

Specification

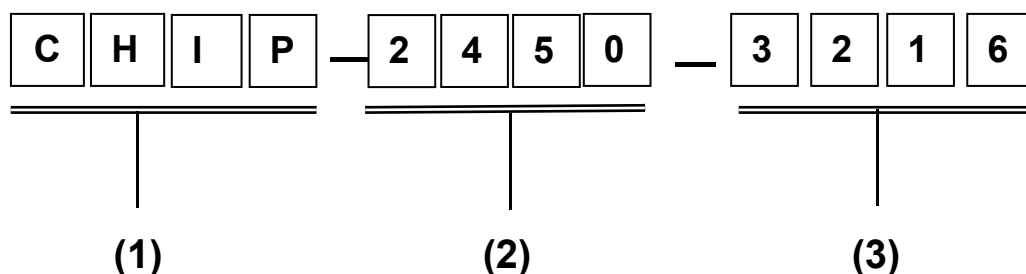
Operating Temp. : -40℃~+85℃

1. FEATURES:

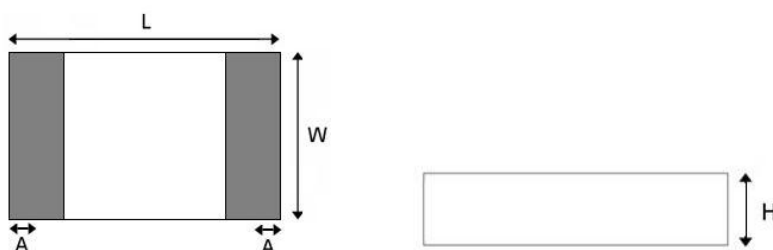
- Light weight, compact
- Wide bandwidth, low cost
- Built-in antenna with high gain

2. APPLICATIONS:

- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

3. PRODUCT IDENTIFICATION

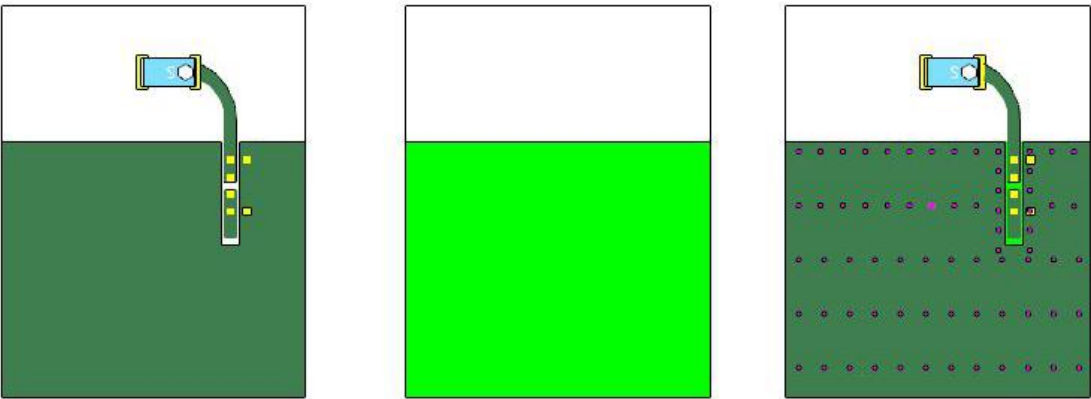
- (1) Product type: chip Antenna
 (2) Center Frequency: 2450MHz
 (3) External Dimensions (L×W) (mm): 3.2*1.6

4. SHAPE AND DIMENSIONS:

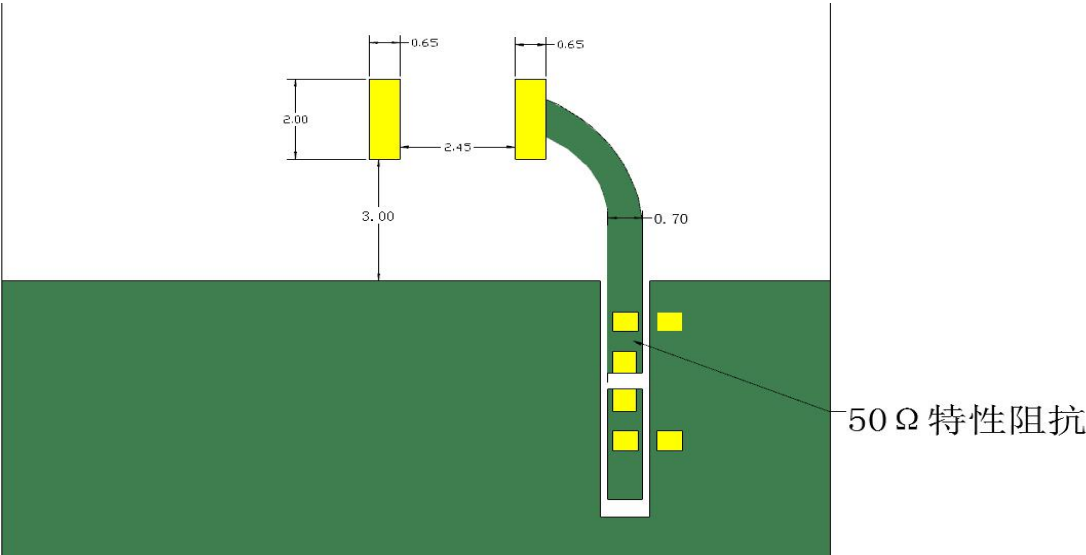
L	W	H	A
3.2±0.2	1.6±0.2	0.52±0.1	0.4±0.1

UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX= ANGL ES = ± HOLEDIA = ±			
SCALE: N/A	UNIT: mm		
DRAWN BY : Sera	CHECKED BY: XD		
DESIGNED BY: Sera	APPROVED BY: XD		
TITLE: CHIP2450-3216 Specification	DOCUMENT NO.	3216	SPEC REV. P1

单位: mm

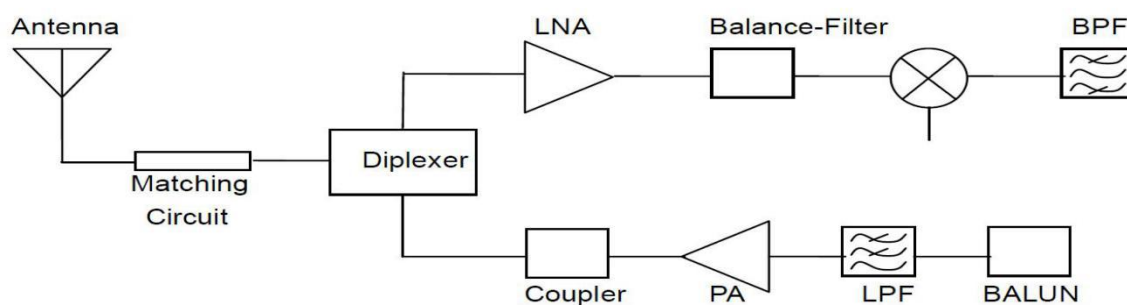


-  CHIP2450-3216-SRF07
-  顶层铺铜
-  焊盘
-  底层铺铜
-  打孔



UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX=± A N G L E S = ± H O L E D I A = ±				
SCALE: N/A	UNIT: mm			
DRAWN BY : Sera	CHECKED BY: XD			
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-3216 Specification		DOCUMENT NO.	3216	SPEC REV. P1

APPLICATION GUIDE



5. SPECIFICATIONS:

No.	Product number	CHIP2450-3216	
1	Frequency Range	2400-2500	MHz
2	Bandwidth	100 (Min.)	MHz
3	Return Loss	-11.96 (Max.)	dB
4	Peak Gain	1.37	dBi
5	Impedance	50	Ω
6	Operating Temperature	-40~+85	$^{\circ}\text{C}$
7	Maximum Power	5	W
8	Resistance to soldering heat	10 (@260 $^{\circ}\text{C}$)	Sec.
9	Polarization	Linear	
10	Azimuth Beam width	Omni-directional	
11	Termination	Sn (leadless)	

UNLESS OTHER SPECIFIED TOLERANCES ON:

$X=\pm$ $X.X=\pm$ $X.XX=$

ANGLES = $\pm$ HOLEDIA = $\pm$

SCALE: N/A	UNIT: mm
DRAWN BY : Sera	CHECKED BY: XD
DESIGNED BY: Sera	APPROVED BY: XD

TITLE: CHIP2450-3216 Specification

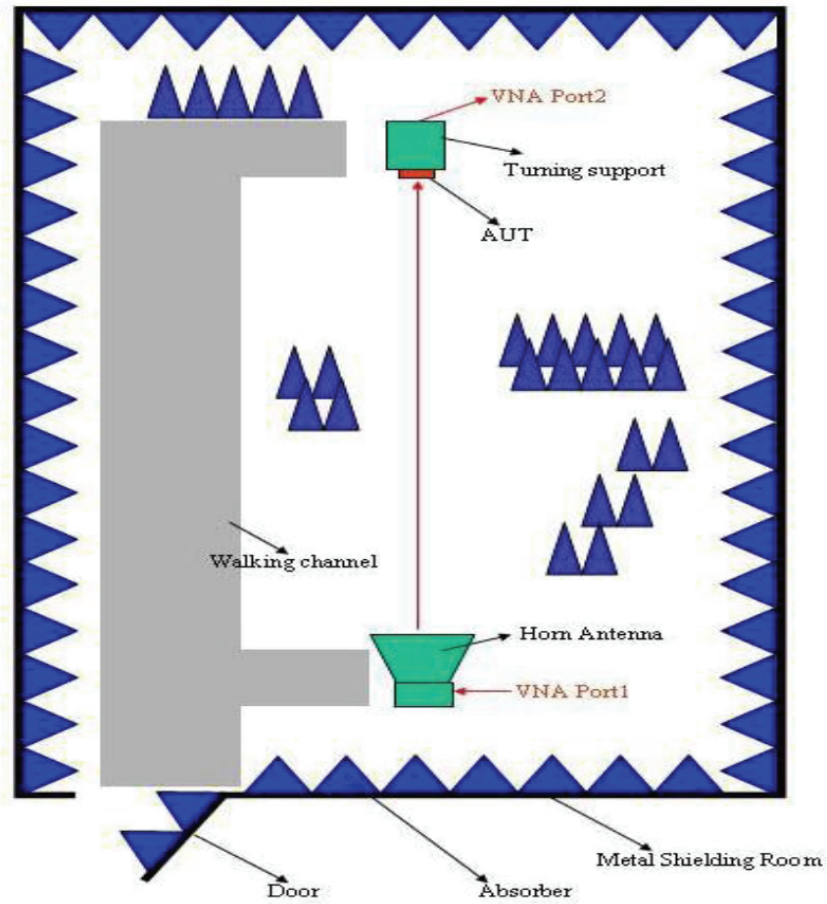
DOCUMENT
NO.

3216

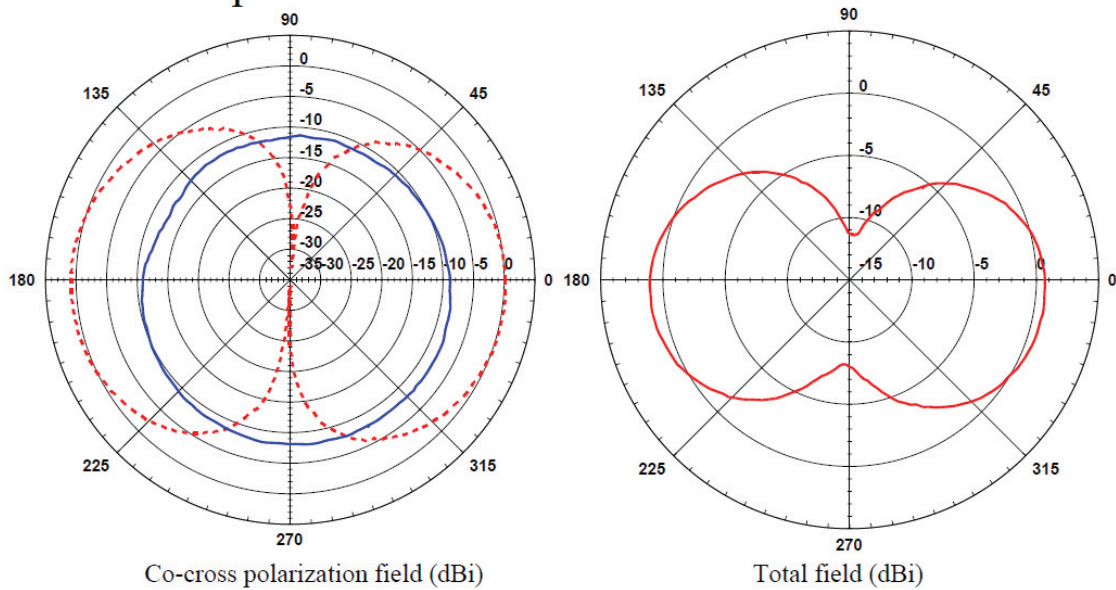
SPEC REV.

P1

The Environment of Antenna Radiation Pattern

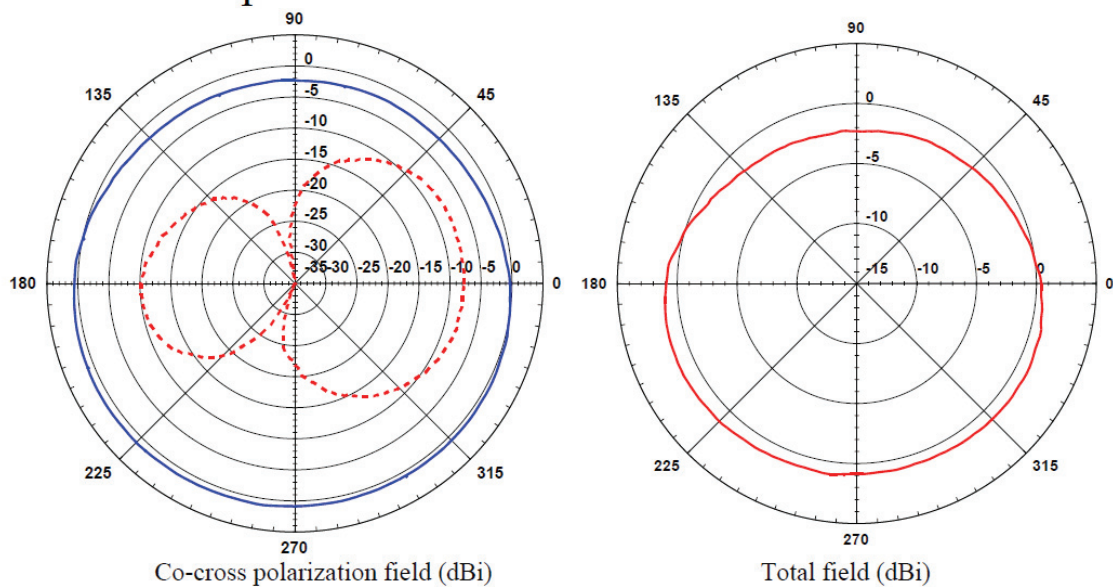


Radiation pattern: Antenna 1. XZ Plane at $f = 2.402\text{GHz}$



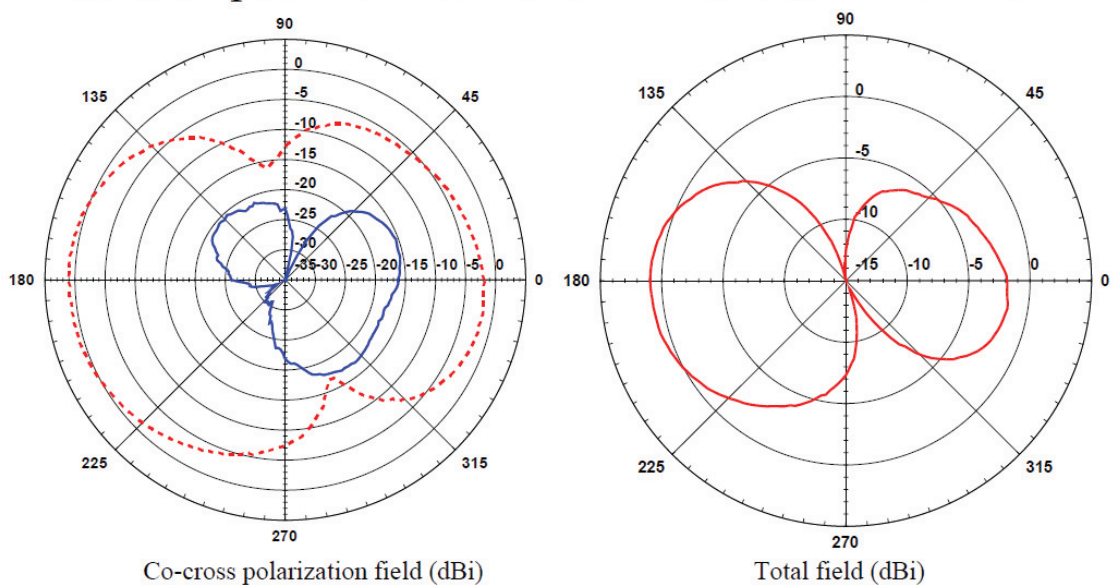
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.402\text{GHz}$



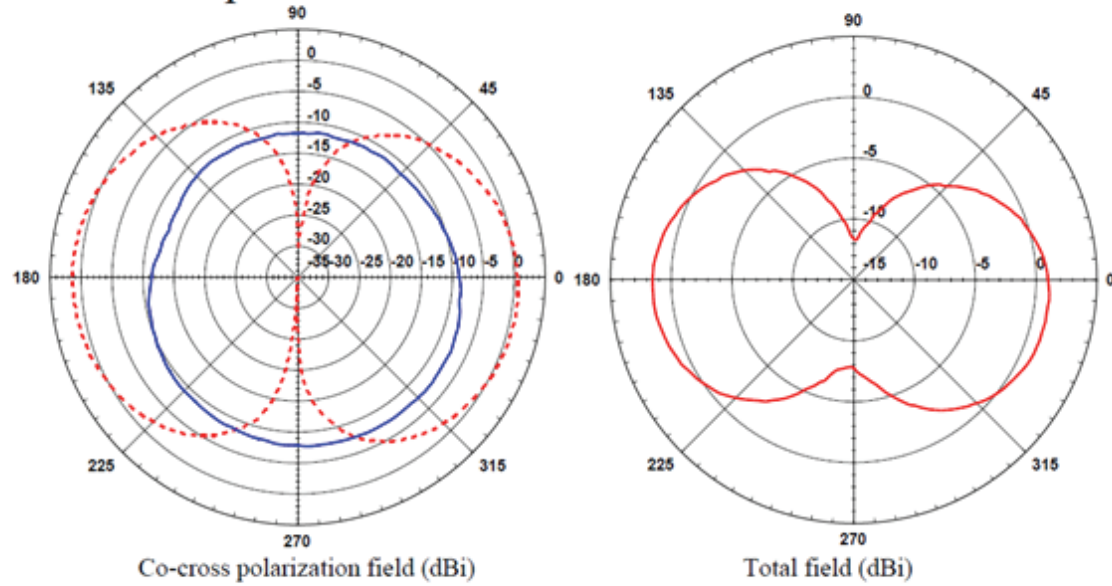
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at $f = 2.402\text{GHz}$



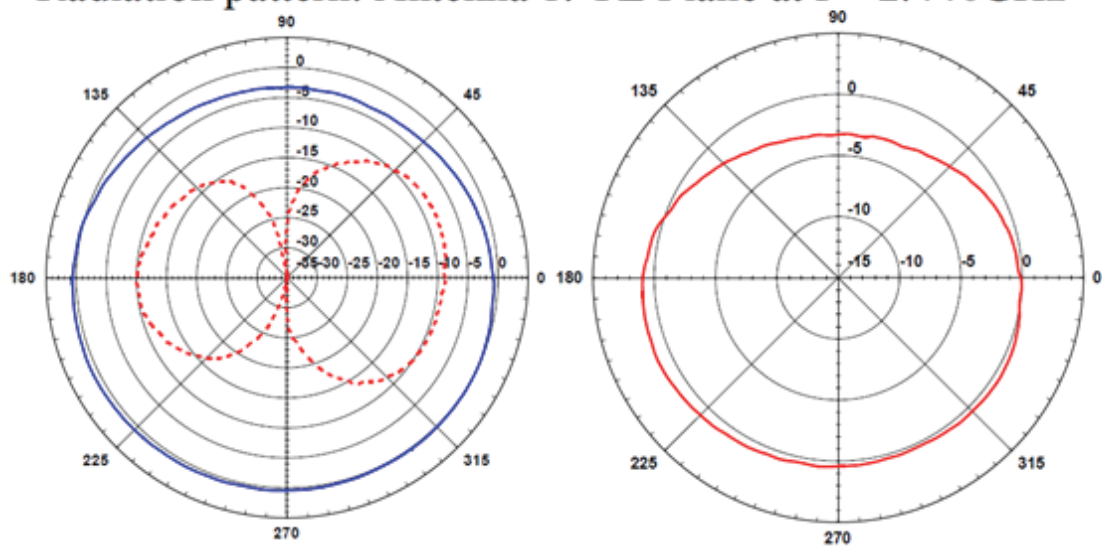
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at $f = 2.440\text{GHz}$



Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.440\text{GHz}$

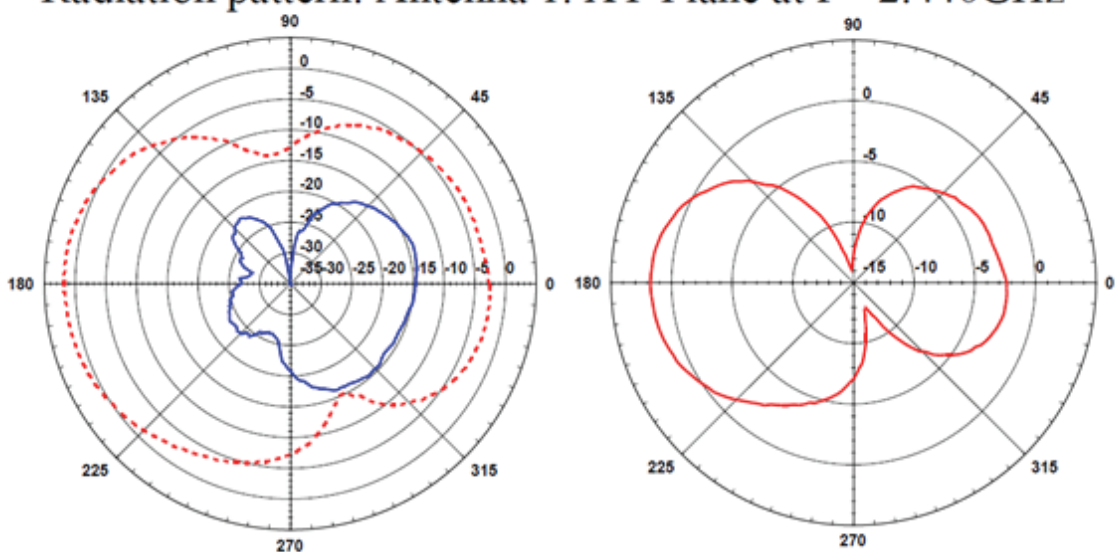


Co-cross polarization field (dBi)

Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at $f = 2.440\text{GHz}$

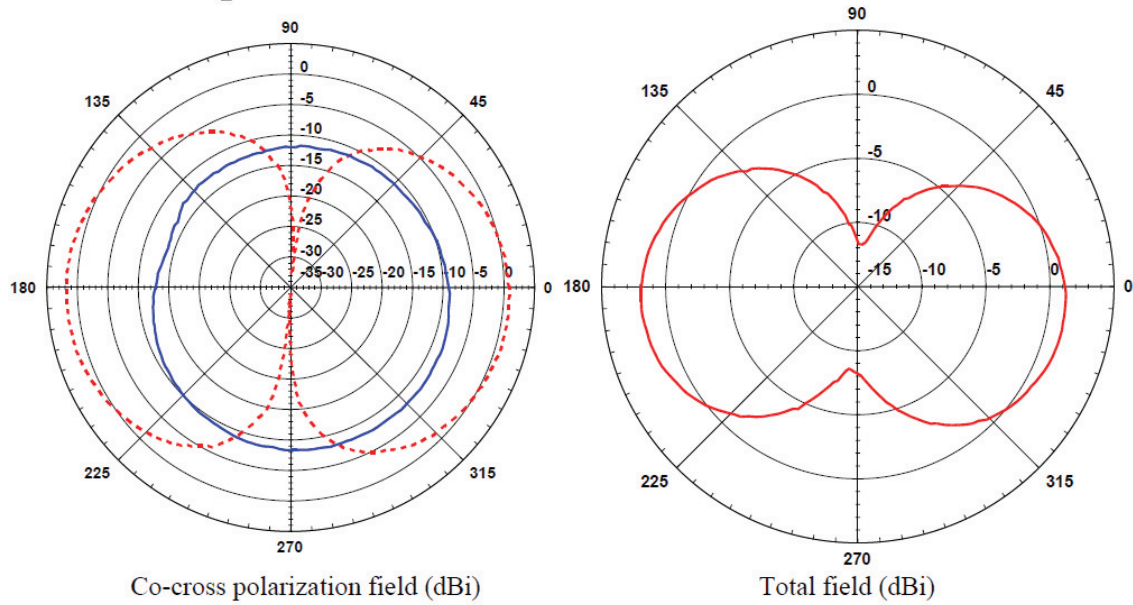


Co-cross polarization field (dBi)

Total field (dBi)

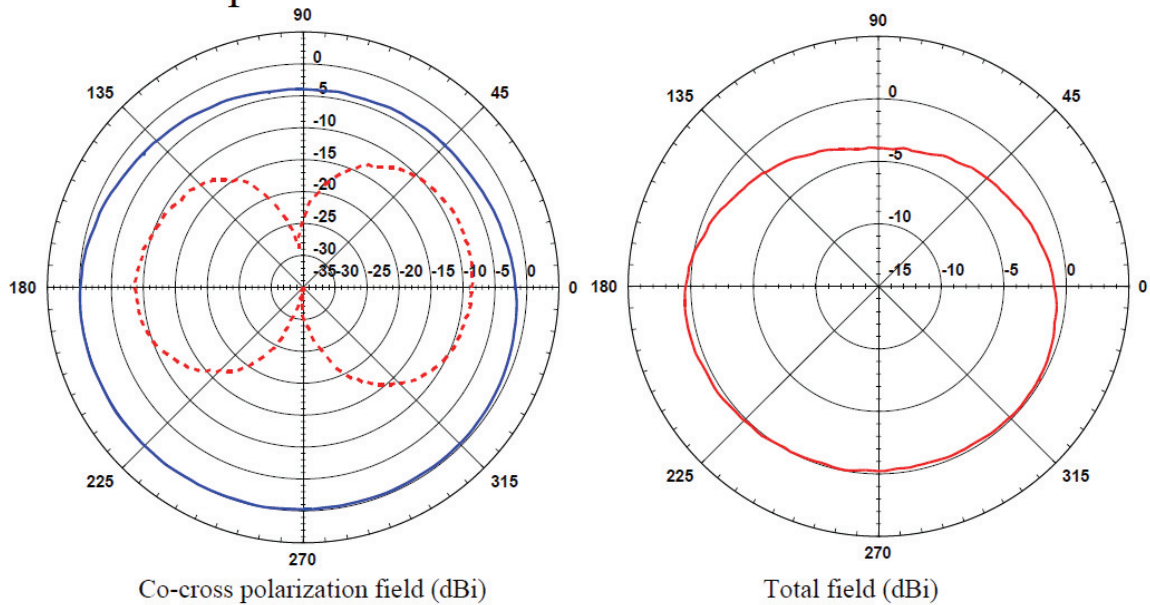
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at $f = 2.480\text{GHz}$



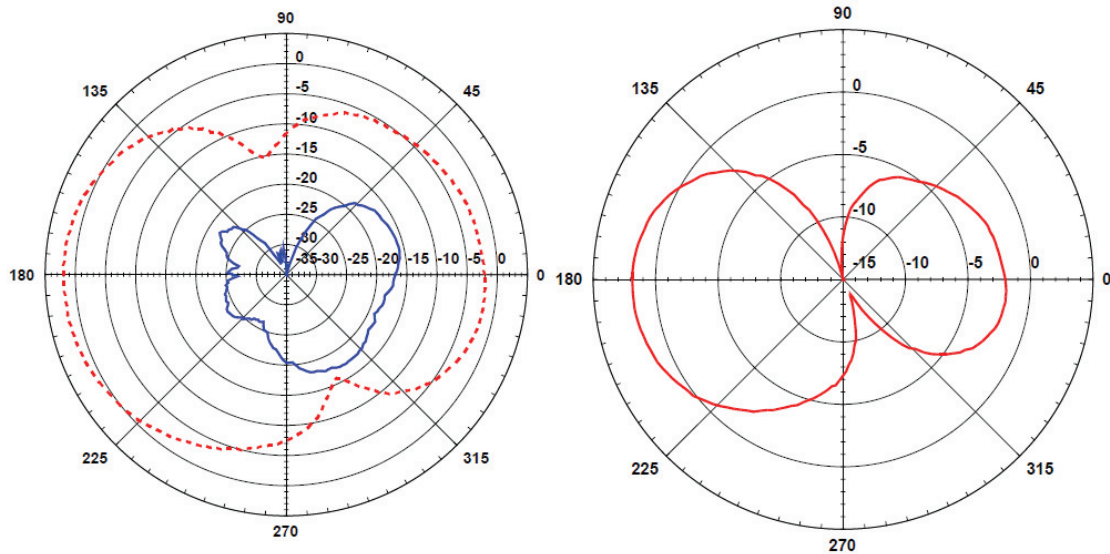
Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.480\text{GHz}$



Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at $f = 2.480\text{GHz}$



Co-cross polarization field (dBi)

Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Measurements summary

	Frequency (GHz)	Plane	Return Loss (dB)	Polarization	Gain max. (dBi)
Antenna 1					
	2.402	XZ	-10.90	Vertical	-7.8
	2.402	XZ	-10.90	Horizontal	0.786
	2.402	YZ	-10.90	Vertical	0.81
	2.402	YZ	-10.90	Horizontal	-7.75
	2.402	XY	-10.90	Vertical	-15.4
	2.402	XY	-10.90	Horizontal	0.58
	2.440	XZ	-12.20	Vertical	-7.36
	2.440	XZ	-12.20	Horizontal	1.02
	2.440	YZ	-12.20	Vertical	0.981
	2.440	YZ	-12.20	Horizontal	-8.23
	2.440	XY	-12.20	Vertical	-14.1
	2.440	XY	-12.20	Horizontal	1.24
	2.48	XZ	-13.80	Vertical	-7.95
	2.48	XZ	-13.80	Horizontal	1.31
	2.48	YZ	-13.80	Vertical	0.204
	2.48	YZ	-13.80	Horizontal	-8.38
	2.48	XY	-13.80	Vertical	-15.8
	2.48	XY	-13.80	Horizontal	1.37