

Please Note: Because of the restrictions with Elements upload website, I was unable to provide the complete PDF for the antenna, and am providing only those pages I believe to be relevant.



WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)
DONGGUAN AEON TECH CO.,LTD.(CHINA)
SUZHOU AEON TECH CO.,LTD.(CHINA)
AEON TECH (SHANGHAI) CO.,LTD(CHINA)
DONGGUAN PARNER TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER:

瑞祺

PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C1685-510008-A(SRF20151595)

REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

華裕實業股份有限公司

Address: No. 326, Sec. 2, Kung Tao 5 Road, Hsin Chu City, Taiwan, R.O.C.

Tel: +886-3-5714225(REP.) Fax: +886-3-5713853 + 886-3-5723600

DONGGUAN AEON TECH CO.,LTD.(CHINA)

東莞台霖電子通訊有限公司

Address: Hupan Industrial District, Tai Ling Shan Town, Dong Guan City, Guangdong, China

Tel: +86-769-85655858 Fax: +86-769-85655258

SUZHOU AEON TECH CO.,LTD(CHINA)

蘇州華廣電通有限公司

Address: Limin North Road, LiLi Town, LiLi Industrial Park, LinHu Economic Zone

Wujiang City, Jiangsu Province, China

Tel: +86-512-63627980 Fax: +86-512-63627981

AEON TECH (SHANGHAI) CO.,LTD(CHINA)

普翔電子貿易(上海)有限公司

Address: Flat 501, 5F, Build 27, NO.68, Guiqing Road, Huhui District, Shanghai, China

Tel: +86-21-64959151 Fax: +86-21-64959059

DONGGUAN PARNER TECH CO.,LTD.(CHINA)

東莞倍能電子有限公司

Address: Hupan Industrial District, Shida Road, Tai Ling Shan Town,

Dong Guan City, Guangdong, China

Tel: +86-769-81662366 Fax: +86-769-81602681

RF Antenna Assembly

Specification

1. Electrical Properties :

- 1.1 Frequency Range.....2.4GHz ~ 2.5GHz ;4.9GHz~5.825GHz
- 1.2 Impedance50Ω Nominal
- 1.3 VSWR1.92 :1Max.
- 1.4 Return Loss.....-10 dB Max.
- 1.5 RadiationOmni-directional
- 1.6 Gain(peak).....3.5dBi @ 2.4GHz ~ 2.5GHz
4.5dBi @ 4.9GHz ~ 5.825GHz
- 1.7 Polarization.....Linear; Vertical
- 1.8 Admitted Power.....1W
- 1.9 Cable.....RG-178 Coaxial Cable
- 1.10 Connector.....SMA Plug Straight/Reverse

2. Physical Properties :

- 2.1 Antenna Body.....TPE
- 2.2 Antenna Base.....PC
- 2.3 Antenna Base.....PC+PBT
- 2.4 Operating Temp-10°C ~ +60°C
- 2.5 Storage Temp.-10°C ~ +70°C
- 2.6 ColorBlack

A	B	C	D	E	F	G	
					REV	DATE	DESCRIPTION
1					X1	09/16/2015	New Issue
2							
3							
4							
5							
6							

NO	DESCRIPTION	Q'TY	REMARK
6	Cable RG-178; 透明軟綫	1	
5	Connector Reverse;Straight;Plug;RG-178	1	
4	Rivet POM ; Black	2	
3	Antenna Base (CD-13)PC+PBT; Color :Black	1	
2	Antenna Base (CD-384)PC Color : Black	1	
1	Antenna Body (CD-383)TPE Color :Black	1	

PE Bag Shrink Line

Packing:10pcs/Bag

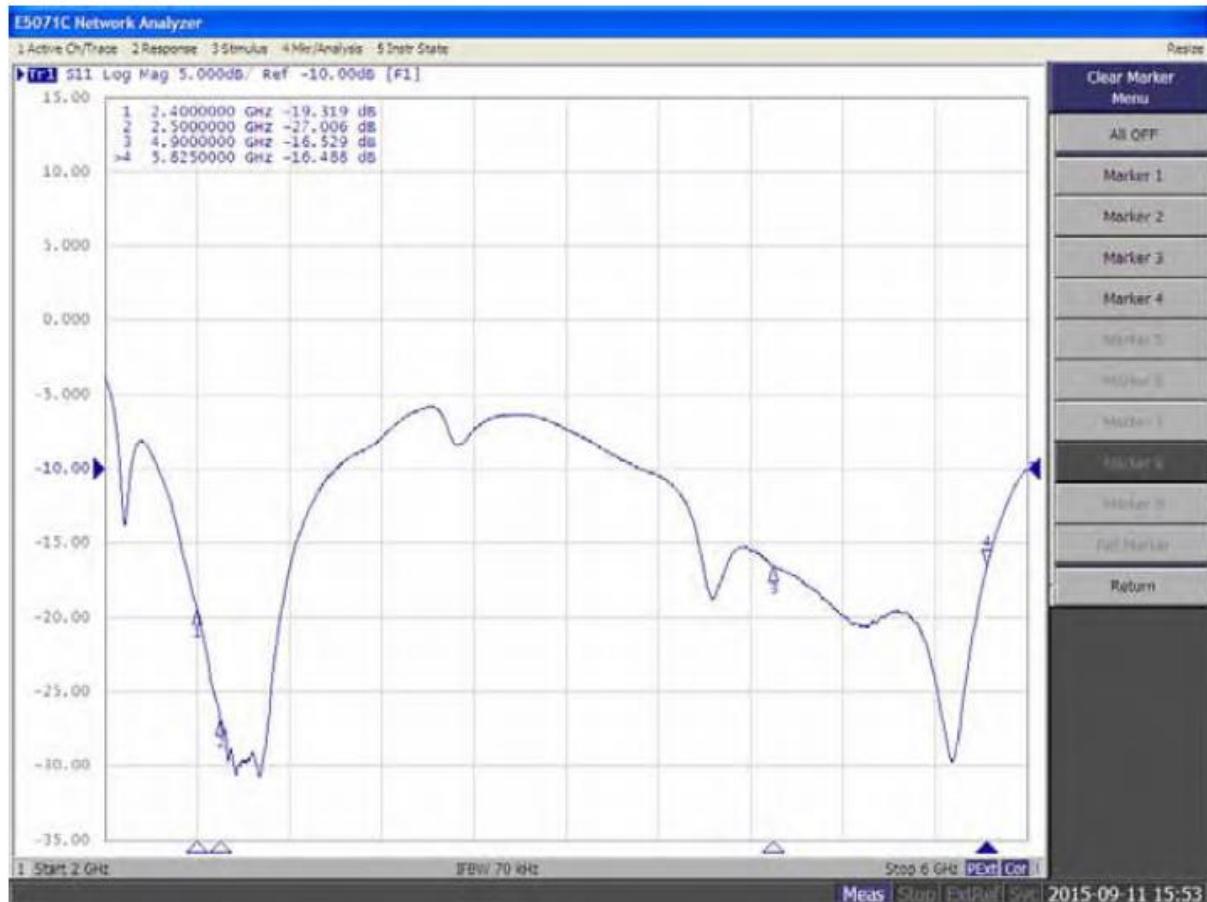
XX	#	APPROVED	CUSTOMER:	REMARK
X	#1.0	何四春 2015.09.16	瑞 桢	
X	#1.0	CHECKED	PART NO :	
XX	#1.5		PARTNAME: RF Antenna Assembly	
XX	#1.1	DRAWING	W.Y P/NO : C1685-510008-A	
		劉金芳 2015.09.16	REV : X1	UNIT : m/m FILE : SRF20151595
				SHEET : 1/1

All.gear Wha Yu Group

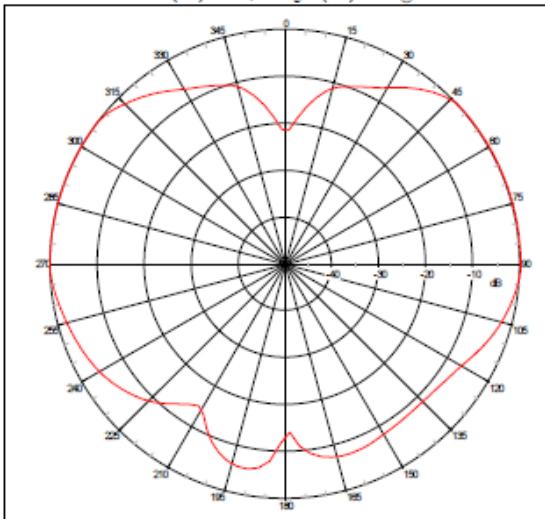
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RF Antenna Assembly

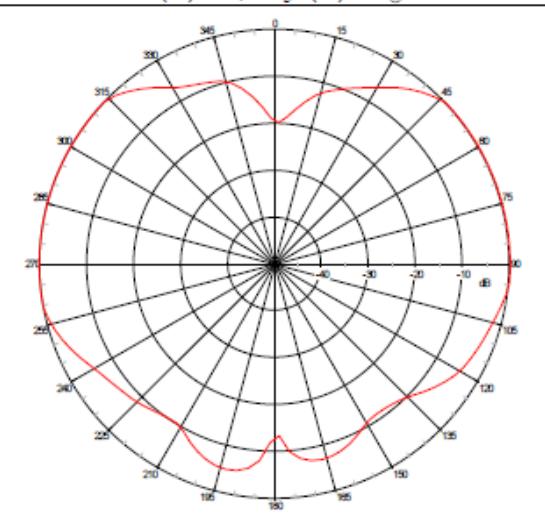
P/No. C1685-510008-A SRF20151595 Spec:2.4~2.5GHZ&4.9~5.825 GHZ



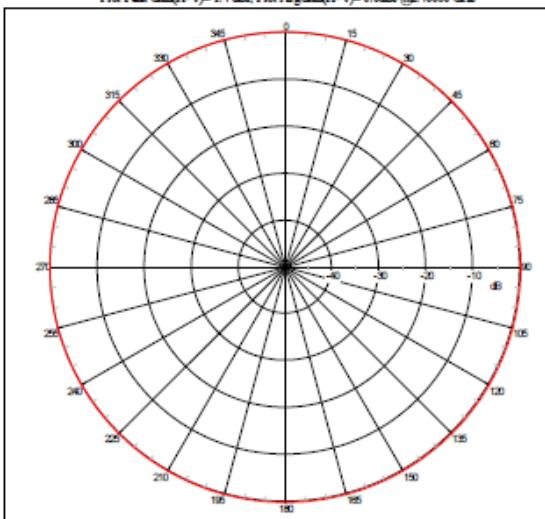
Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 2.4 dBi; Plot AvgGain(H+V)= 0.0dBi @2.40000 GHz



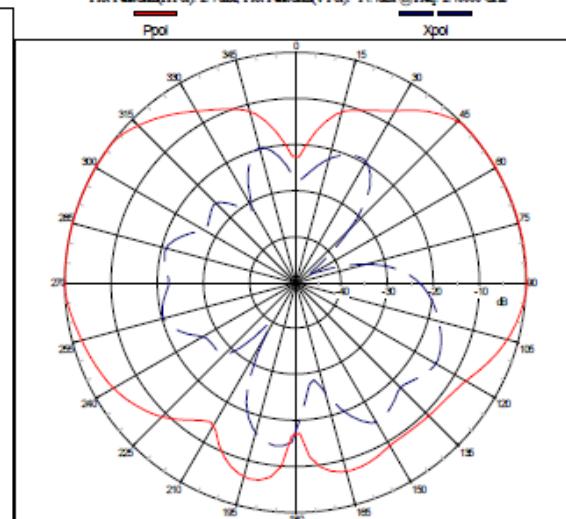
Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 3.0 dBi; Plot AvgGain(H+V)= 0.0dBi @2.40000 GHz



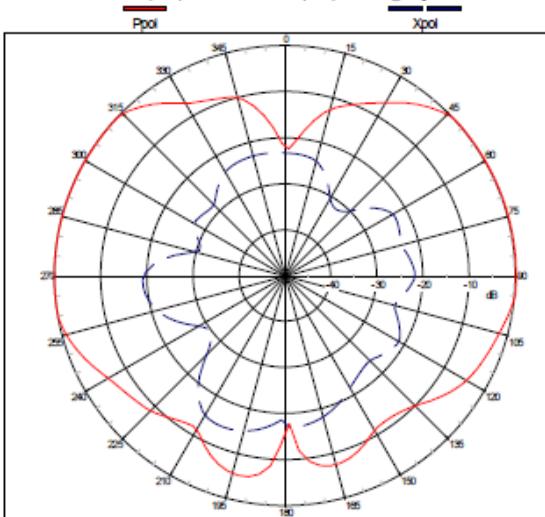
Far-field Power Distribution(H+V) on X-Y Plane
Plot Peak Gain(H+V)= 1.4 dBi; Plot AvgGain(H+V)= 0.0dBi @2.40000 GHz



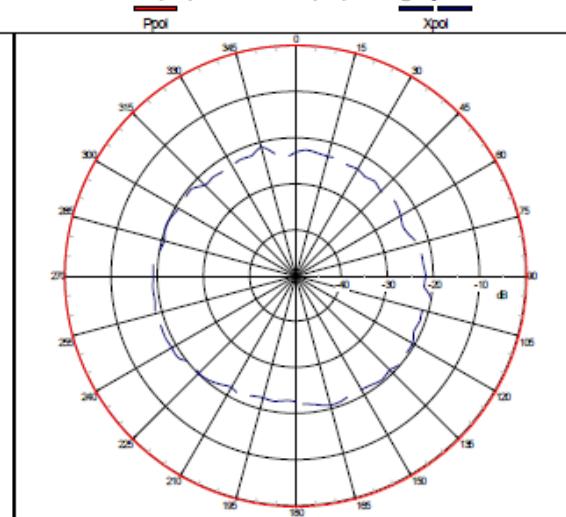
Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg(X-Z Plane-Cut)
Plot PeakGain(H-Pol): 2.4 dBi; Plot PeakGain(V-Pol): -14.4dBi @ Freq: 2.4000 GHz



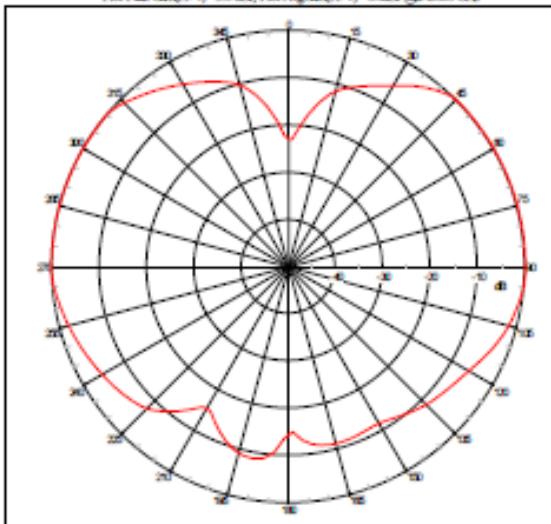
Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg(Y-Z Plane-Cut)
Plot PeakGain(H-Pol): 3.0 dBi; Plot PeakGain(V-Pol): -14.6dBi @ Freq: 2.4000 GHz



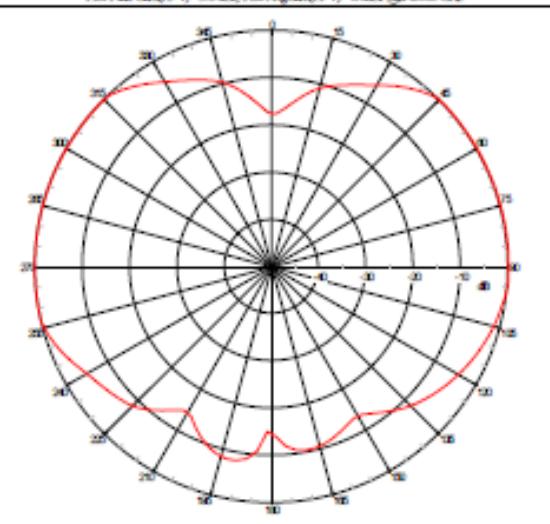
Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg(X-Y Plane-Cut)
Plot PeakGain(H-Pol): 1.4 dBi; Plot PeakGain(V-Pol): -18.6dBi @ Freq: 2.4000 GHz



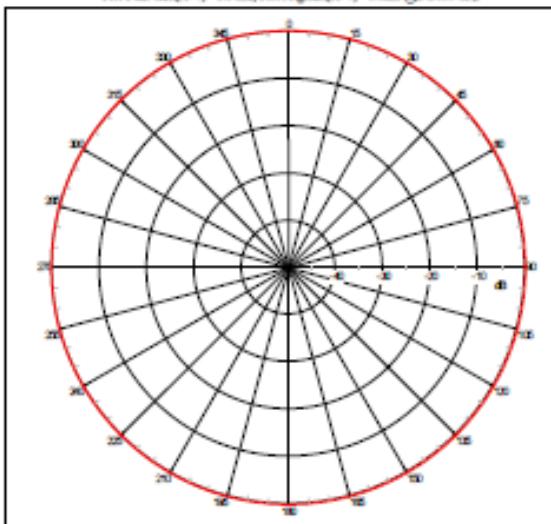
Far-field Power Distribution(H+V) on X-Z Plane
Net Peak Gain(H/V)=3.0 dBi; Net Angle(H/V)=0.000 (2.4000 GHz)



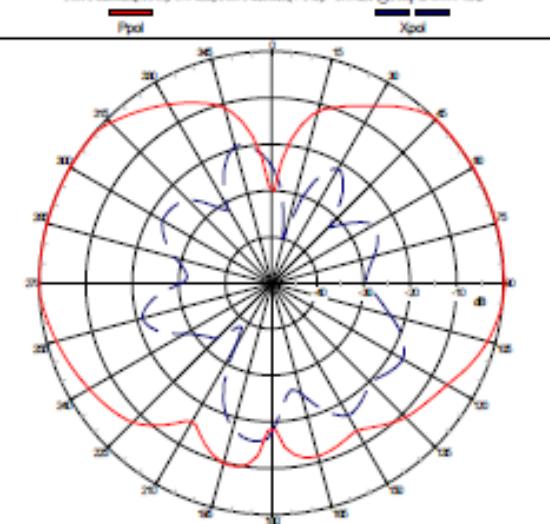
Far-field Power Distribution(H+V) on Y-Z Plane
Net Peak Gain(H/V)=3.3 dBi; Net Angle(H/V)=0.000 (2.4000 GHz)



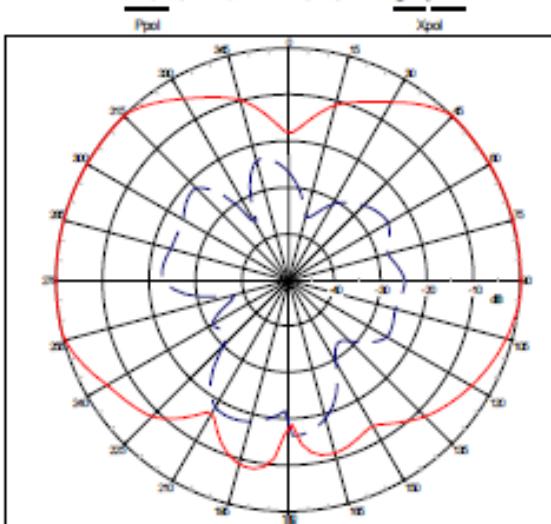
Far-field Power Distribution(H+V) on X-Y Plane
Net Peak Gain(H/V)=1.8 dBi; Net Angle(H/V)=0.000 (2.4000 GHz)



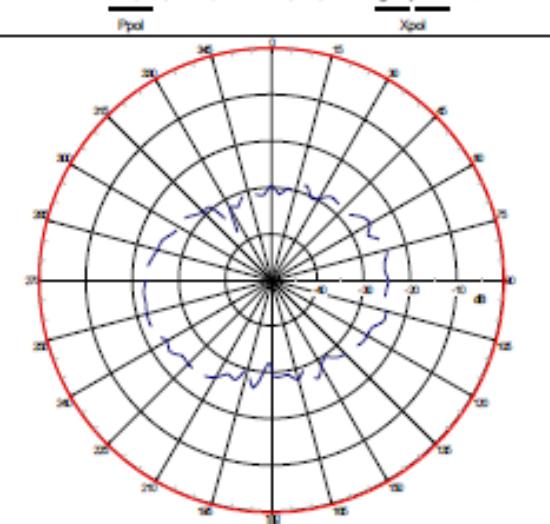
Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg (X-Z Plane-Cut)
Net Pattern(H/H)=3.0 dBi; Net Pattern(V/H)=1.9 dBi (2.4000 GHz)



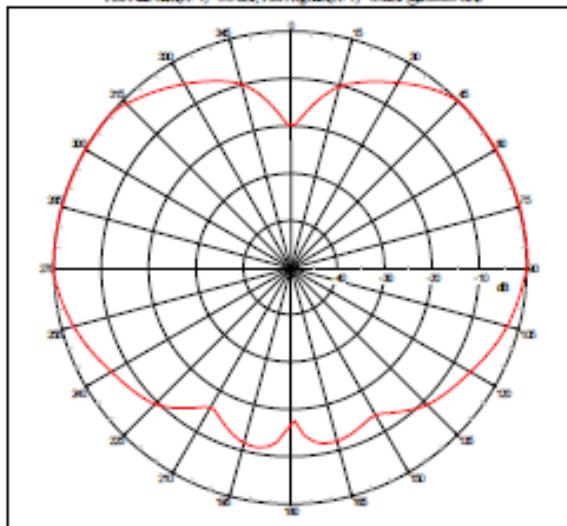
Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg (Y-Z Plane-Cut)
Net Pattern(H/H)=3.3 dBi; Net Pattern(V/H)=-16.5 dBi (2.4000 GHz)



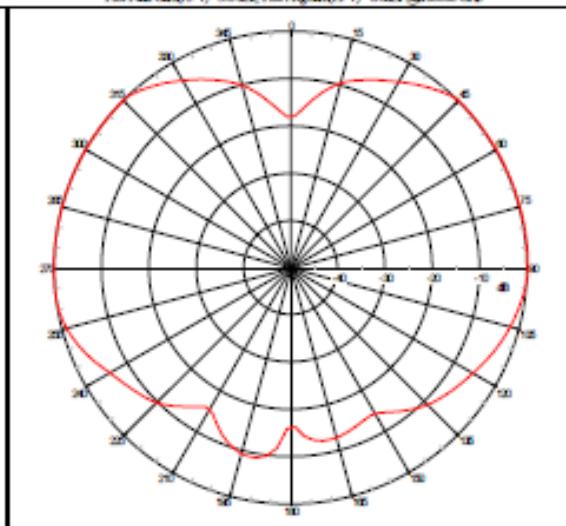
Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg (X-Y Plane-Cut)
Net Pattern(H/H)=1.8 dBi; Net Pattern(V/H)=-22.2 dBi (2.4000 GHz)



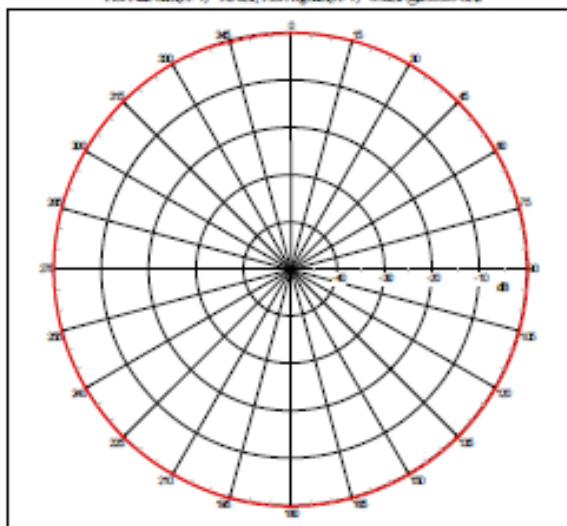
Far-field Power Distribution(H+V) on X-Z Plane
Net Peak Gain@Vx=3.0 dBi; Net Angle@Vx=0.0dBi @f=3.0000 GHz



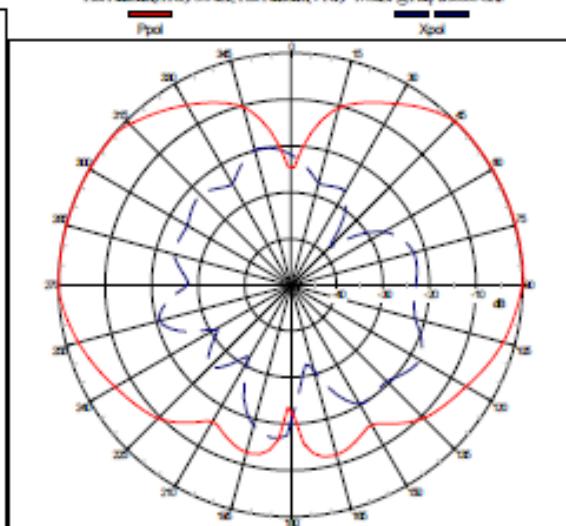
Far-field Power Distribution(H+V) on Y-Z Plane
Net Peak Gain@Vx=3.3 dBi; Net Angle@Vx=0.0dBi @f=3.0000 GHz



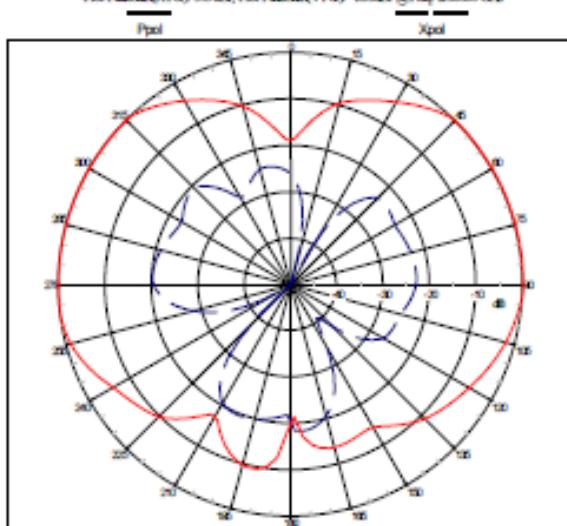
Far-field Power Distribution(H+V) on X-Y Plane
Net Peak Gain@Vx=1.2 dBi; Net Angle@Vx=0.0dBi @f=3.0000 GHz



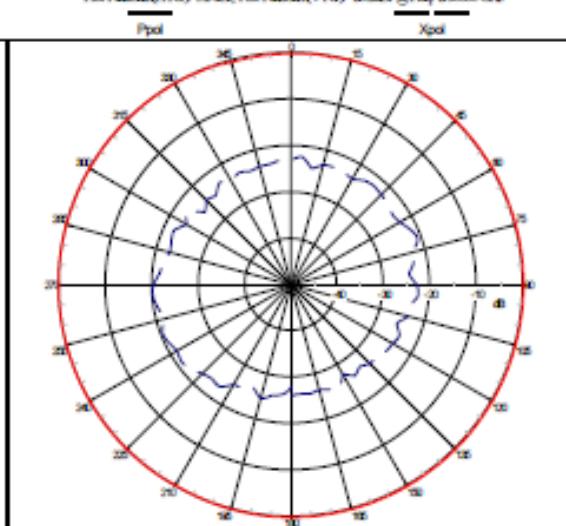
Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg (X-Z Plane-Cut)
Net Peak Gain(H-Pol): 3.0 dBi; Net Position(V-Pol): -17.0dBi @f=3.0000 GHz



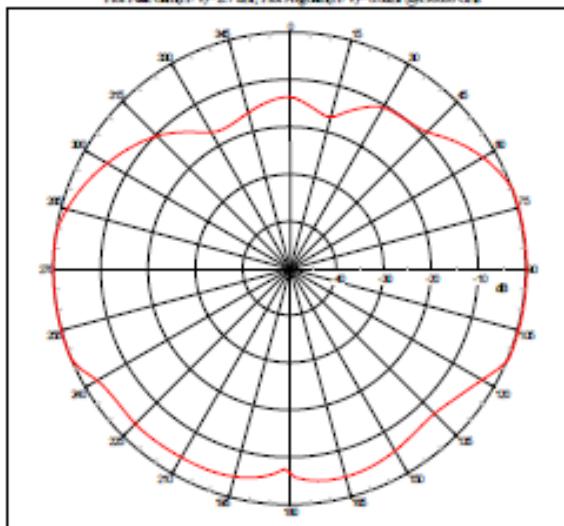
Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg (Y-Z Plane-Cut)
Net Peak Gain(H-Pol): 3.3 dBi; Net Position(V-Pol): -18.5dBi @f=3.0000 GHz



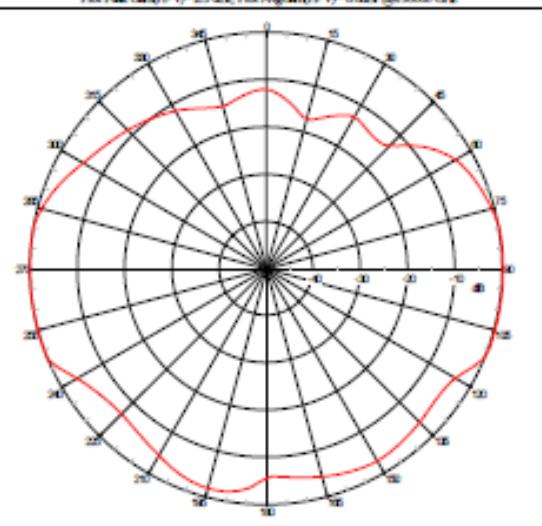
Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg (X-Y Plane-Cut)
Net Peak Gain(H-Pol): 1.2 dBi; Net Position(V-Pol): -31.0dBi @f=3.0000 GHz



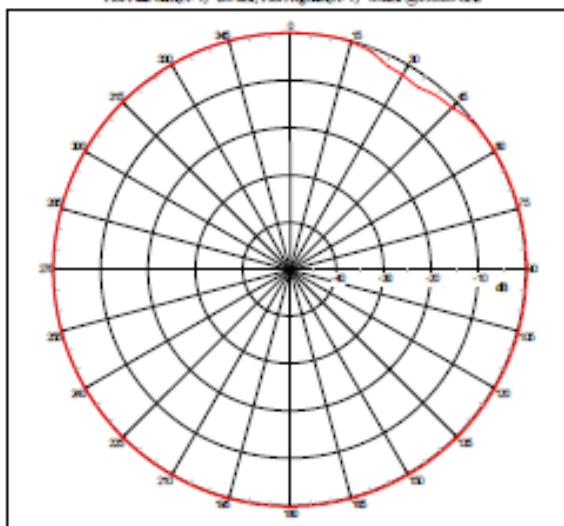
Far-field Power Distribution(H+V) on X-Z Plane
Net Peak Gain(H/V)=2.7 dBi; Net Angle(H/V)=0.021 deg @49000 GHz



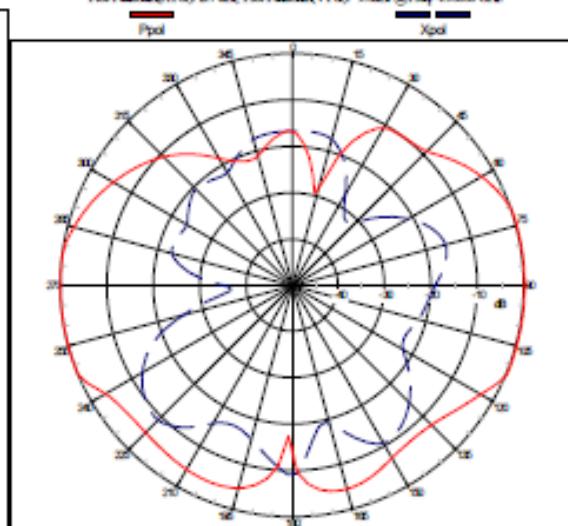
Far-field Power Distribution(H+V) on Y-Z Plane
Net Peak Gain(H/V)=2.5 dBi; Net Angle(H/V)=0.021 deg @49000 GHz



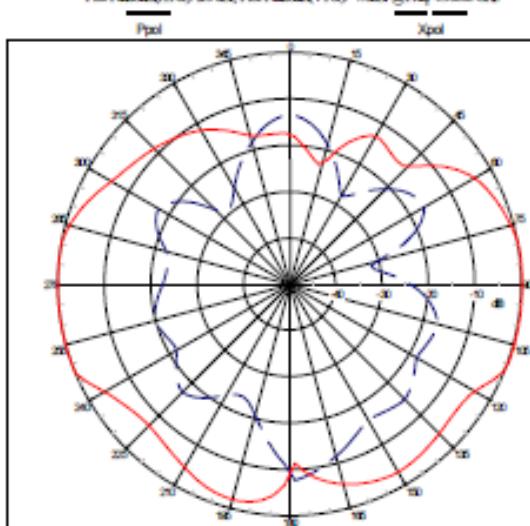
Far-field Power Distribution(H+V) on X-Y Plane
Net Peak Gain(H/V)=2.0 dBi; Net Angle(H/V)=0.021 deg @49000 GHz



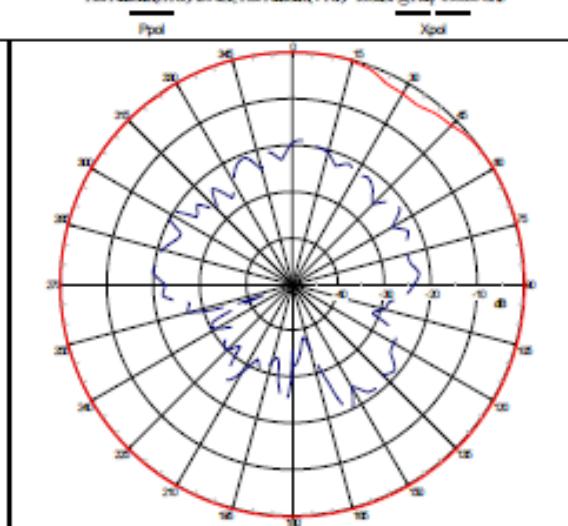
Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg (X-Z Plane-Cut)
Net Peak Gain(H/V)=2.7 dBi; Net Position(V/H)= -0.021 deg @49000 GHz



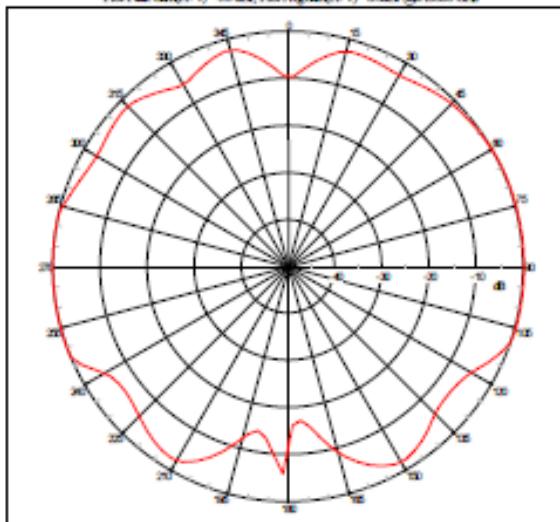
Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg (Y-Z Plane-Cut)
Net Peak Gain(H/V)=2.5 dBi; Net Position(V/H)= -0.021 deg @49000 GHz



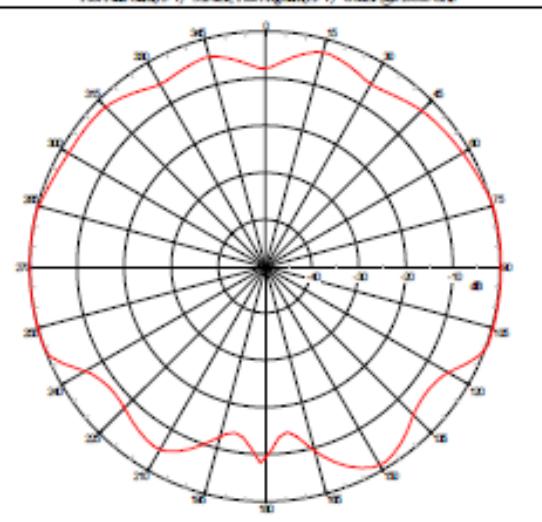
Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg (X-Y Plane-Cut)
Net Peak Gain(H/V)=2.0 dBi; Net Position(V/H)= -0.021 deg @49000 GHz



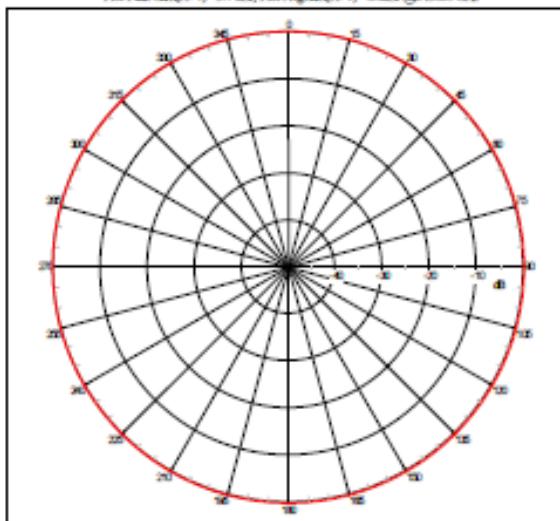
Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H/V)=4.0 dBi; Plot Angle(H/V)=0.0 deg @5.1300 GHz



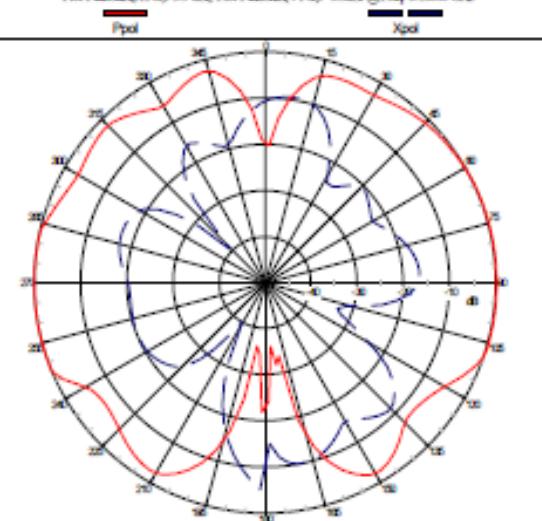
Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H/V)=3.2 dBi; Plot Angle(H/V)=0.0 deg @5.1300 GHz



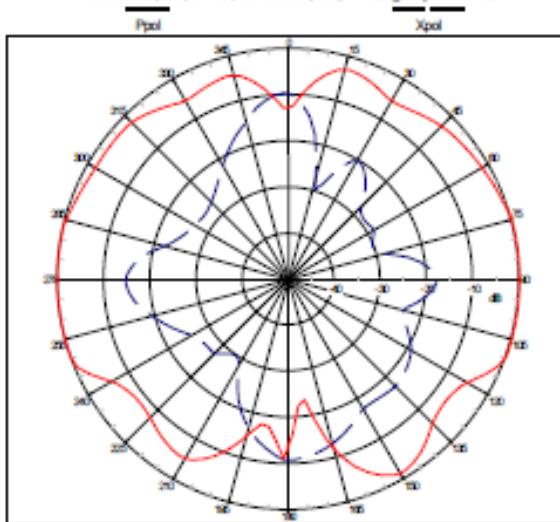
Far-field Power Distribution(H-V) on X-Y Plane
Plot Peak Gain(H/V)=3.7 dBi; Plot Angle(H/V)=0.0 deg @5.1300 GHz



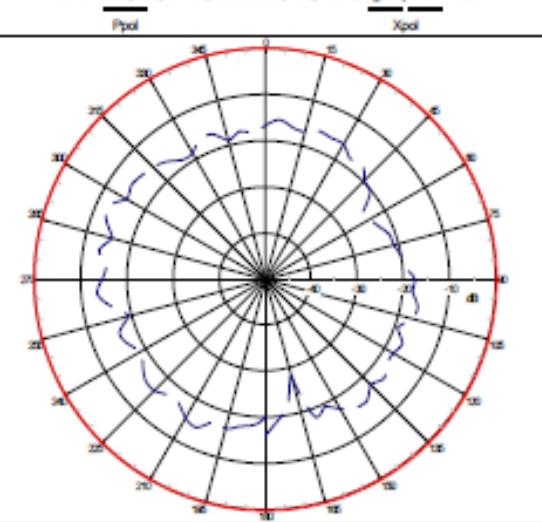
Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg (X-Z Plane-Cut)
Plot PeakGain(H/V)=3.9 dBi; Plot PeakGain(V/H)=3.3 dBi @Freq: 5.1300 GHz



Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg (Y-Z Plane-Cut)
Plot PeakGain(H/V)=3.1 dBi; Plot PeakGain(V/H)=3.3 dBi @Freq: 5.1300 GHz

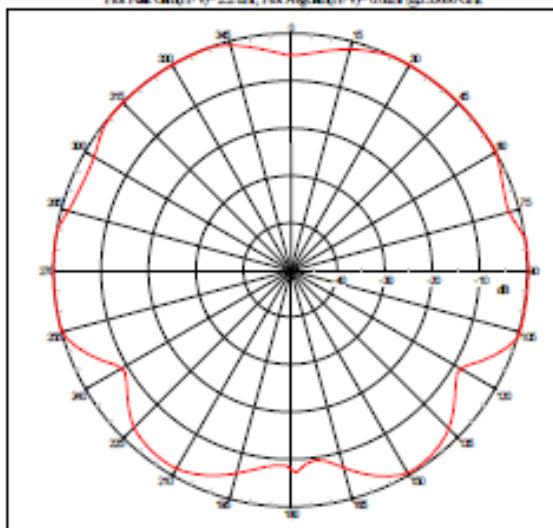


Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg (X-Y Plane-Cut)
Plot PeakGain(H/V)=3.7 dBi; Plot PeakGain(V/H)=3.5 dBi @Freq: 5.1300 GHz



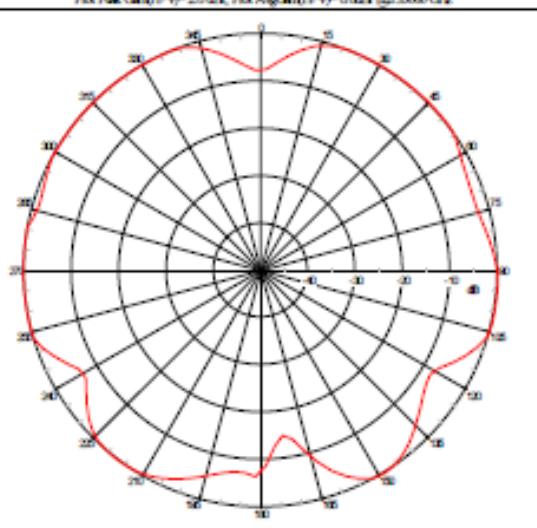
Far-field Power Distribution(H+V) on X-Z Plane

Net Peak Gain: 0 dBi; Net Angle(H+V): 0.00d (5.3000 GHz)



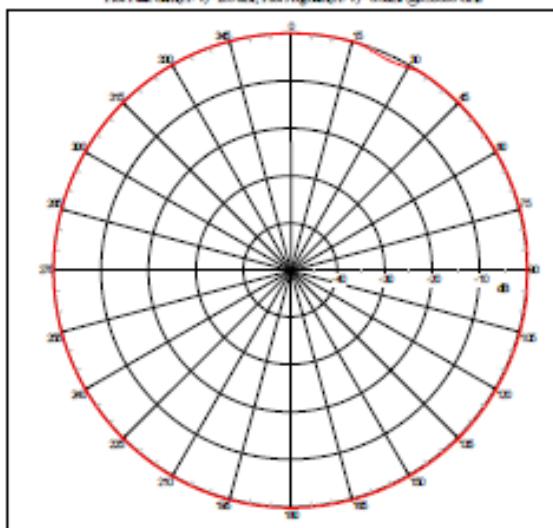
Far-field Power Distribution(H+V) on Y-Z Plane

Net Peak Gain: 0 dBi; Net Angle(H+V): 0.00d (5.3000 GHz)



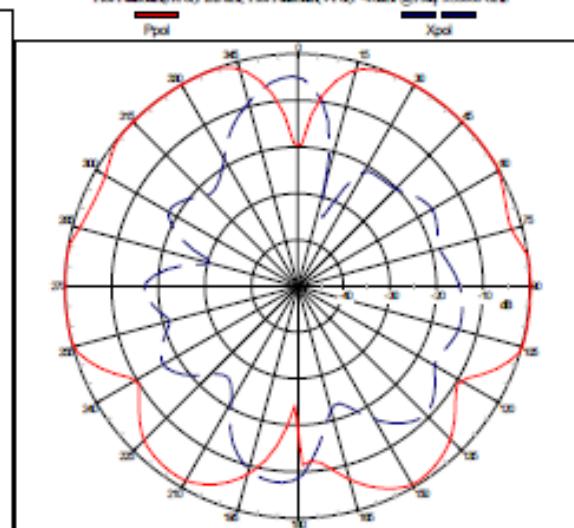
Far-field Power Distribution(H+V) on X-Y Plane

Net Peak Gain: 0 dBi; Net Angle(H+V): 0.00d (5.3000 GHz)



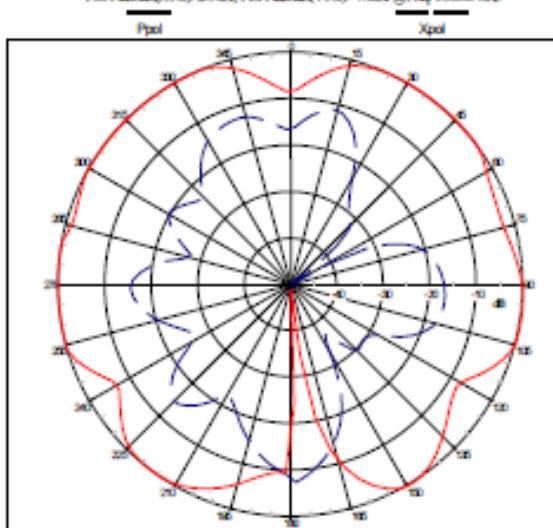
Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg (X-Z Plane-Cut)

Net Peak Gain(H-Pol): 2.2 dBi; Net Peak Gain(V-Pol): -1.6 dBi @ Freq: 5.3000 GHz



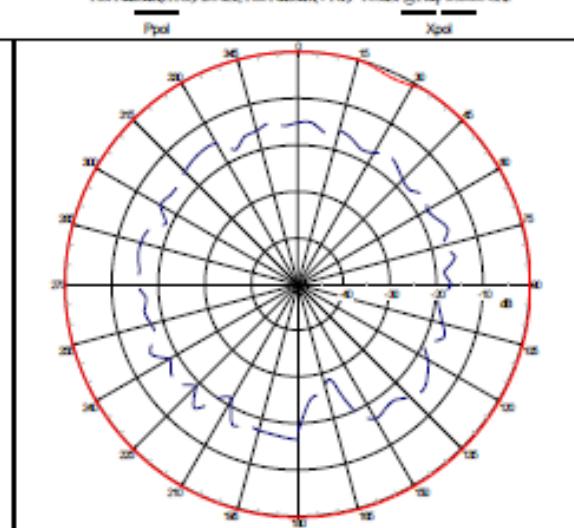
Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg (Y-Z Plane-Cut)

Net Peak Gain(H-Pol): 2.6 dBi; Net Peak Gain(V-Pol): -1.5 dBi @ Freq: 5.3000 GHz

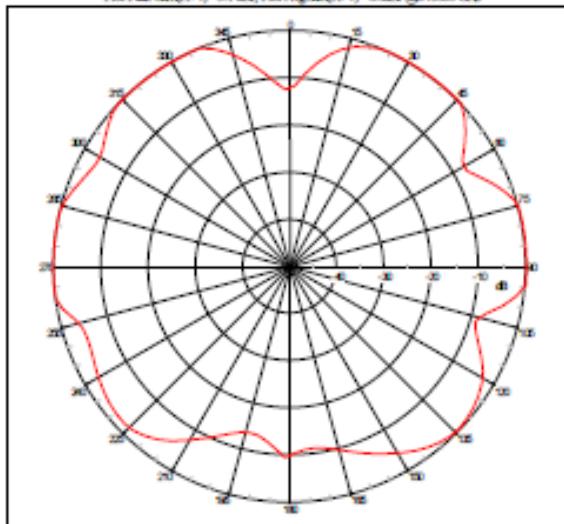


Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg (X-Y Plane-Cut)

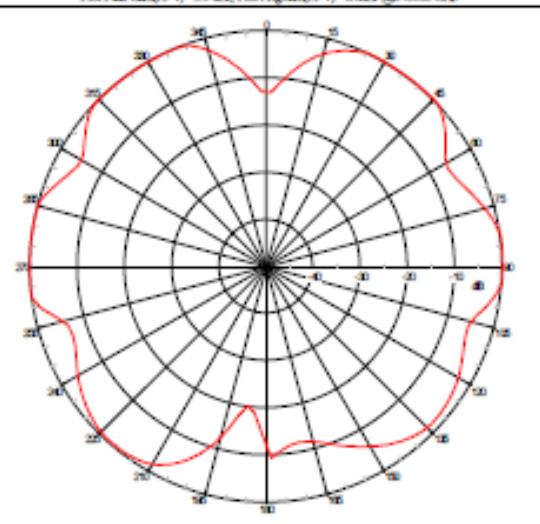
Net Peak Gain(H-Pol): 2.6 dBi; Net Peak Gain(V-Pol): -1.6 dBi @ Freq: 5.3000 GHz



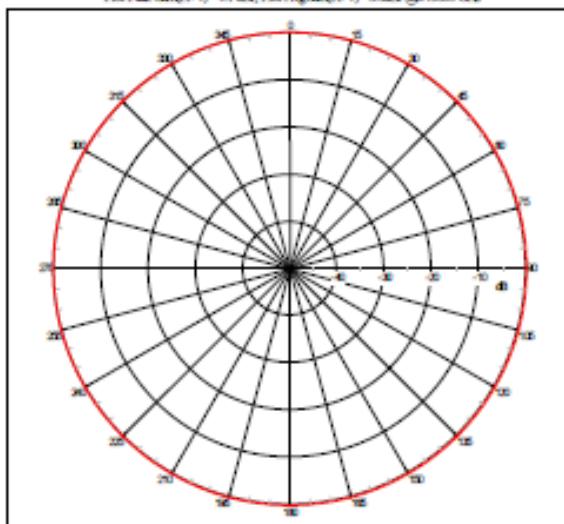
Far-field Power Distribution(H+V) on X-Z Plane
Ptx Peak Gain@H/V=3.1 dBi; Ptx Avg Gain@H/V=0.02dBi @5.7500 GHz



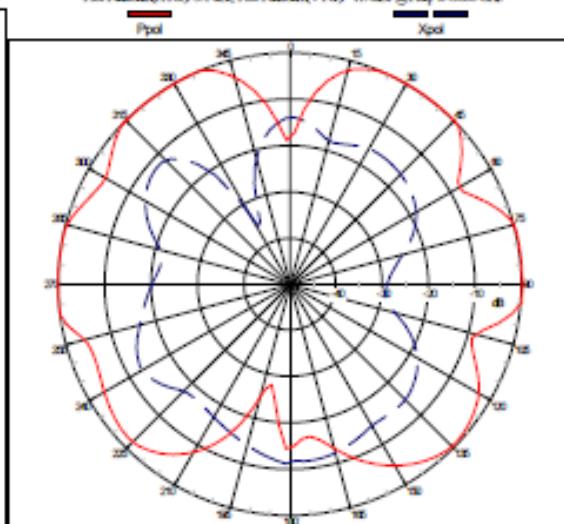
Far-field Power Distribution(H+V) on Y-Z Plane
Ptx Peak Gain@H/V=3.9 dBi; Ptx Avg Gain@H/V=0.02dBi @5.7500 GHz



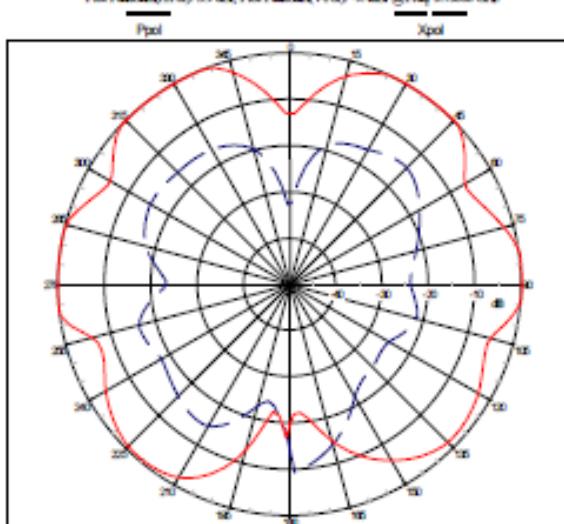
Far-field Power Distribution(H+V) on X-Y Plane
Ptx Peak Gain@H/V=4.1 dBi; Ptx Avg Gain@H/V=0.02dBi @5.7500 GHz



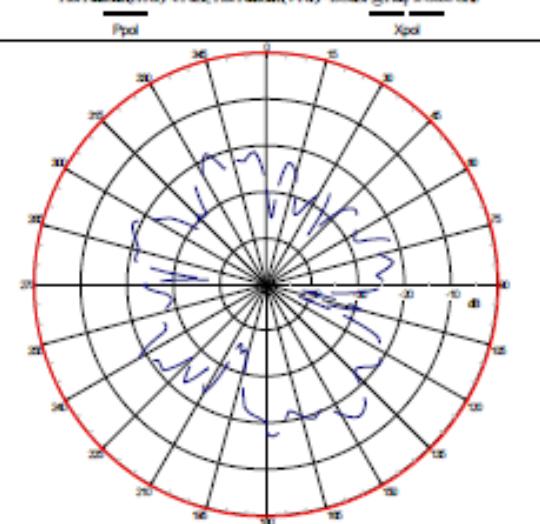
Far-Field Patterns of H-Pol & V-Pol @ Phi=0 deg (X-Z Plane-Cut)
Ptx Peak Gain@H/V=3.1 dBi; Ptx Peak Gain@V/H= -1.4dBi @Freq: 5.7500 GHz



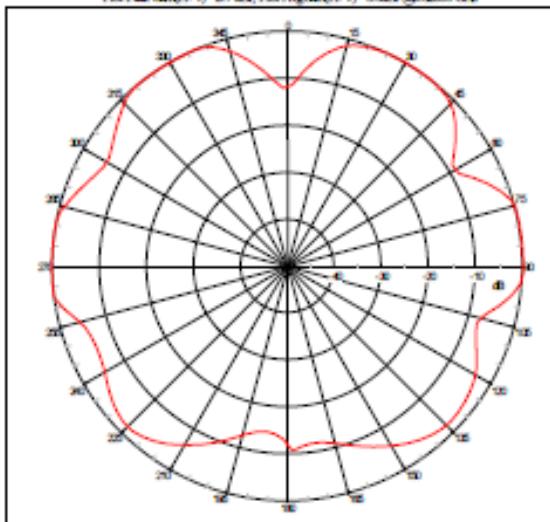
Far-Field Patterns of H-Pol & V-Pol @ Phi=90 deg (Y-Z Plane-Cut)
Ptx Peak Gain@H/V=3.9 dBi; Ptx Peak Gain@V/H= -4.4dBi @Freq: 5.7500 GHz



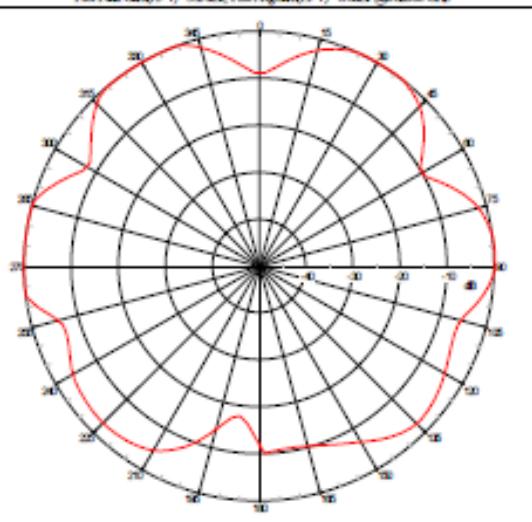
Far-Field Patterns of H-Pol & V-Pol @ Theta=90 deg (X-Y Plane-Cut)
Ptx Peak Gain@H/V=4.1 dBi; Ptx Peak Gain@V/H= -15.3dBi @Freq: 5.7500 GHz



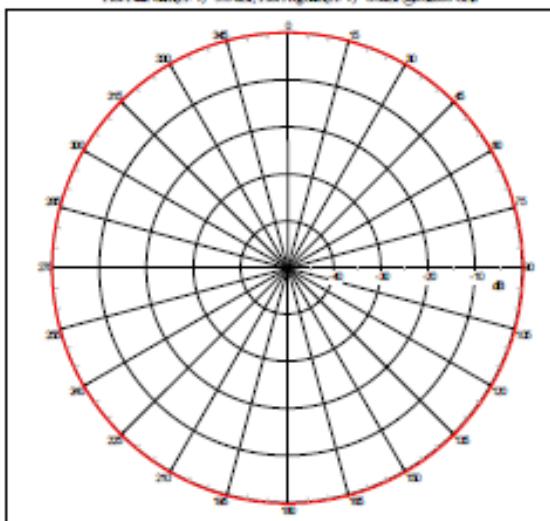
Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain@H-Vr=2.7 dBi; Plot Avg Gain@H-Vr=0.0 dBi @Freq:5.02500 GHz



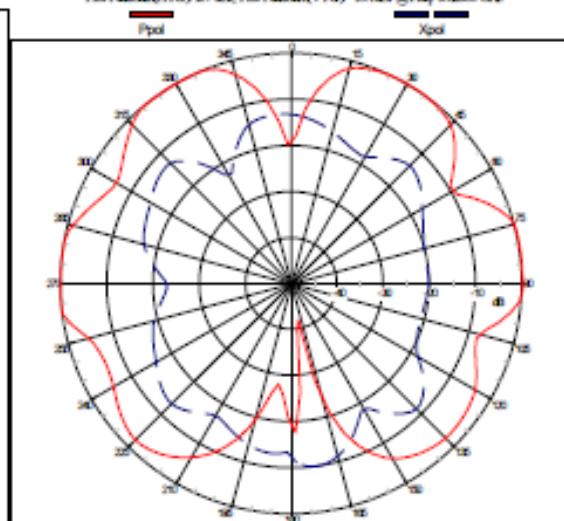
Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain@H-Vr=3.2 dBi; Plot Avg Gain@H-Vr=0.0 dBi @Freq:5.02500 GHz



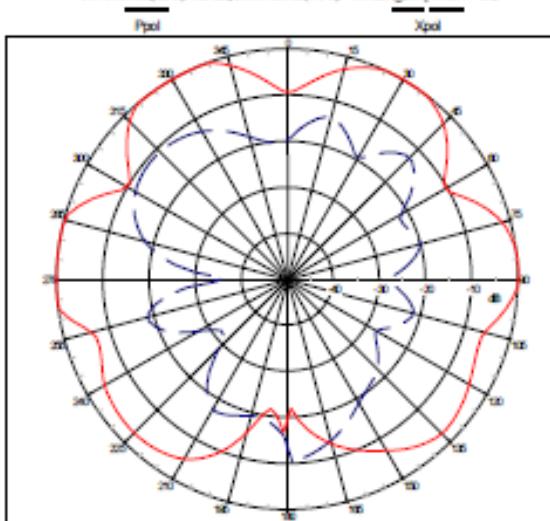
Far-field Power Distribution(H+V) on X-Y Plane
Plot Peak Gain@H-Vr=3.6 dBi; Plot Avg Gain@H-Vr=0.0 dBi @Freq:5.02500 GHz



Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg (X-Z Plane-Cut)
Plot Peak Gain(H/Hr)=2.7 dBi; Plot Peak Gain(V/Hr)=-0.1 dBi @Freq:5.02500 GHz



Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg (Y-Z Plane-Cut)
Plot Peak Gain(H/Hr)=3.2 dBi; Plot Peak Gain(V/Hr)=-0.5 dBi @Freq:5.02500 GHz



Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg (X-Y Plane-Cut)
Plot Peak Gain(H/Hr)=3.6 dBi; Plot Peak Gain(V/Hr)=-15.9 dBi @Freq:5.02500 GHz

