

The Antenna Anechoic Chamber Dimension is 8*4*4.

1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 48 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	48 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	48 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%



Product Number: AN2400-9101RS
Product Name: 2.4 GHz External Antenna

4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

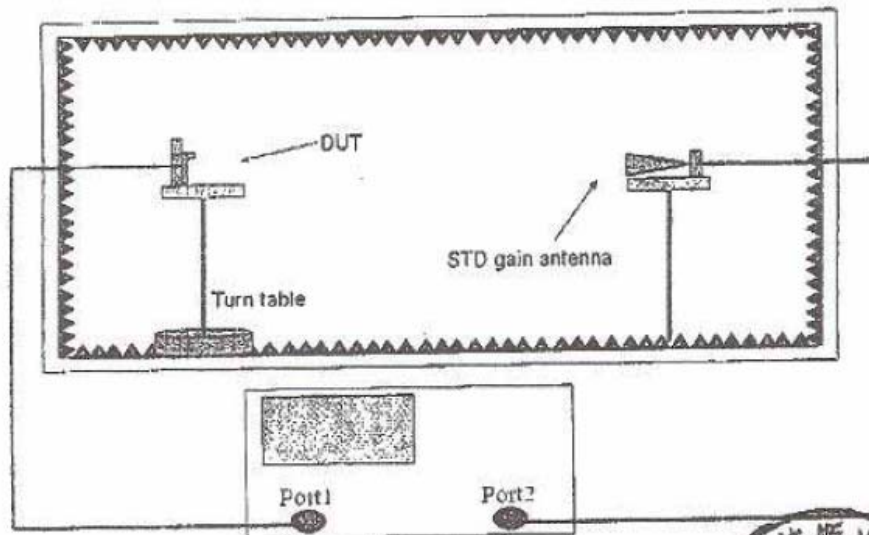
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

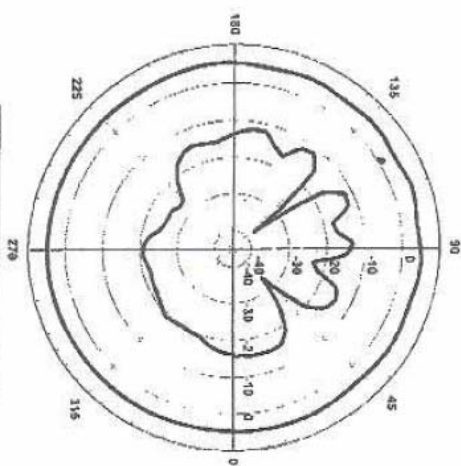
Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



2450MHz

H-Plane

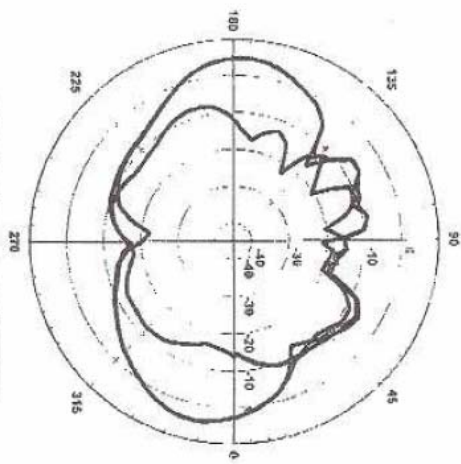


Ver. Pol. (max.)=	5.4
Ver. Pol. (avg.)=	4.9
Hor. Pol. (max.)=	-11.9
Hor. Pol. (avg.)=	-16.6
Tol. Gain (max.)=	5.4
Tol. Gain (avg.)=	4.9

Unit: dBi



E-Plane



Ver. Pol. (max.)=	-7.6
Ver. Pol. (avg.)=	-12.3
Hor. Pol. (max.)=	4.8
Hor. Pol. (avg.)=	-1.8
Tol. Gain (max.)=	4.8
Tol. Gain (avg.)=	-1.7

Unit: dBi

Coaxial Cable Datasheet

RG-178 Coaxial Cable Specification		
1. Cable Type	MIL – C – 17 / RG-178	
2. Impedance	50 ± 3 ohm	
3. Inner Conductor	Material	silver-coated copper
	Conductor Numbers	7
	Conductor Size	0.102 mm
	Outer Diameter	0.3 mm
4. Dielectric Layer	Material	FEP
	Color	Clear
	Average Thickness	0.28 mm
	Diameter	0.86 mm
5. Braid (Shielding)	Material	silver-coated copper
	Construction	16-3-0.1 mm
	Coverage	95 %
6. Outer Cover	Material	FEP
	Color	Brown
	Average Thickness	0.25 mm
	Diameter	1.80 ± 0.05 mm
7. V.S.W.R Testing	< 1.3 (DC ~ 6.0 GHz)	
8. Attenuation (dB / 100 meter)	100 MHz	46
	900 MHz	155
	1800 MHz	295
	2400 MHz	340
	5200 MHz	505
	6000 MHz	550
9. Capacitance	97 ± 3 (pF / meter)	
10. Maximum Power	30 dBm	
11. Spark Test	2.0 KV	
12. Rating Temp. and Volt.	200°C / 30V	
13. Conductor Resistance	335 ohm / KM / 20°C max.	
14. Dielectric Resistance	3 G ohm / KM / 20°C min.	

