

# WSS003 Series---2.4GHz Swivel Type

## 1. Electrical Properties

Item	Property
Frequency Range	2.4~2.4835 GHz
Impedance	50Ω
VSWR <small>(see Fig. 1)</small>	1.5 max
Return Loss <small>(see Fig 2)</small>	-13 dB max
Gain <small>(see Fig 3, Fig 4)</small>	2 dBi (Typ.)
Polarization	Linear
Radiation Pattern	Near omni-directional in the horizontal plane
Admitted Power	1 W
Electrical	1/2 λ Dipole

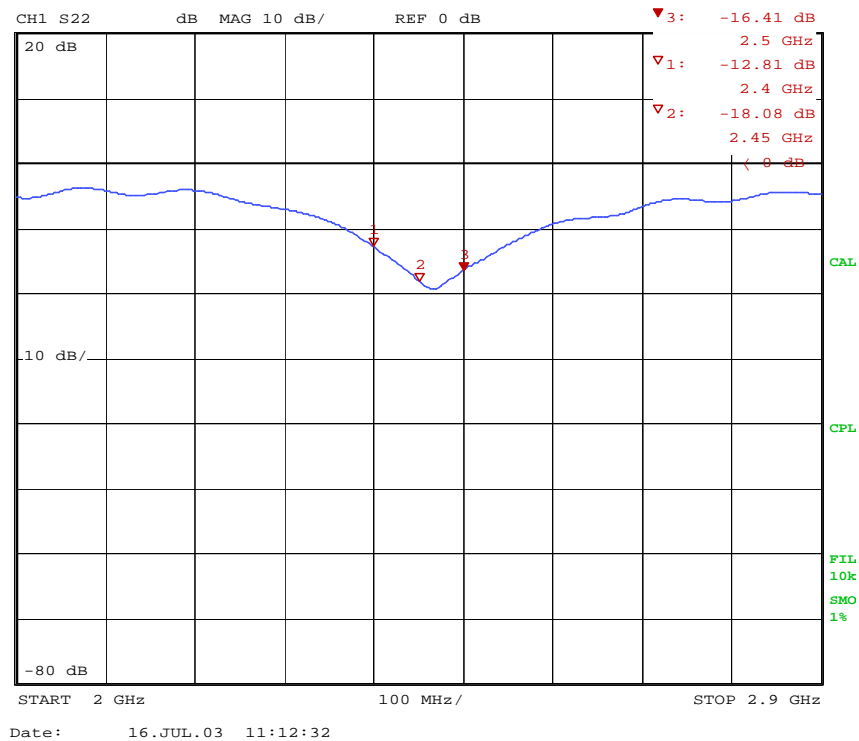


Fig 1 Return Loss For 2.4GHz

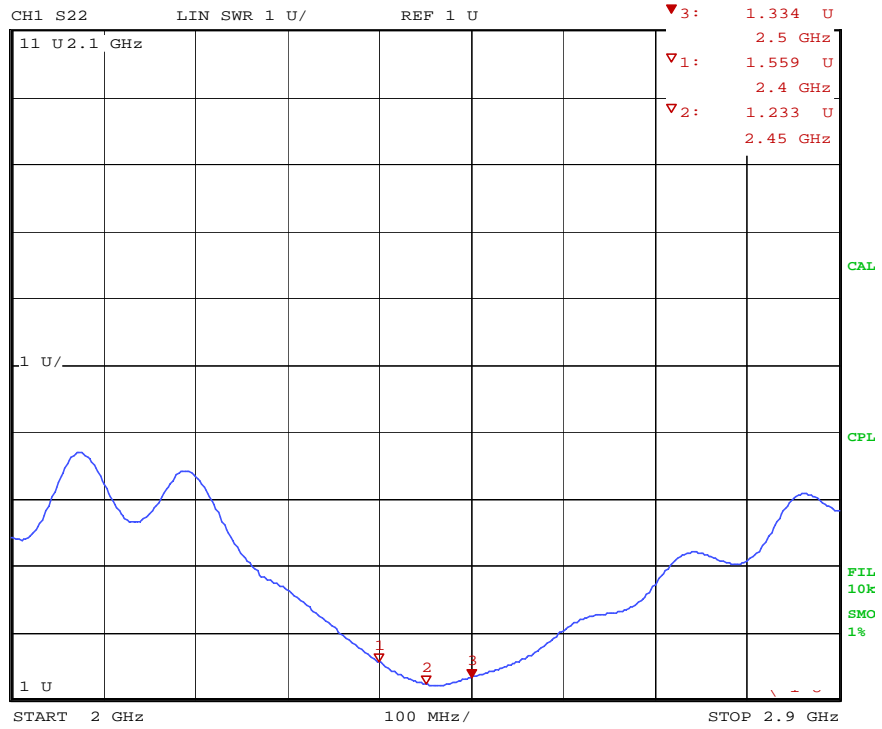
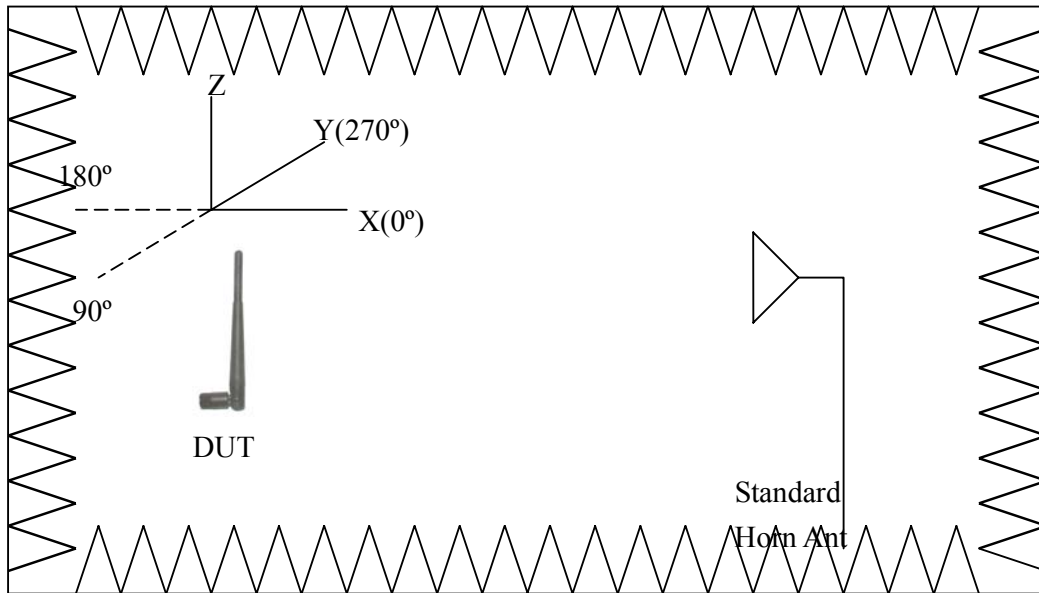
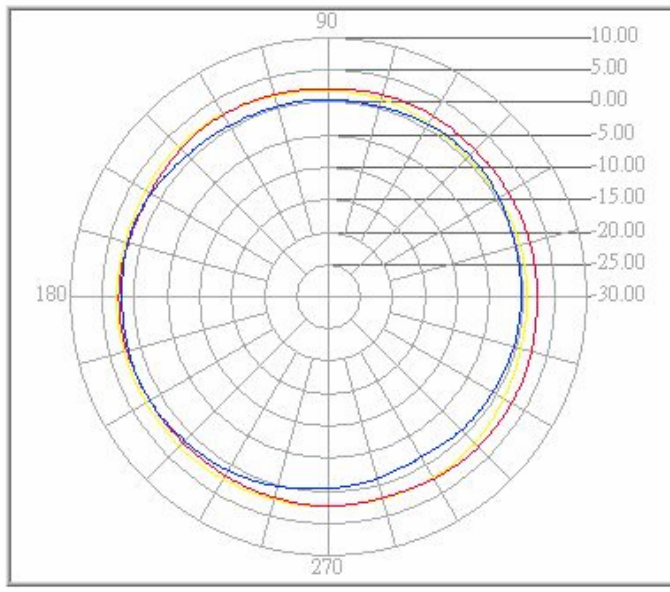


Fig 2 V.S.W.R For 2.4GHz

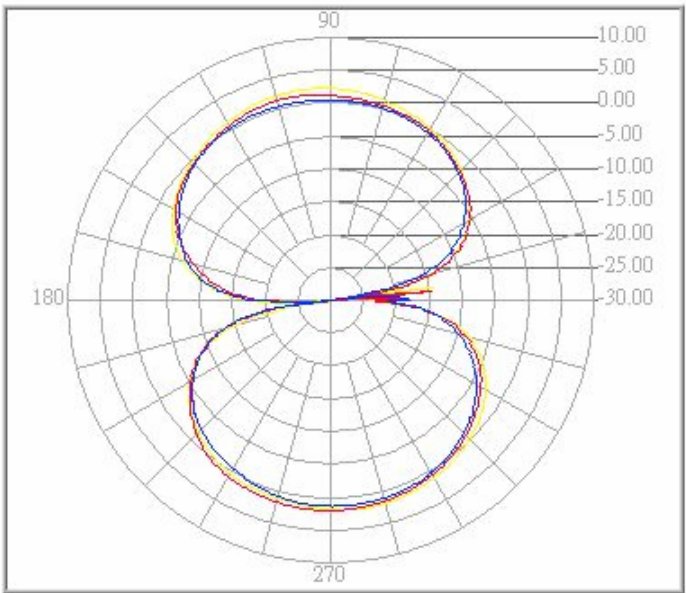


Measuring factors definition



Freq (MHz)	peak(dBi)	Angle(o)	Avg(dBi)
2400.00	2.89	136.47	2.03
2450.00	2.84	323.57	2.30
2490.00	2.21	163.64	0.67

Fig.3 H-Plane



Freq (MHz)	peak(dBi)	Angle(o)	Avg(dBi)
2400.00	2.36	97.11	-0.89
2450.00	2.06	265.36	-1.23
2490.00	1.37	272.16	-1.85

Fig.4 E-Plane

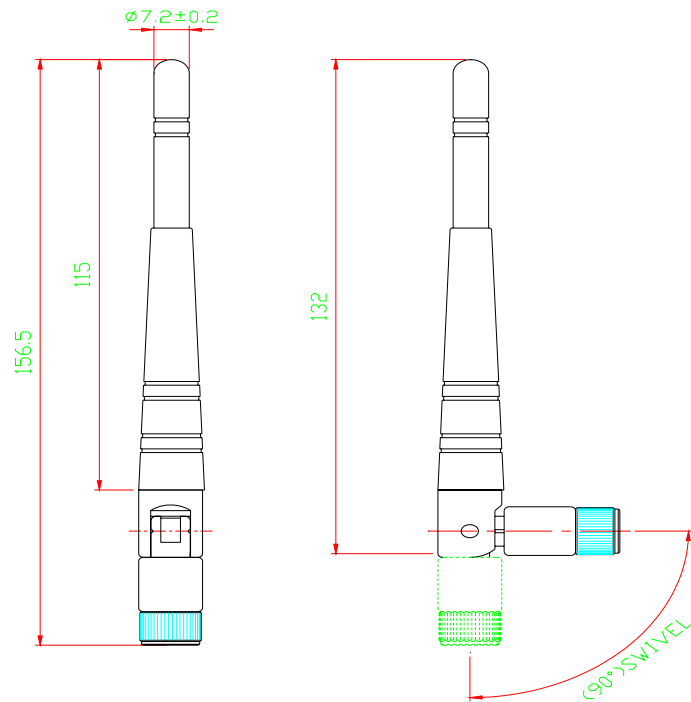
## 2. Mechanical Properties

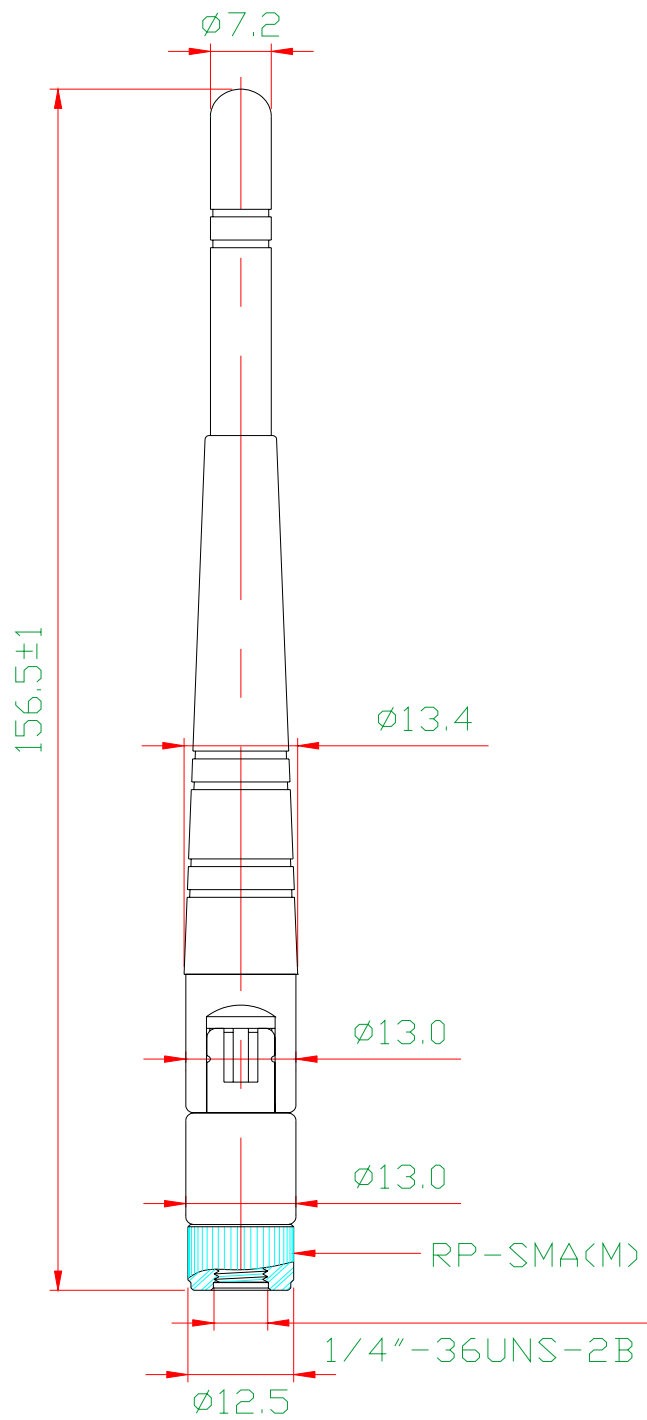
Item	Property
Color	Black/Gray
Coaxial-Cable	RG-178
Plastic Cover	TPU
Antenna Base	PC
Connector	SMA/TNC/BNC

Operation Temperature : -20~+65°C

Storage Temperature : -20~+65°C

## 3. Physical Dimensions





It is 3mm by mechanically and maximum 5mm receptacle depth while mounting w/ the coupler