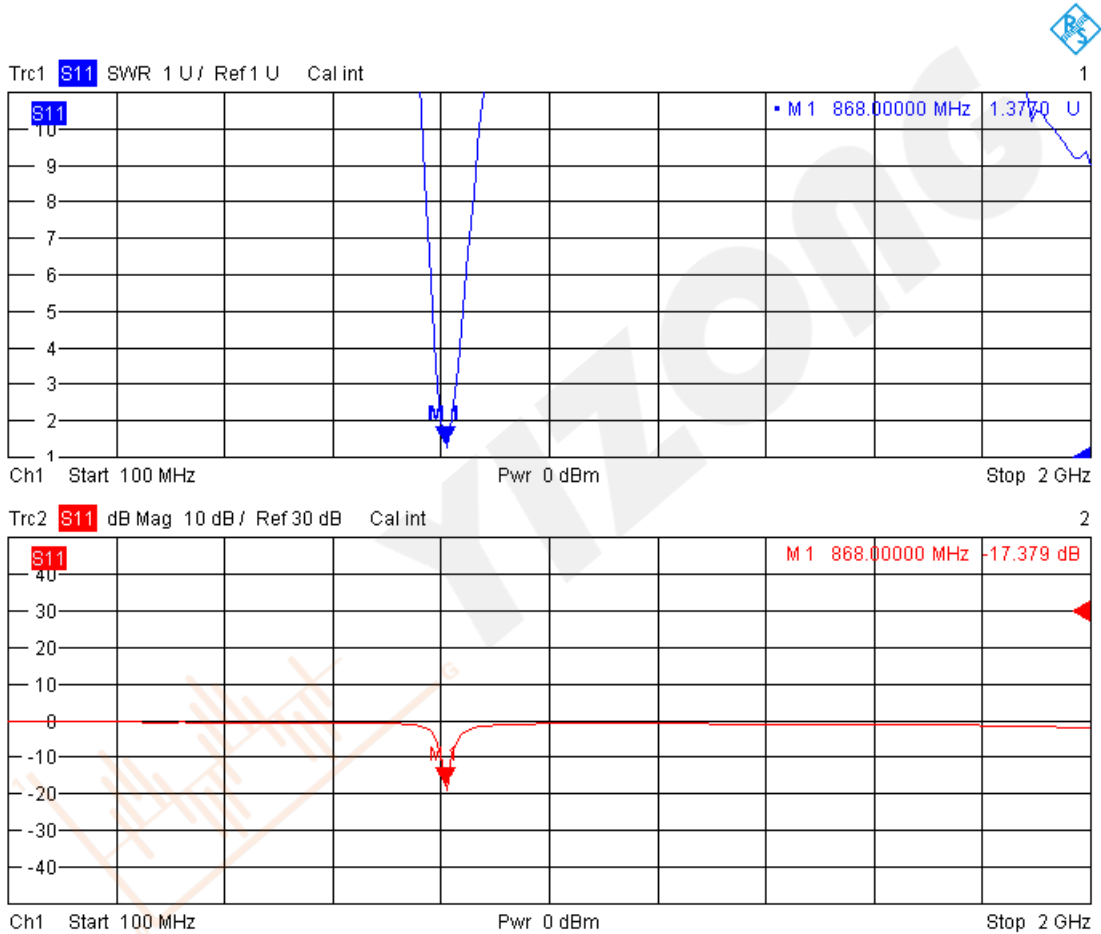
Technical data	
Frequency (MHz)	ISM 860-870 or 902 -928
VSWR	< 2.5
Return Loss (dB)	< -9.9 dB,860-870 MHz < -6.6 dB, 902 -928 MHz
Peak Gain (dBi)	1.7 dBi,860-870 MHz 2.4 dBi, 902 -928 MHz
Efficiency (%)	63%,860-870 MHz 50%,902 -928 MHz
Average Gain (dB)	> -2.0 dB,860-870 MHz > -3.0 dB,902 -928 MHz
Radiation Properties	Omni-directional
Max Input Power (Watts)	5
Polarization	Linear
Impedance (Ohms)	50

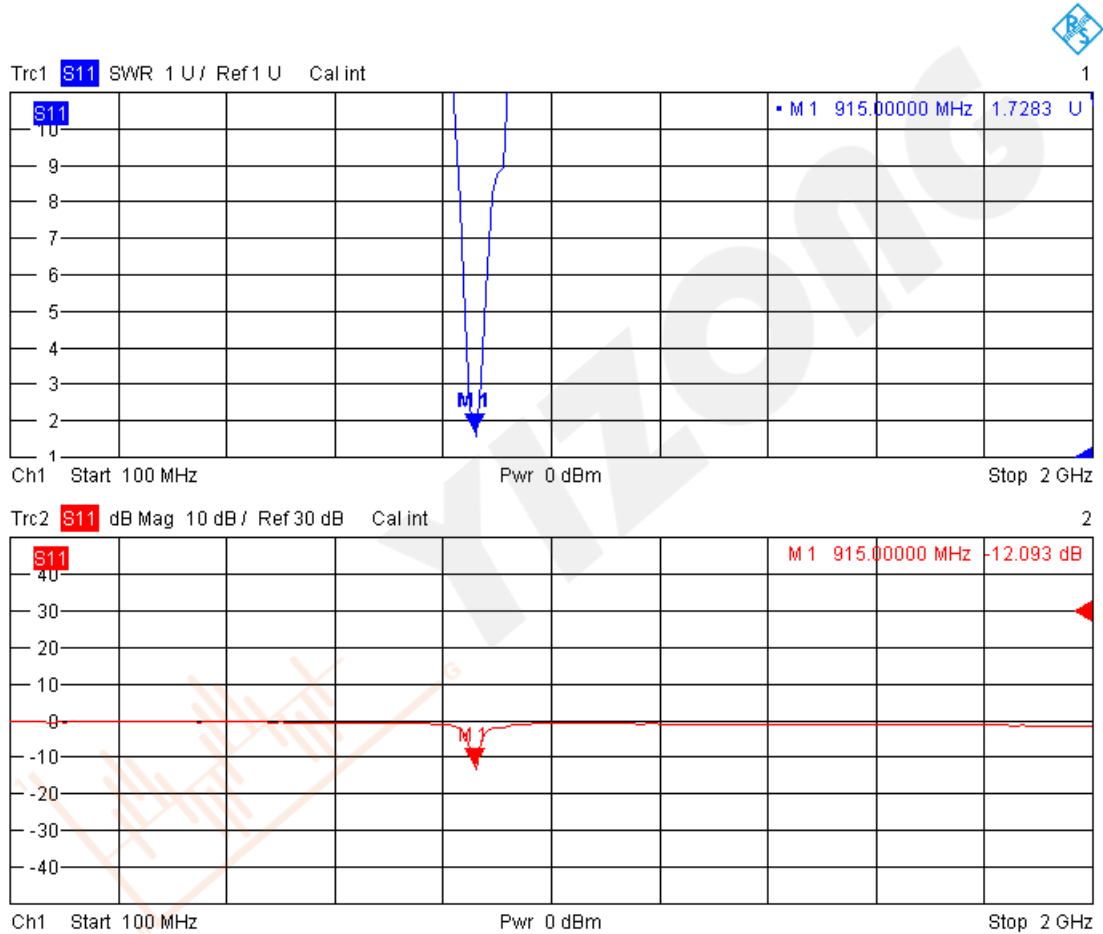
Mechanical	
Dimensions (mm)	34*11.53*4.93 mm
Material	Copper-Nickel-Zinc Alloy
Connector	Pin
Weight	0.5g

Environmental	
Operation Temperature	-40°C to +125°C
Storage Temperature	-40°C to +125°C
Maximum temperature	400°C

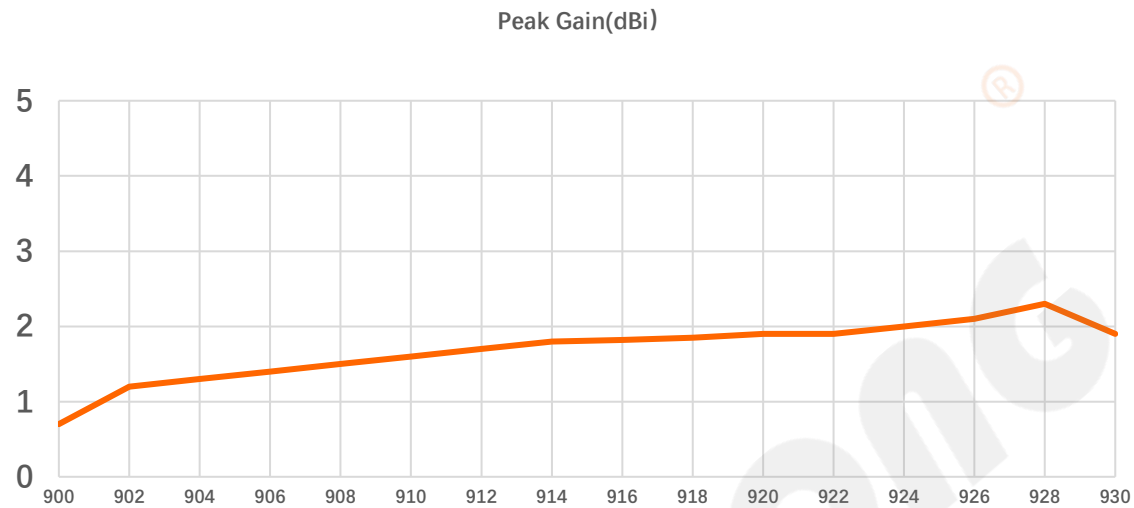
2. ANTENNA PARAMETERS

2.1 S Parameter

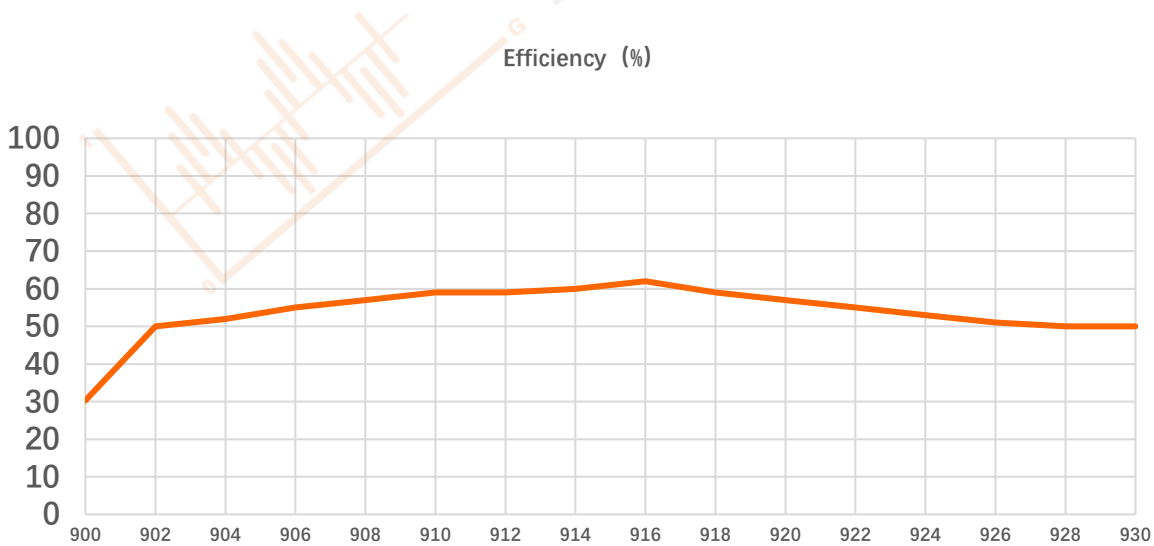




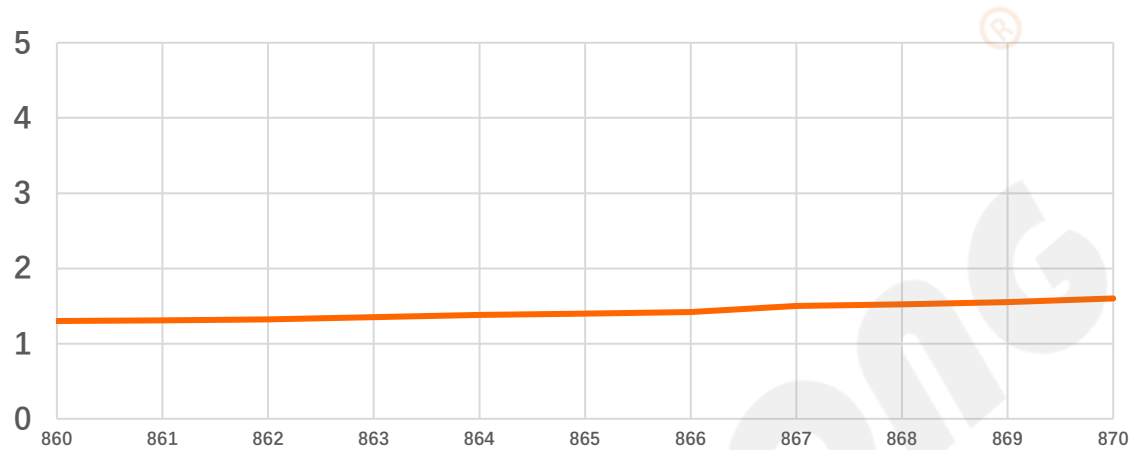
2.2 Peak Gain



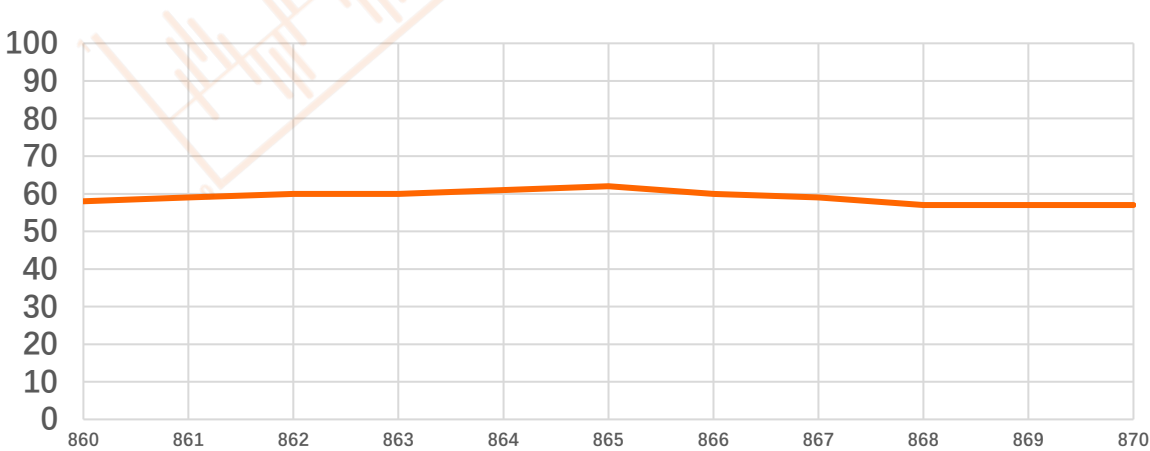
2.3 Efficiency



Peak Gain(dBi)

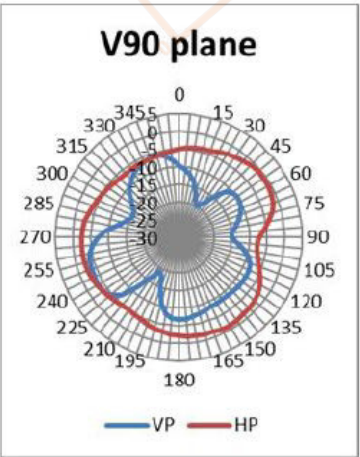
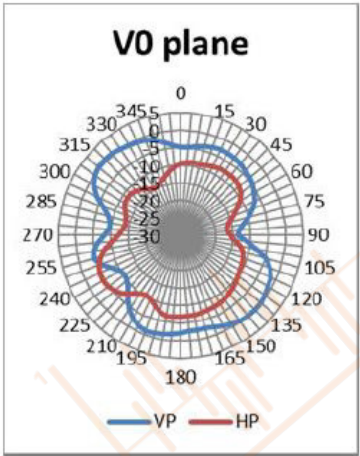
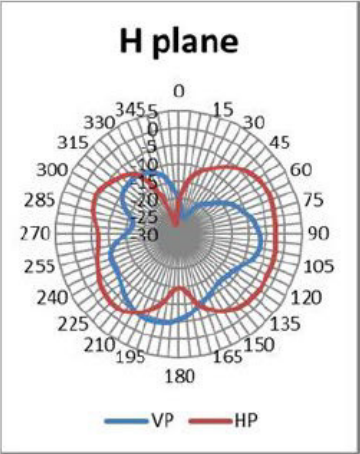


Efficiency (%)

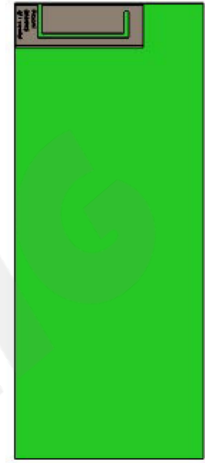


2.4 Radiation Pattern

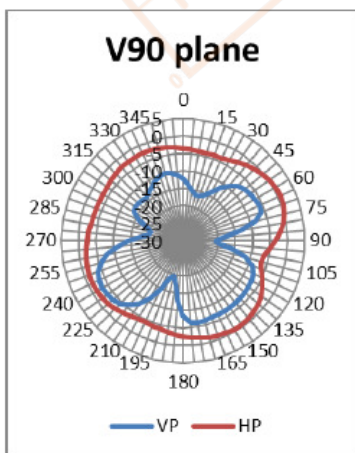
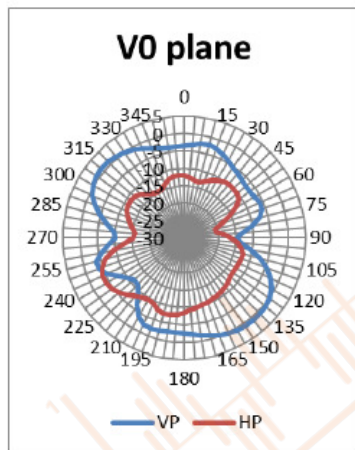
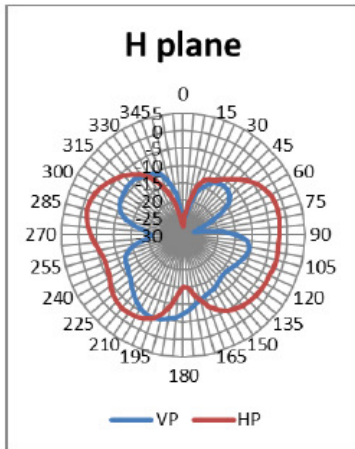
Radiation pattern, 868 MHz



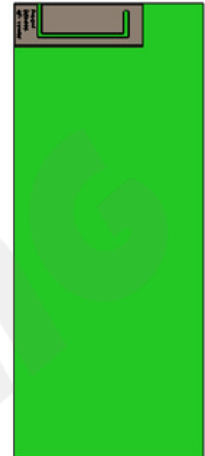
Board rotation



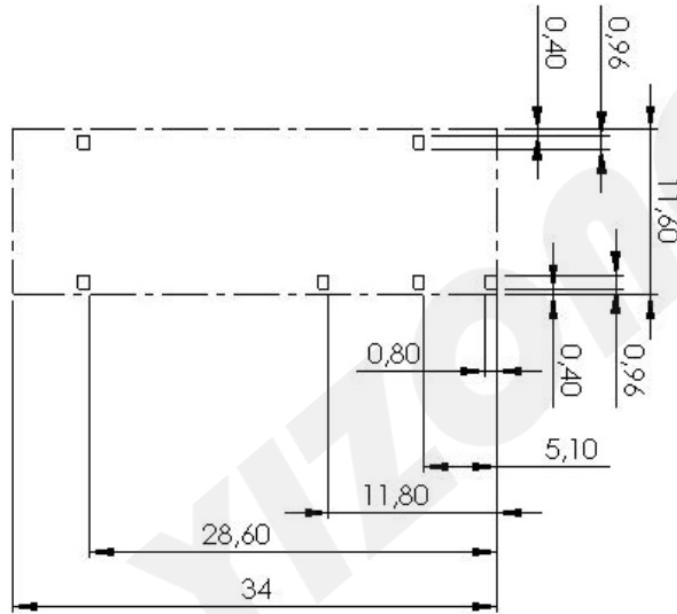
Radiation pattern, 915 MHz



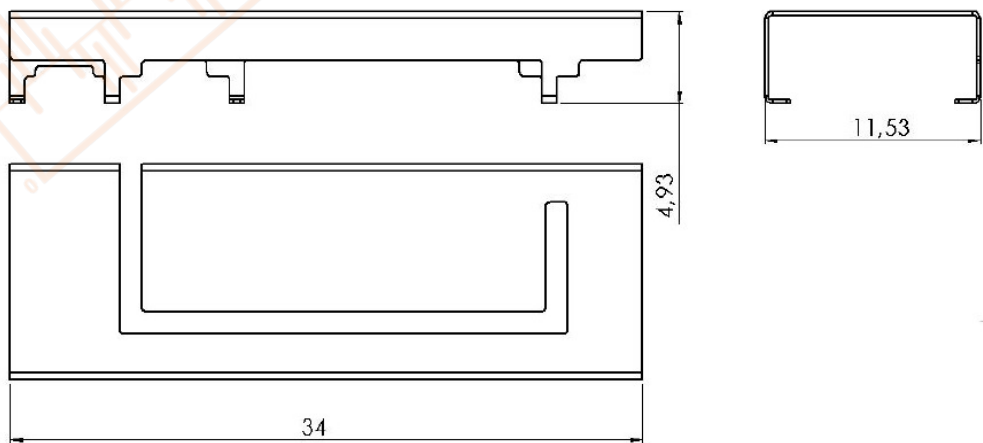
Board rotation



3. MECHANICAL DRAWING



Antenna pins and keep-out block. Above dimensions are given in millimeter.



Antenna drawing. Above dimensions are given in millimeter.