

SPECIFICATION

Part No. : **NBM0007**

Product Name : 2.4 GHz Embedded Integral Antenna

Features : WiFi/BT/ZigBee/ISM/IoT Bands

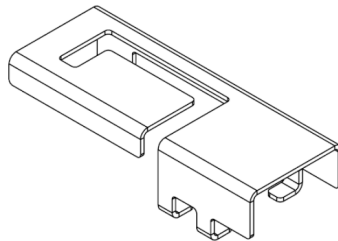
2400~2500MHz

4.9 dBi Peak Gain

13.75 x 5.23 x 3.53 mm size

High Efficiency Multi-Band SMD antenna

RoHS Compliant



2. Specifications

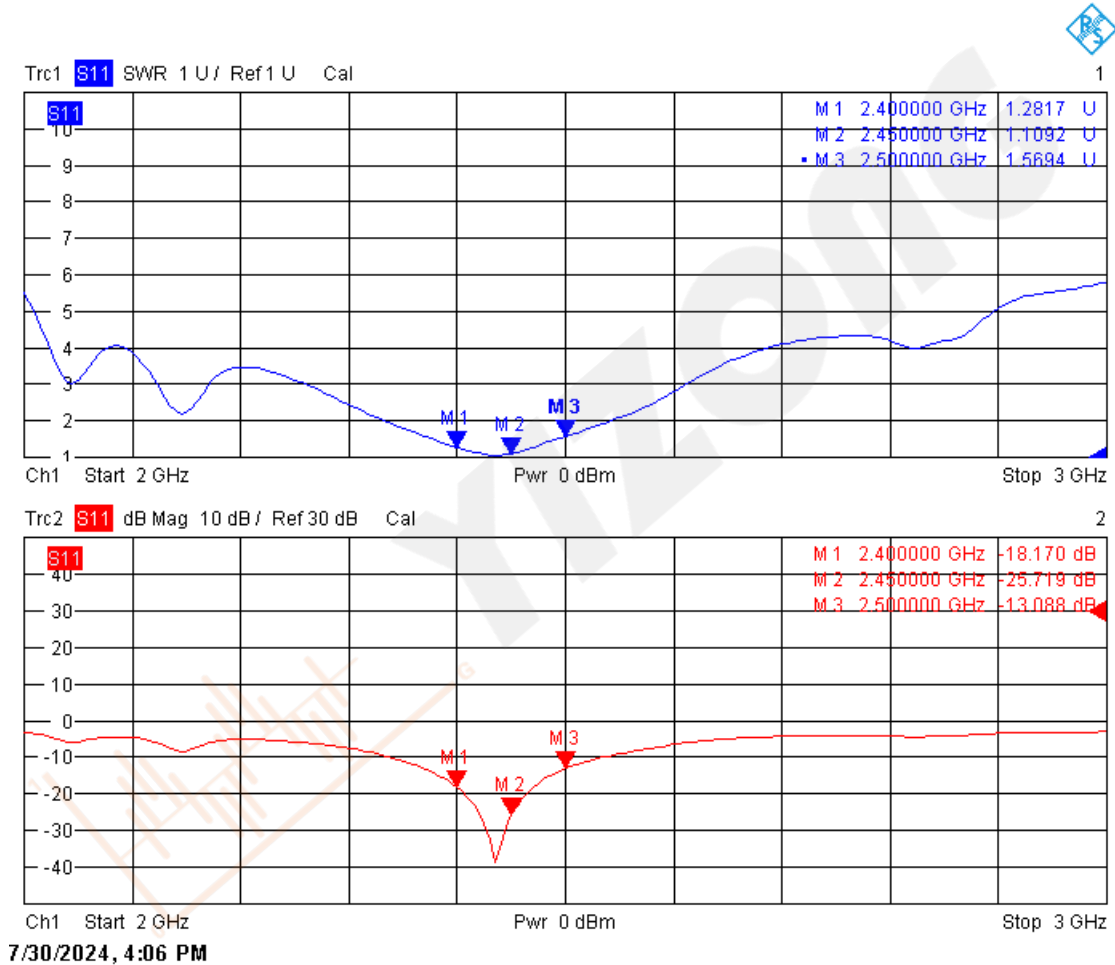
Technical data	
Frequency (MHz)	WiFi / BT / 2.4G / ZigBee
	2400~2500
VSWR	< 2.0
Return Loss (dB)	-6.9
Peak Gain (dBi)	4.9
Efficiency (%)	~65
Average Gain (dB)	-1.9
Radiation Properties	Omni-directional
Max Input Power (Watts)	5
Polarization	Linear
Impedance (Ohms)	50

Mechanical	
Dimensions (mm)	13.75*5.23*3.53 mm
Material	C7701
Soldering Type	SMT
Weight	0.5g

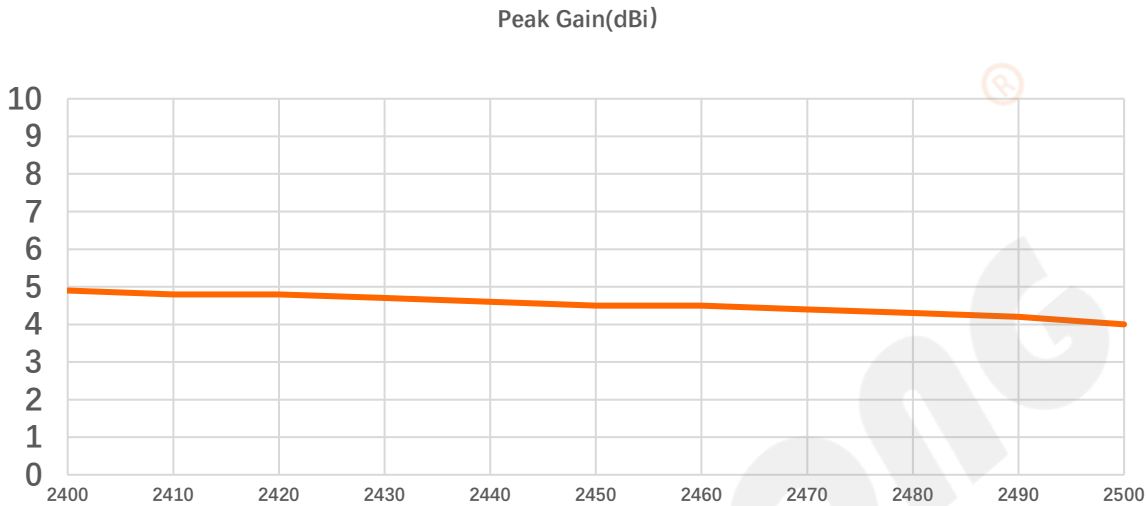
Environmental	
Operation Temperature	-40°C to +125°C
Storage Temperature	-40°C to +125°C
Maximum temperature	400°C

2. ANTENNA PARAMETERS

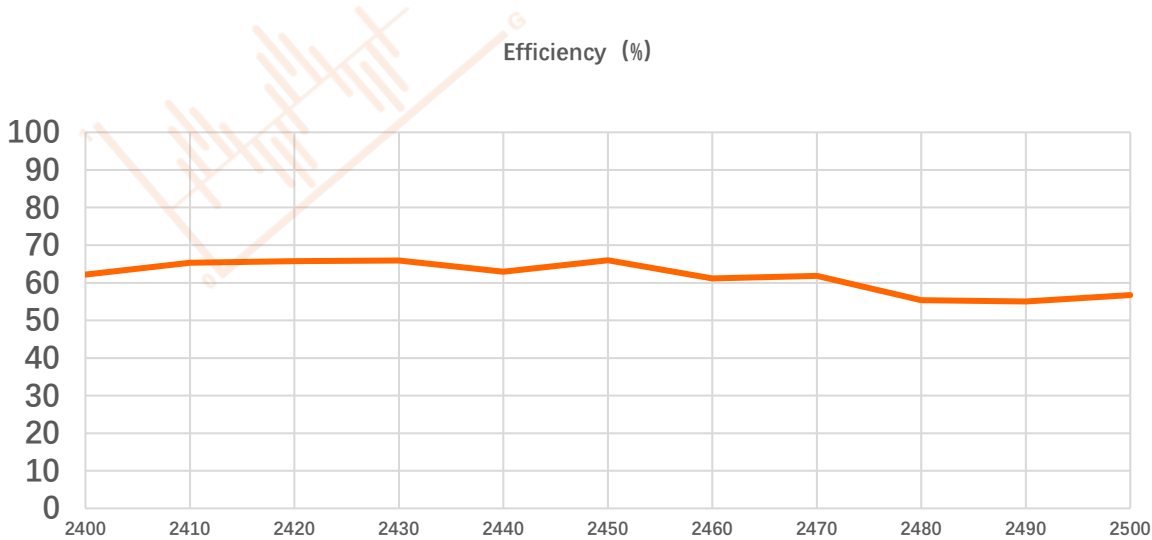
2.1 S Parameter



2.2 Peak Gain



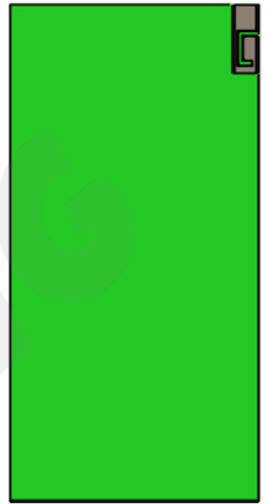
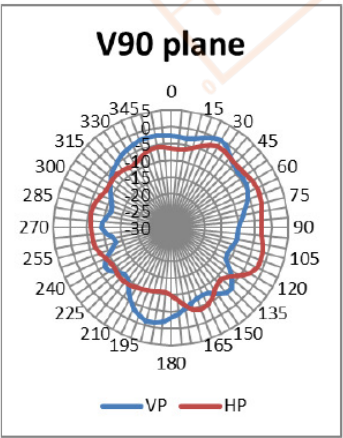
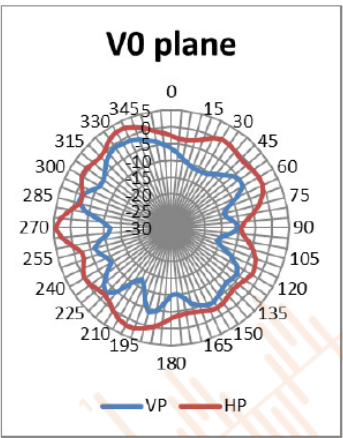
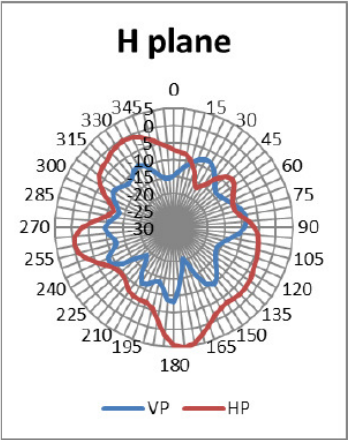
2.3 Efficiency



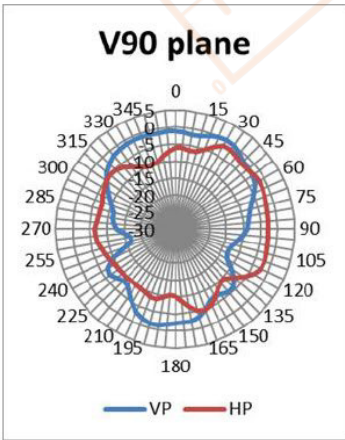
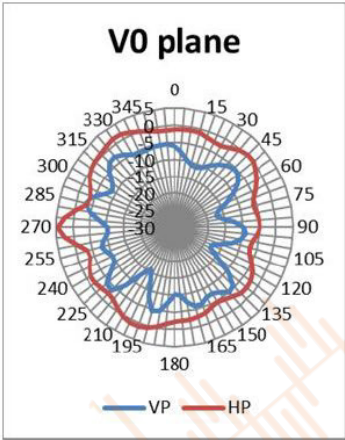
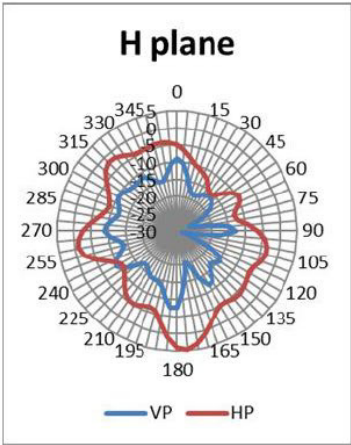
2.4 Radiation Pattern

Radiation pattern, 2400 MHz

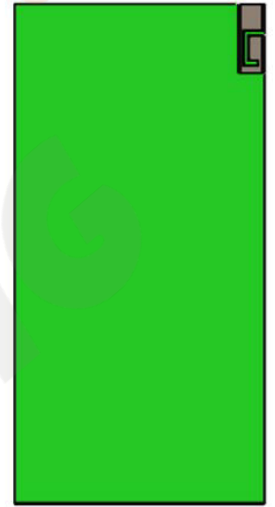
Board rotation



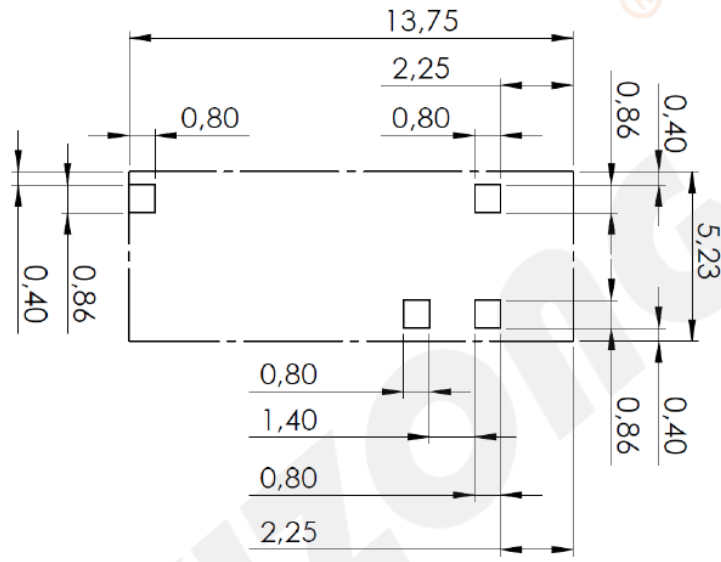
Radiation pattern, 2500 MHz



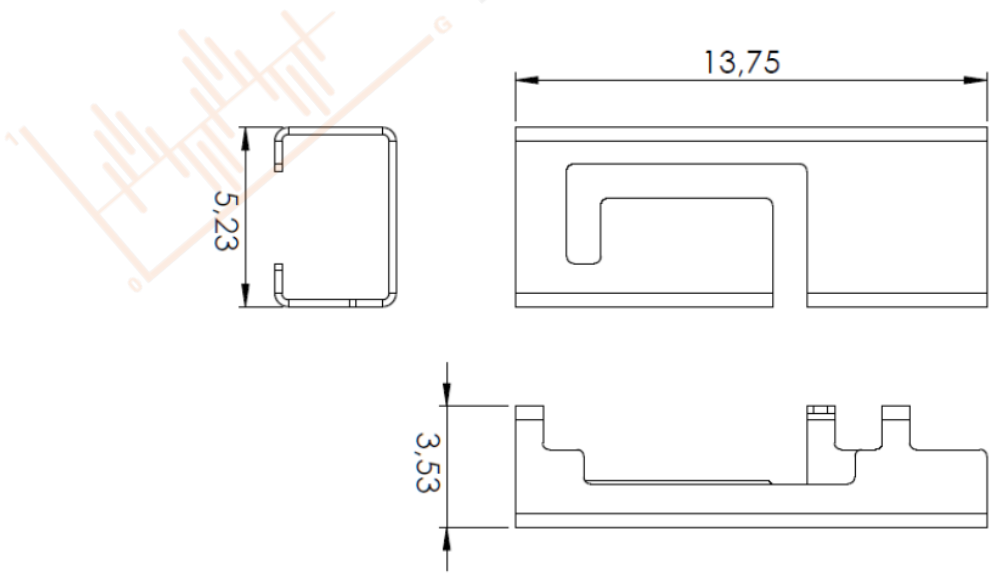
Board rotation



3. MECHANICAL DRAWING



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



Antenna drawing. Above dimensions are given in millimeter.