88339

EAN 4043619883394

SMA WLAN Antenna with flexible joint

Description

This Wireless Lan antenna can be connected to your WLAN device with SMA connector in order to receive a signal.

Specification

- SMA screw connection
- With flexible joint
- 2dBi Gain

Package content

- WLAN antenna

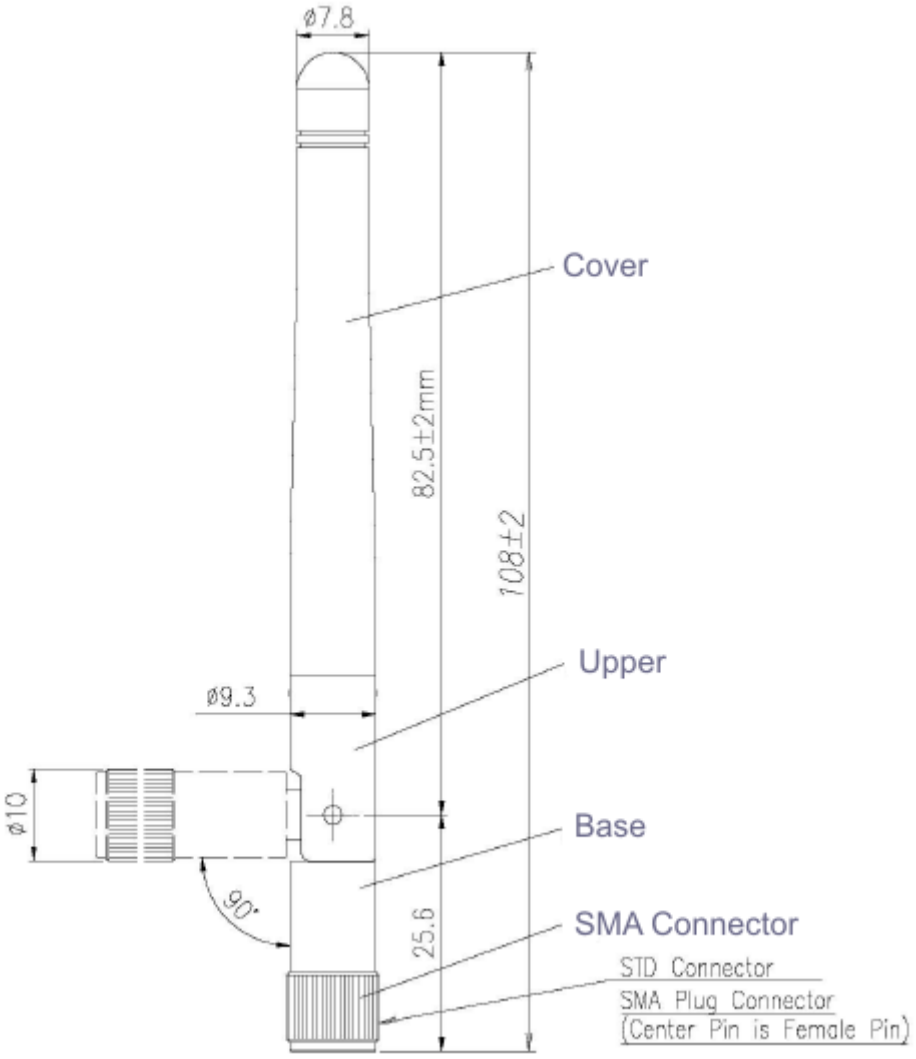
Package

- Delock blister package

Environmental Characteristics

Operation: -20 ~ +65 °C
Storage: -30 ~ +75°C

Technical drawing

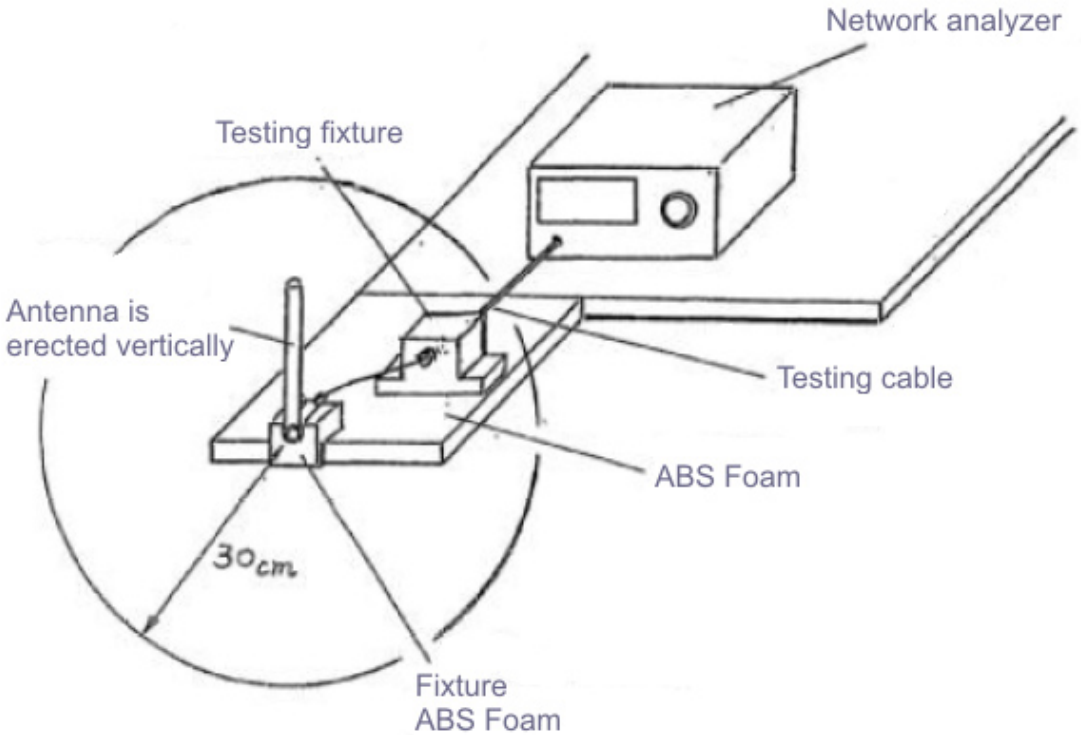


1. Test Condition

T = 5 ~ 35 °C; Humidity = 45 ~ 85%; Atmosphere = 860 ~ 1060 hpa

ITEM	TEST CONDITION	SPECIFICATION
Mechanical Performance		
Vibration	Ratio: 10-50-10 Hz/minute Vibration amplitude:1.5 mm To vibrate 2 hrs on X,Y,Z direction(Totally 6 hrs)	No abnormal of appearance, construction, mechanical.
Tensile of Coaxial minute	To load 1Kgf weight within 1	No fall of Coaxial cable. Remarks: This test only for pigtail type.
Electrical Properties		
VSWR	To detect on free space. (VSWR & Return Loss testing to read next figure for ref.)	2.0 at 2.4~2.5GHz
Return Loss		-10 dB at 2.4~2.5GHz
Impedance		50Ω nominal
Directional		Omni
Max GAIN		2.0dbi at 2.4GHz

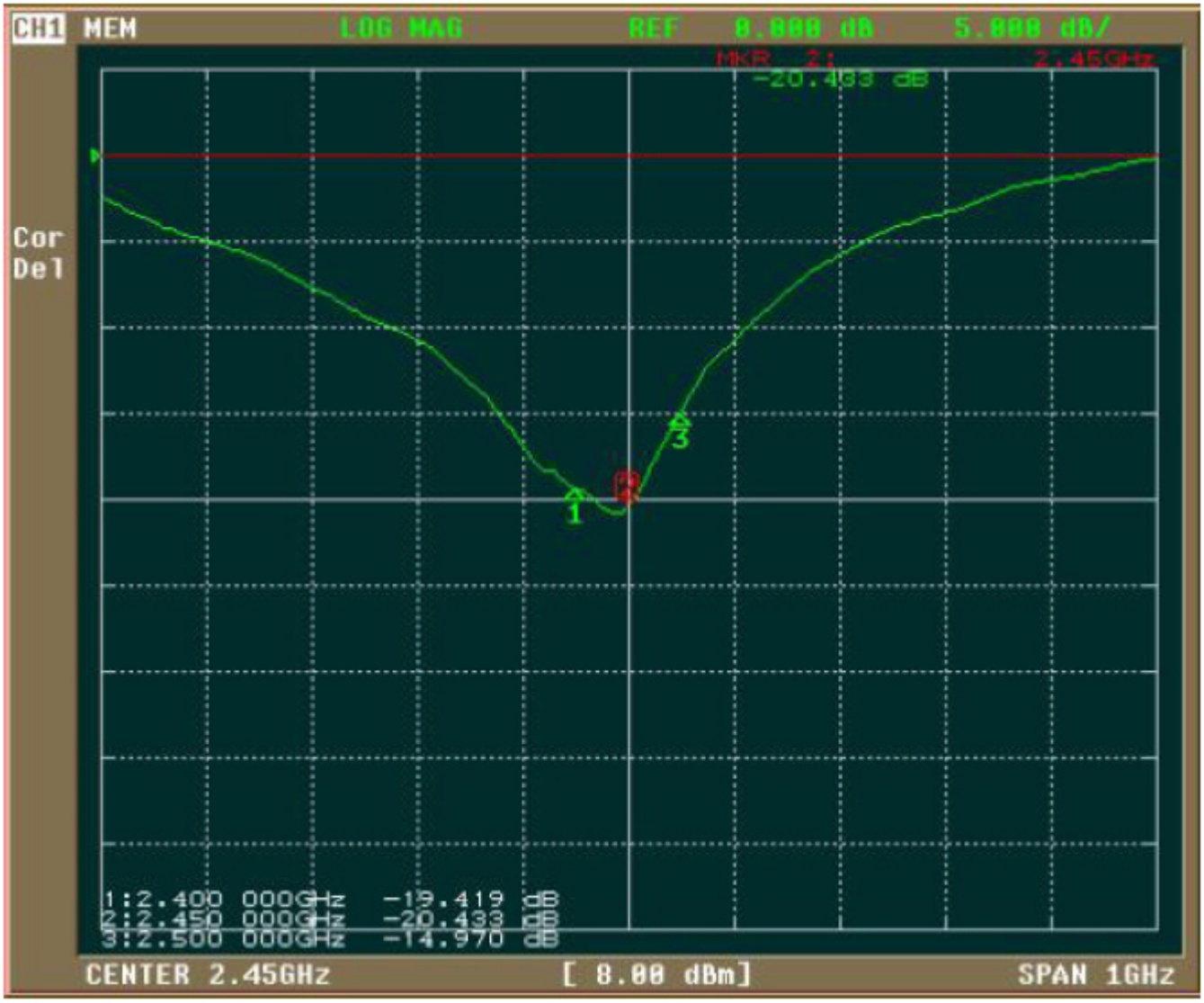
Environmental Performance		
Temperature Life	To put antenna at 60±2°C within 96 hrs then take it out to put at normal environment within 1 hour later to detect.	No abnormal of appearance, construction, mechanical.
Cold Life	To keep in -10±2°C within 96hrs and take out to put at normal environment within 1 hour later to detect.	
Humidity Stable	To keep in +40±2°C , damp=90~95% within 96 hrs and take it out to put at normal environment within 1 hour later to detect.	
Thermal Shock	To put antenna at -20°C & +60°C and each degree for 1 hour as a cycle, totally need to re-peat 10 cycles then put at normal environment within 1 hour later to detect.	



2. Test result:

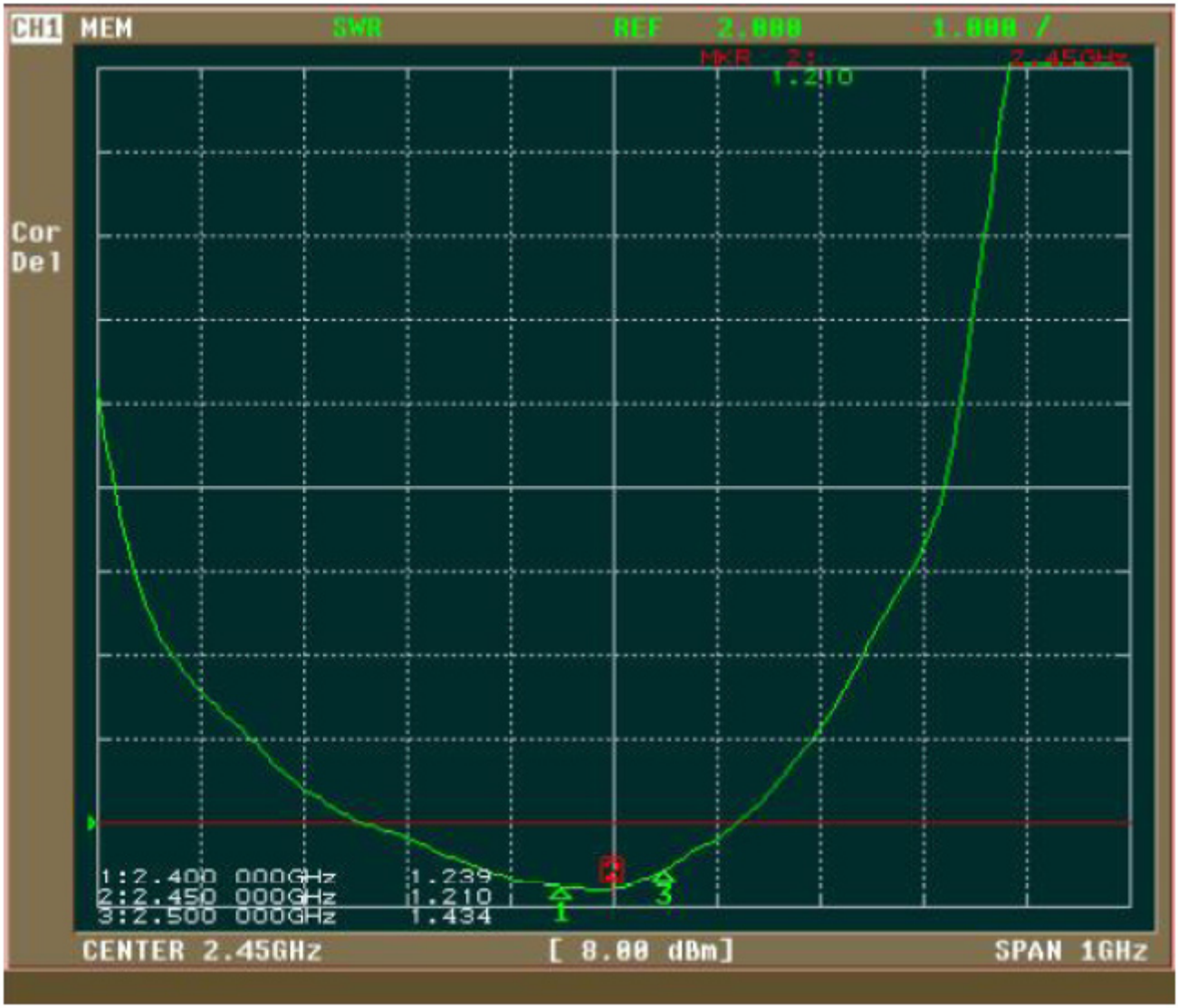
1. Return Loss

Antenna	Center Freg. MHz	BW MHz	Return Loss		
			2.4 GHz	2.45 GHz	2.5 GHz
	2450	100	-19.419	-20.433	-14.970



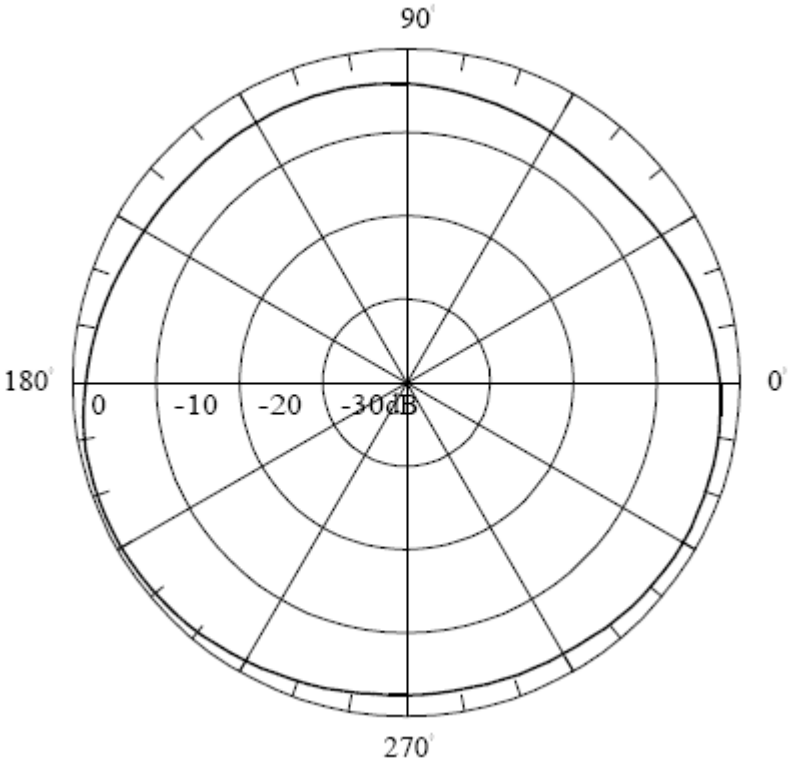
2. VSWR

Antenna	Center Freg. MHz	BW MHz	VSWR		
			2.4 GHz	2.45 GHz	2.5 GHz
	2450	100	1.239	1.210	1.434

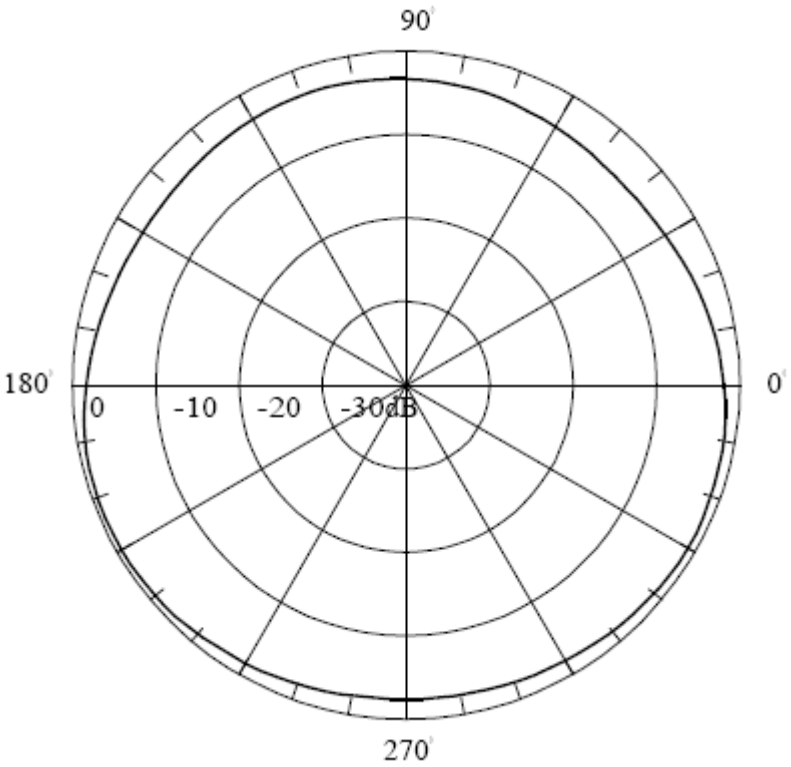


3. Radiation Pattern: E-Plane

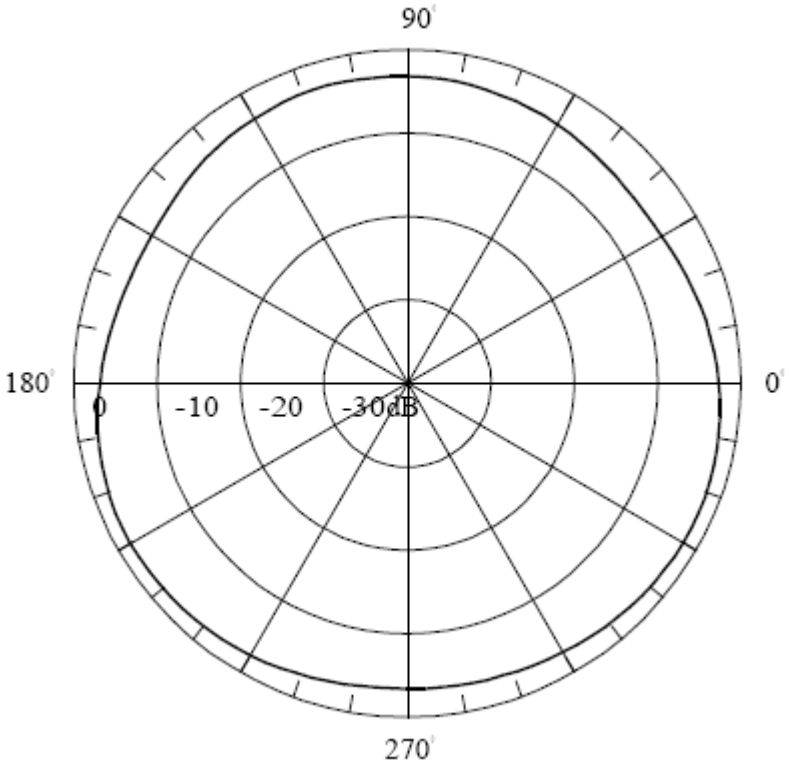
X-Y Plane
2400-2500 MHz
H-Plane
2400 MHz
-49.5 dBm
-0.5 dBd (1.6 dBi)
-2.7 dBd



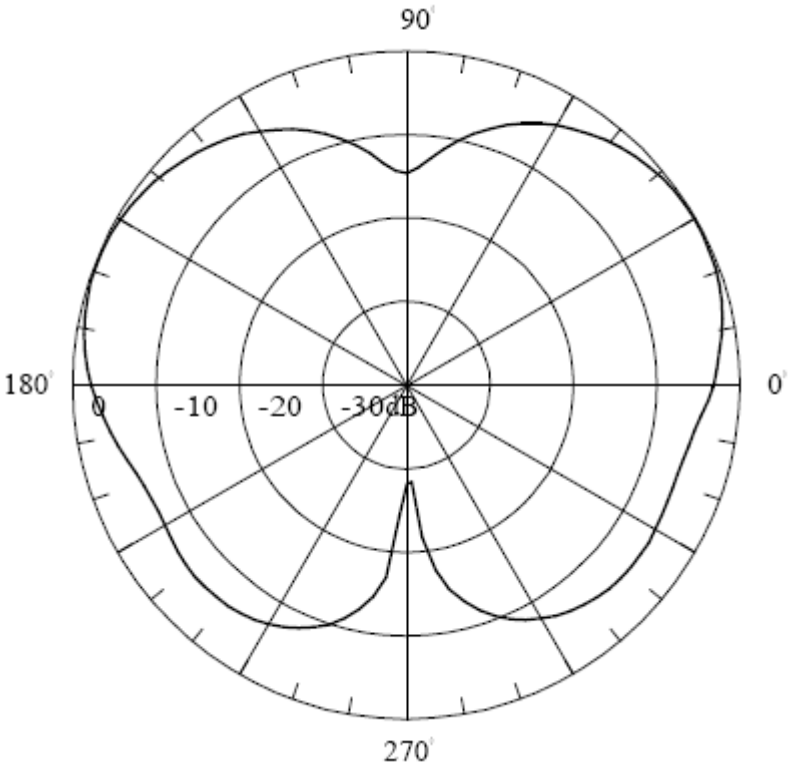
X-Y Plane
2400-2500 MHz
H-Plane
2450 MHz
-50.0 dBm
-0.6 dBd (1.6 dBi)
-2.3 dBd



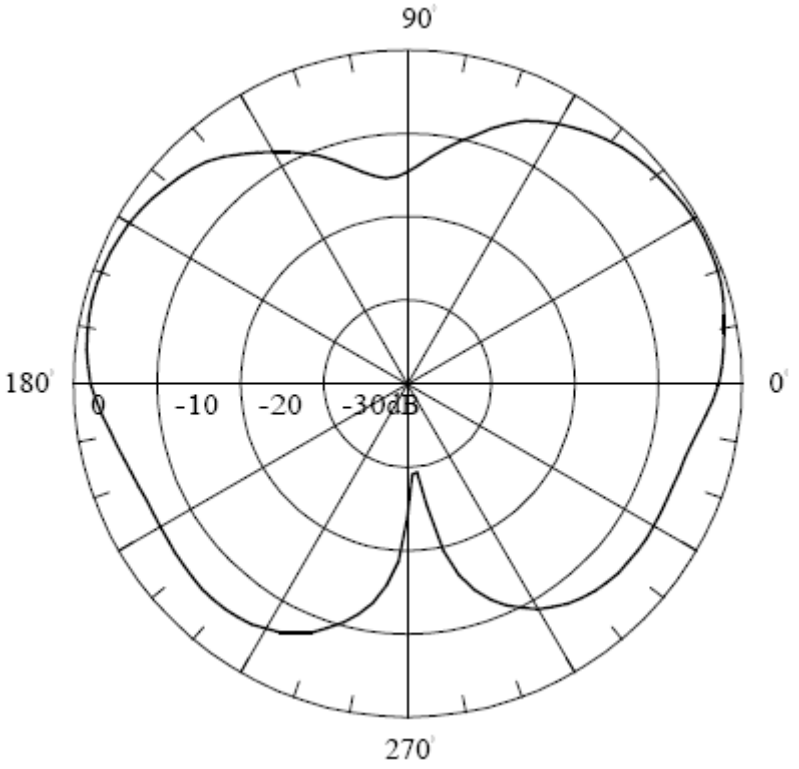
X-Y Plane
2400-2500 MHz
H-Plane
2500 MHz
-50.2 dBm
-1.6 dBd (0.5 dBi)
-3.0 dBd



4. Radiation Pattern: H-Plane
E-Plane
2400-2500 MHz
E-Plane
2400 MHz
-49.5 dBm
-0.1 dBd (2.0 dBi)
-4.2 dBd



E-Plane
2400-2500 MHz
E-Plane
2450 MHz
-50.0 dBm
-0.4 dBd (1.8 dBi)
-4.5 dBd



E-Plane
2400-2500 MHz
E-Plane
2500 MHz
-50.2 dBm
-1.2 dBd (0.9 dBi)
-5.5 dBd