

Portable Omni Directional Antenna for 2.4 GHz

Product Number : SA2-05002-15H5



SmartAnt R&D Department
Jan,05 2004

Specifications

Applicable Standard

Item	Requirements
Frequency Range	2400 MHz ~ 2500 MHz
Characteristic Impedence	50 ohm
Cable Type	<i>SHIKOKU</i> 1.5 DS-QEHV(TA)
Connector Type	<i>HIROSE</i> MS 151 Series
Cable Length	1.5 meter
Power Handling	2 W (cw)

Electric Specifications

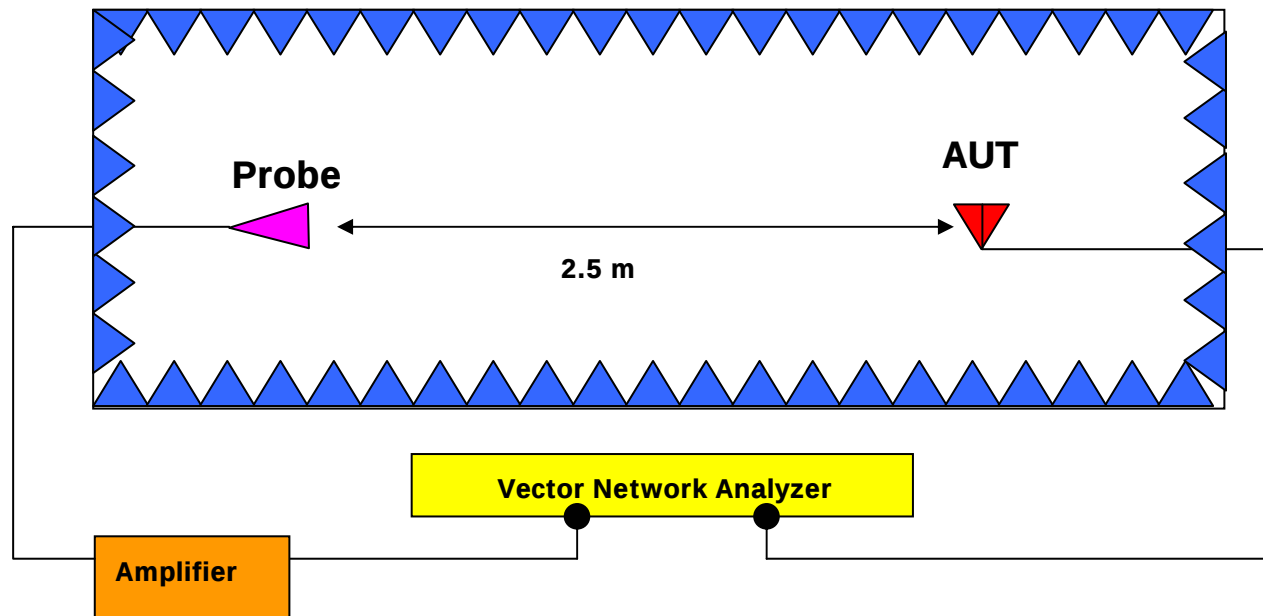
Item	Test Method	Requirements
VSWR	Tested by Vector Network Analyzer	2.0 Max
Antenna Gain	Tested by SmartAnt Anechoic chamber	1 dBi min
HPBW/Horizontal	Tested by SmartAnt Anechoic chamber	360 ⁰
HPBW/Vertical	Tested by SmartAnt Anechoic chamber	40 ⁰

Environmental & Mechanical Specifications

Item	Test Method	Requirements
Dimensions	Tested by measuring instrument	According the Drawing
Temperature	Tested by SmartAnt indoor standard (Refer to IEC/MIL standard)	-10 ⁰ C ~ 55 ⁰ C
Humidity	Tested by SmartAnt indoor standard (Refer to IEC/MIL standard)	95 % at 25 ⁰ C
Weight	Tested by measuring instrument	0.1Kgw

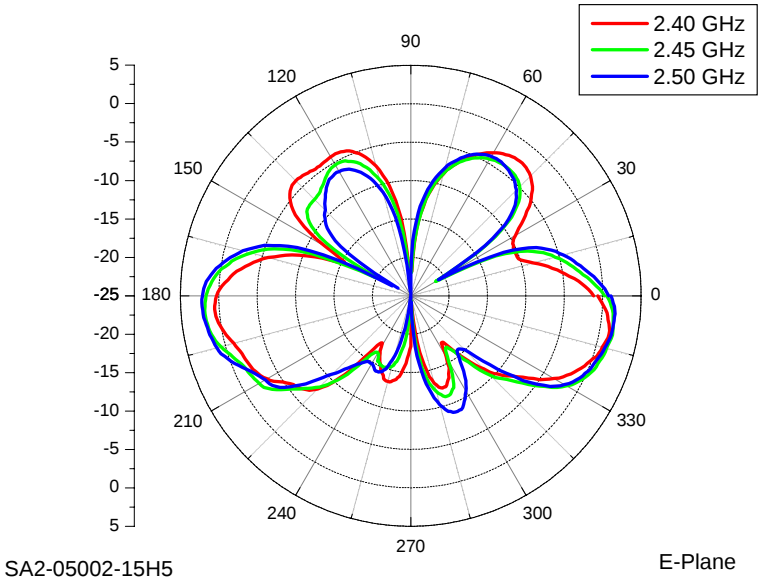
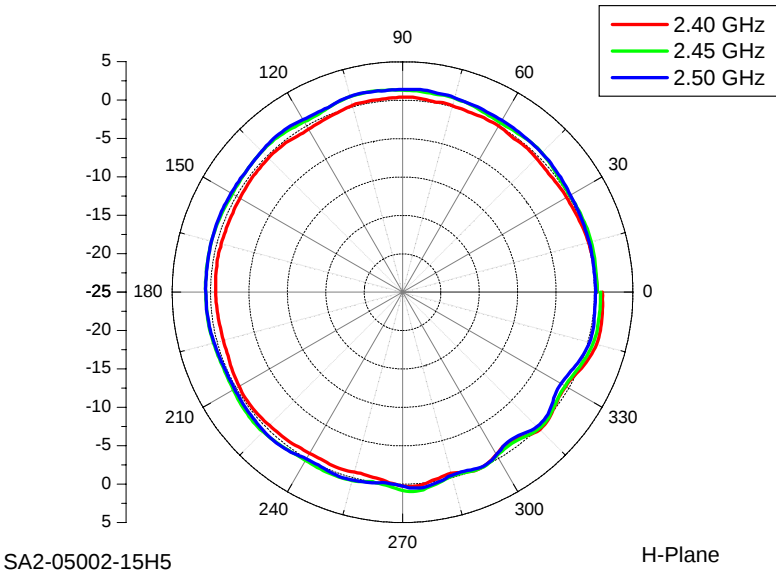
Chamber Information

Vector Network Analyzer	HP 8722D 30 KHz ~ 40 GHz
Standard Gain Horn	EMCO Model 0043 1.7GHz ~ 2.6GHz
Probe	EMCO Model 3115 Double Ridged Guide Antenna
Anechoic Chamber	ANTCOM NFH Hybrid Near/Far Field System
Height Between Ground and AUT	1.9 meter
Distance Between Probe and AUT	2.5 meter



Gain Table

Frequency (GHz)		2.4	2.45	2.5
H-Plane	Peak Gain (dBi)	1.23	1.44	1.46
	Average Gain (dBi)	-0.19	0.53	0.44
E-Plane	Peak Gain (dBi)	1.3	1.89	2.2
	Average Gain (dBi)	-4.86	-4.28	-4.17



V.S.W.R.

