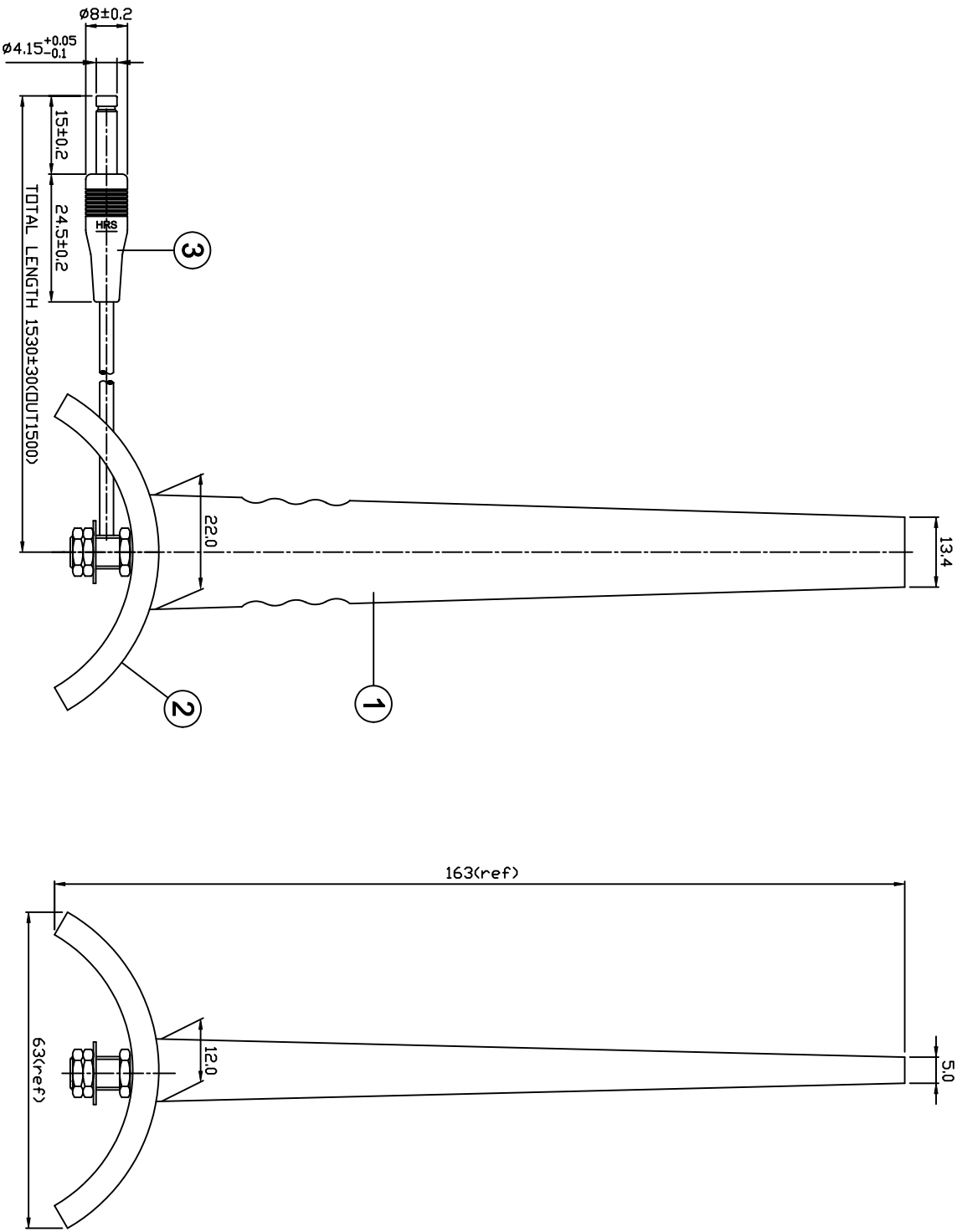


Portable Omni Directional Antenna for 2.4 GHz

Product Number : SA2-05002-15H5



SmartAnt R&D Department
Jan,05 2004



GENERAL TOLERANCE RANGE

☐ PCB(电路板)	±1MIL
☒ MACHINING(加工件)	X=±0.4 X.X=±0.2 X.XX=±0.1
☐ STAMP(冲製件)	X=±0.6 X.X=±0.3 X.XX=±0.1
☒ INJECTION(射出件)	X=±0.5 X.X=±0.25 X.XX=±0.1
☐ CASTING(鑄件)	X=±1 X.X=±0.5 X.XX=±0.15
☐ PACKING(包材)	X=±6 X.X=±3 X.XX=±1
☒ ASSEMBLY(組件)	X=±2 X.X=±1 X.XX=±0.5

ANGLES: X=±2° X.X=±1° X.XX=±0.5°

LTR	REV. RECORD	DR	APVD
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3	SILVER	MS151MP-15V1550(12)+ULA316*1.5M	1
2	IVORY	5MM GLASS BASE	1
1	ANTENNA BODY		1
ITEM	COLOR	DESCRIPTION	QTY
Surface Treatment			
MTL			
DRAWN			
ENGR			
APVD			
SCALE 4:4			
UNIT mm			
DWG.NO			
SA2-05002 FOR INTEL			
DRAW TITLE			
SmartAnt SmartAnt Telecomm Co. Ltd.			
SmartAnt 震波科技股份有限公司			

◎ Specifications

Applicable Standard

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

Electric Specifications

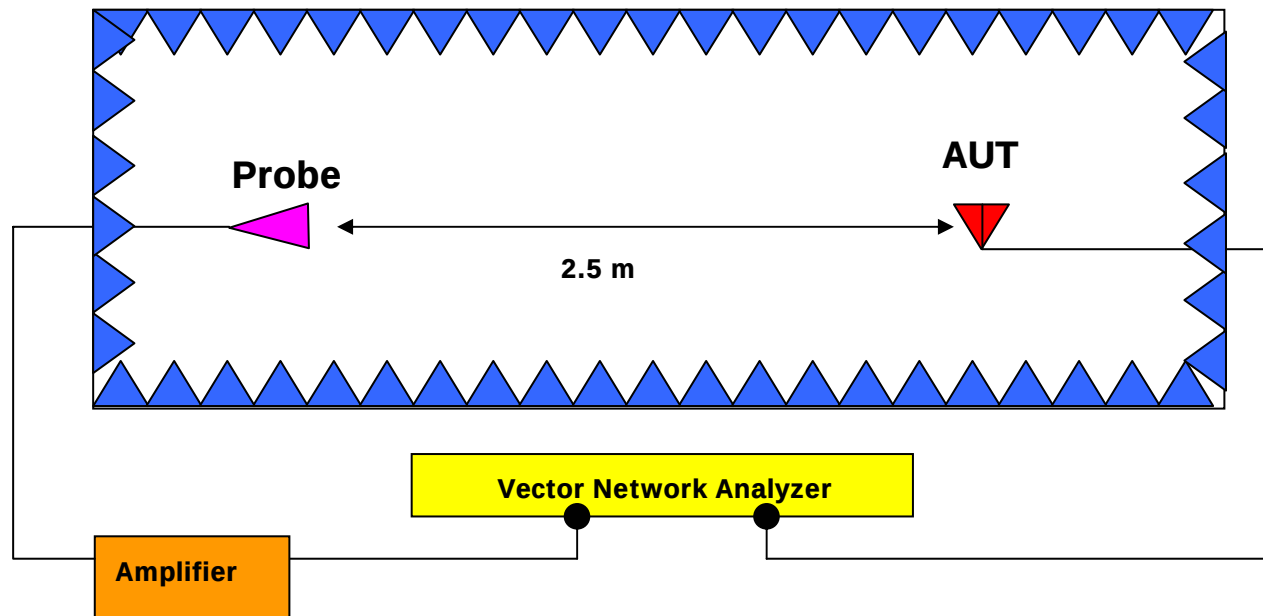
Item	Test Method	Requirements
VSWR	Tested by Vector Network Analyzer	2.0 Max
Antenna Gain	Tested by SmartAnt Anechoic chamber	1 dBi min
HPBW/Horizontal	Tested by SmartAnt Anechoic chamber	360 ⁰
HPBW/Vertical	Tested by SmartAnt Anechoic chamber	40 ⁰

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

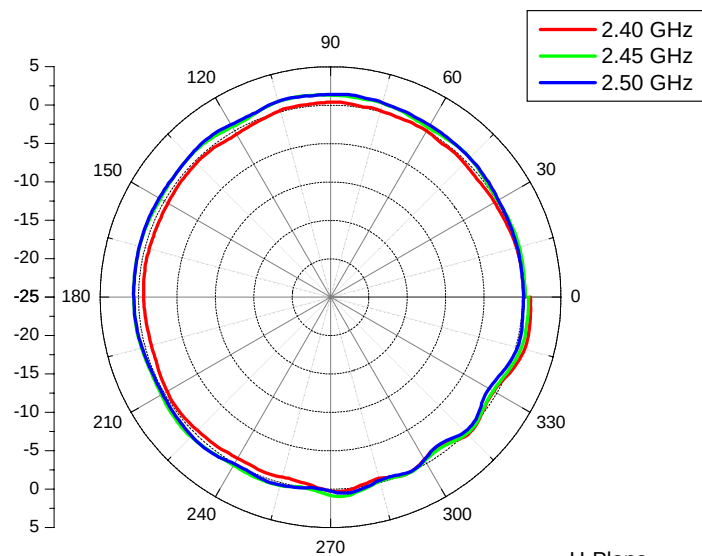
© Chamber Information

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



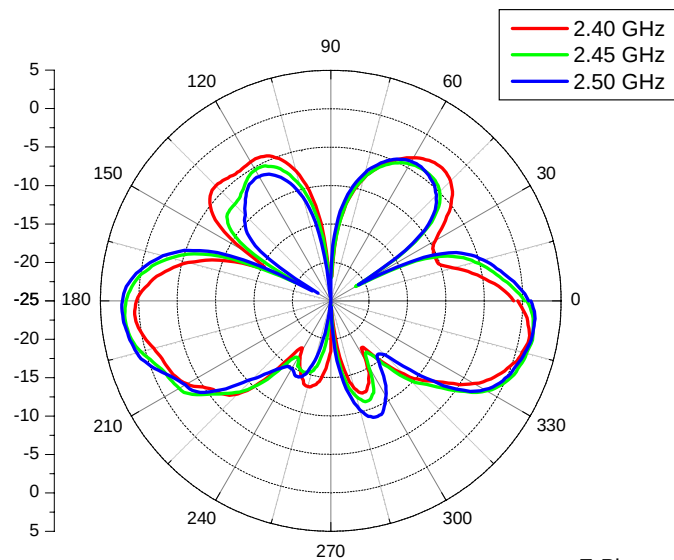
© Gain Table

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



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H-Plane



SA2-05002-15H5

E-Plane

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