

Antenna Test Report (Passive-BW)

Manufacturer: Shenzhen Feixin Wireless Communication Co. LTD

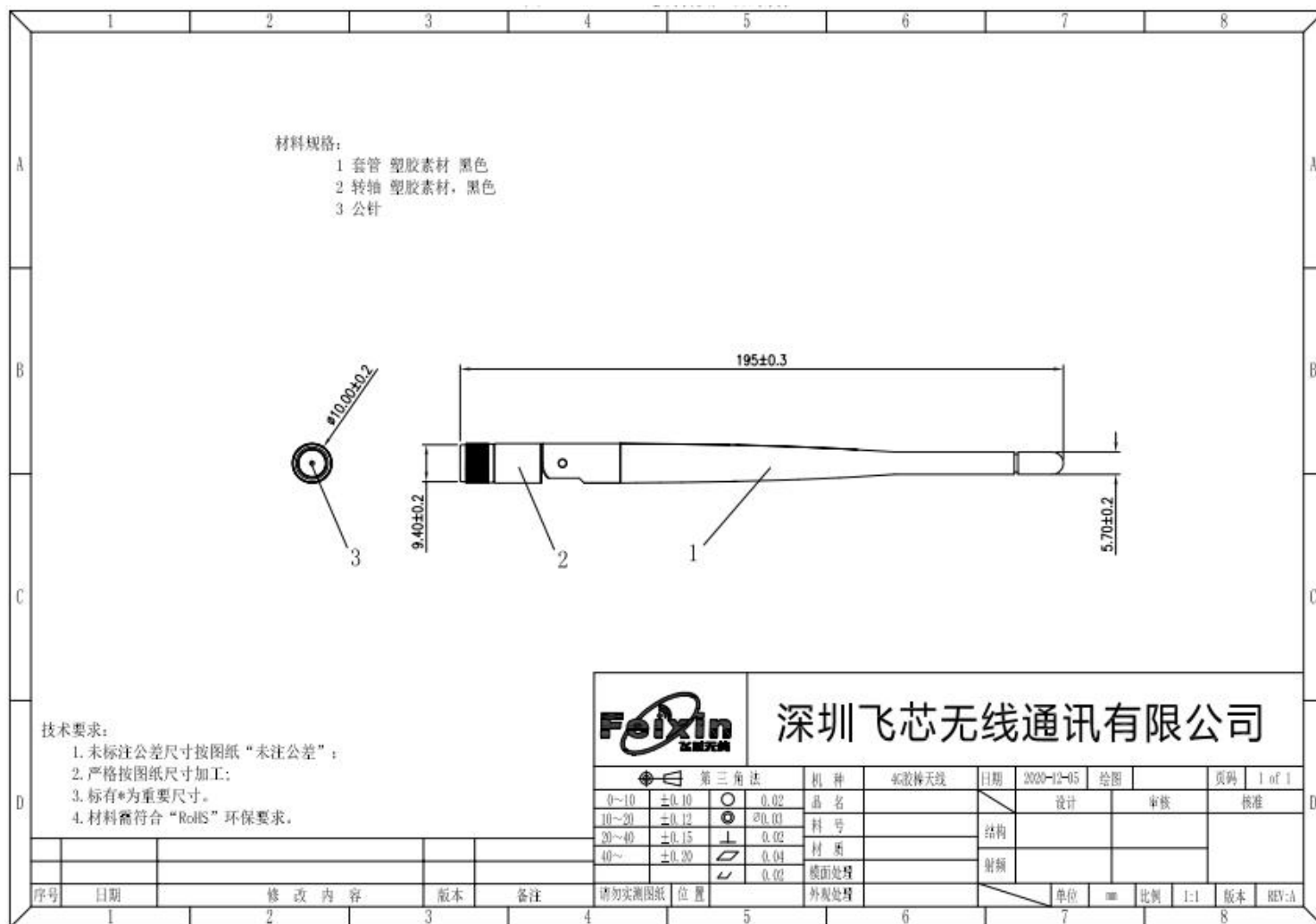
Address: 305, Building A, Changjing Robot Industrial Park, 104 Huanguan Middle Road, Longhua District, Shenzhen City, Guangdong Province

Antenna type : Stick antenna

Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
920.0	920.00	1.16	2.52	73.2%	-1.36	1.16	90	330	-31.04	0	90	-2.61	32.20	3.78	-28.42
930.0	930.00	1.12	2.60	71.1%	-1.48	1.12	90	330	-29.74	0	90	-2.77	30.86	3.88	-26.97
940.0	940.00	1.27	2.76	70.9%	-1.49	1.27	90	330	-26.70	0	90	-2.80	27.96	4.06	-23.90
950.0	950.00	1.05	2.79	67.0%	-1.74	1.05	90	330	-24.47	0	90	-3.06	25.52	4.11	-21.41
960.0	960.00	0.81	2.72	64.4%	-1.91	0.81	90	330	-22.88	0	120	-3.22	23.68	4.03	-19.66

Product picture





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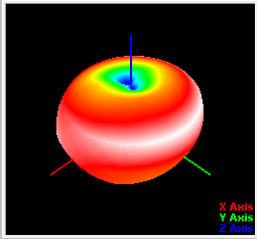
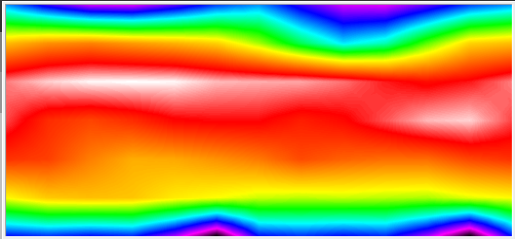
Passive -Freq 820.00MHz

H+V Total (30° Step)	0	30	60	90	120	150	180	210	240	270	300	330	360
	0	-11.51	-13.35	-14.80	-14.95	-13.76	-12.29	--	--	--	--	--	--
	30	-4.68	-3.88	-3.62	-4.08	-4.50	-5.07	-6.70	-8.98	-10.71	-9.86	-7.37	-5.12
	60	-0.08	0.68	1.06	1.13	1.06	0.48	0.36	0.30	-0.18	-1.00	-1.45	-1.05
	90	-0.60	-2.01	-2.47	-2.03	-1.31	-1.15	-1.17	-1.37	-0.49	0.43	0.70	--
	120	-2.13	-2.38	-3.55	-4.40	-4.31	-3.90	-3.44	-2.59	-3.01	-3.23	-3.20	-2.50
150	-5.82	-4.91	-4.72	-4.85	-5.53	-5.89	-6.32	-6.49	-6.36	-6.51	-6.63	-6.13	--
	180	-12.79	-12.45	-12.81	-12.53	-14.39	-17.51	--	--	--	--	--	--

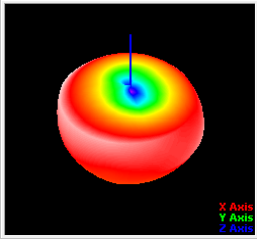
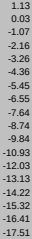
H (30° Step)	0	30	60	90	120	150	180	210	240	270	300	330	360
	0	-19.31	-15.01	-15.08	-16.15	-18.54	-18.70	--	--	--	--	--	--
	30	-5.48	-4.22	-3.83	-4.28	-4.95	-5.88	-8.40	-11.24	-12.36	-11.38	-9.09	-6.48
	60	-0.74	0.10	0.52	0.65	0.62	-0.01	-0.10	-0.01	-0.32	-1.13	-1.92	-1.82
	90	-1.19	-2.28	-2.53	-2.06	-1.49	-1.39	-1.44	-1.99	-1.50	-0.67	0.01	0.06
	120	-2.66	-2.92	-3.88	-4.54	-4.75	-4.75	-3.75	-3.43	-3.57	-3.43	-3.24	-2.77
150	-6.56	-5.44	-5.19	-5.45	-5.93	-6.04	-6.37	-6.55	-6.53	-6.70	-7.07	-6.71	--
	180	-13.86	-15.06	-18.00	-22.43	-21.50	-19.66	--	--	--	--	--	--

V (30° Step)	0	30	60	90	120	150	180	210	240	270	300	330	360
	0	-12.30	-18.37	-26.78	-21.13	-15.51	-13.41	--	--	--	--	--	--
	30	-12.45	-15.07	-16.81	-17.66	-14.54	-12.79	-11.59	-12.90	-15.73	-15.14	-12.21	-10.83
	60	-8.62	-8.35	-8.27	-8.75	-9.04	-9.26	-9.70	-11.21	-15.28	-16.23	-11.34	-8.97
	90	-9.58	-14.20	-20.94	-22.46	-15.35	-13.88	-13.39	-14.51	-16.86	-14.46	-9.88	-7.95
	120	-11.52	-11.75	-14.95	-19.44	-14.47	-11.41	-9.28	-10.15	-12.12	-16.80	-23.94	-14.68
150	-13.84	-14.30	-14.60	-13.74	-16.07	-20.52	-25.70	-25.01	-20.67	-20.15	-16.73	-15.15	--
	180	-19.38	-15.90	-14.38	-13.00	-15.33	-21.59	--	--	--	--	--	--

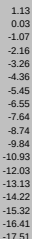
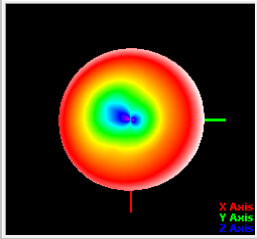
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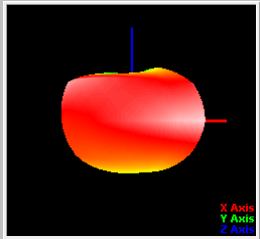
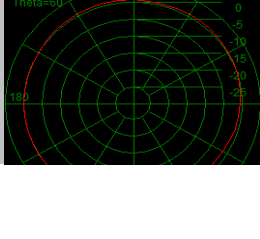
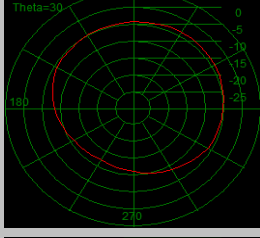
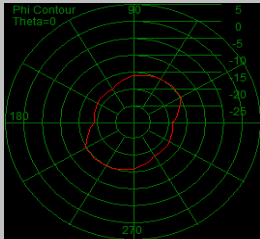
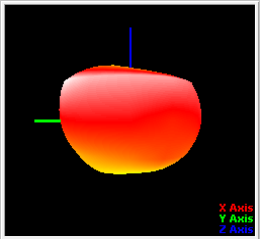
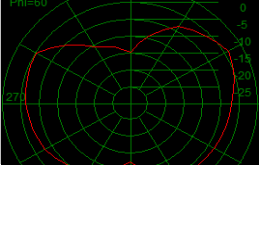
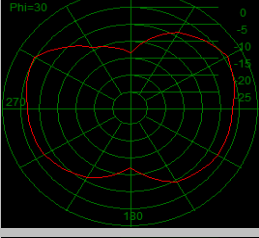
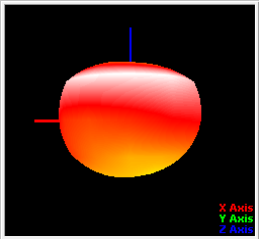
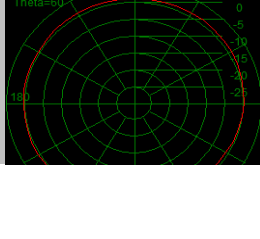
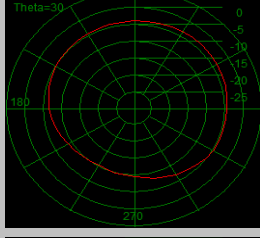
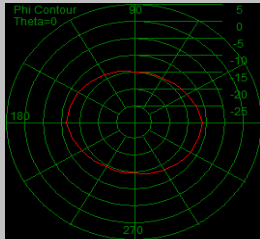
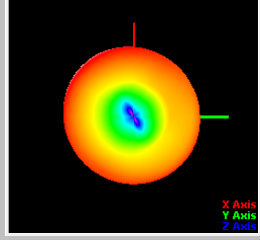
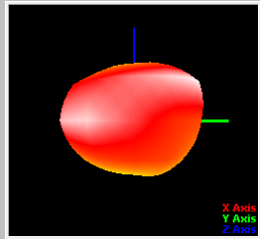
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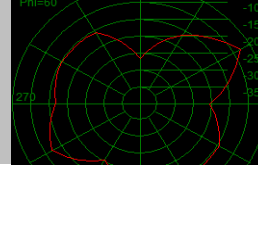
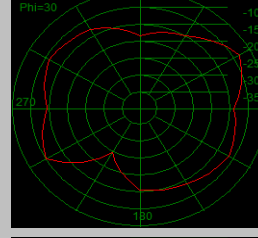
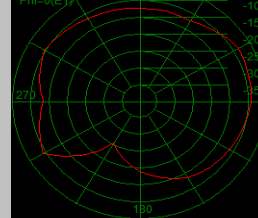
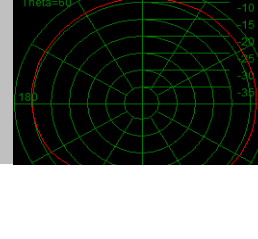
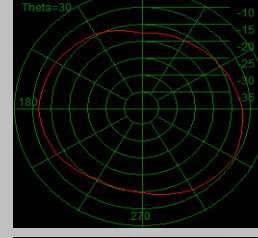
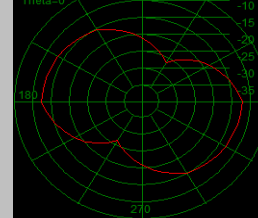
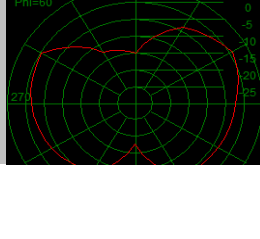
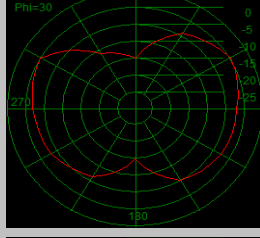
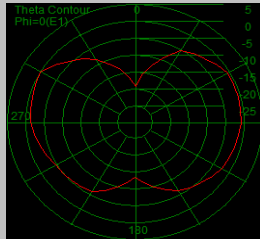
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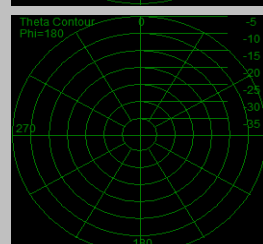
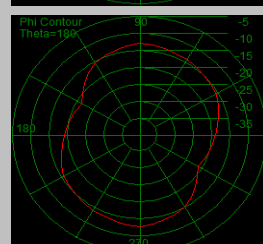
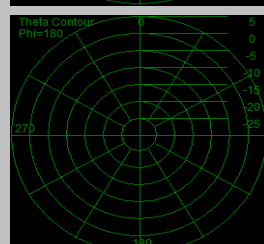
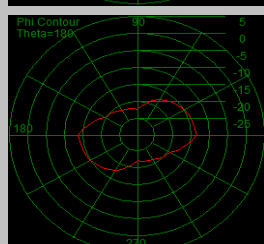
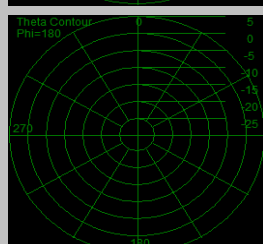
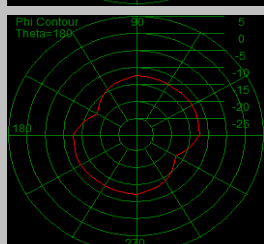
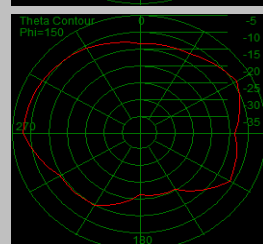
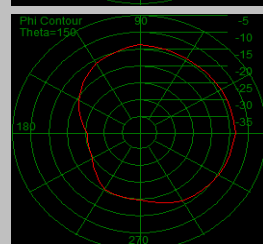
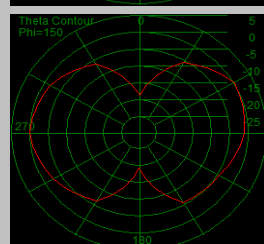
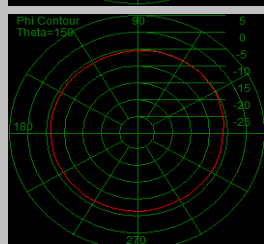
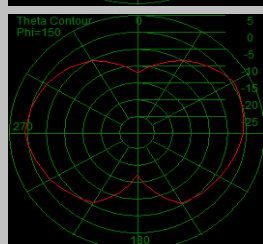
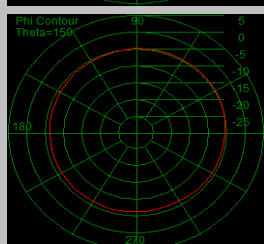
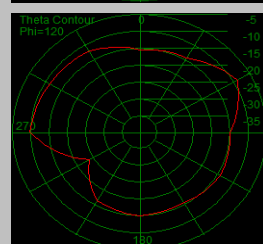
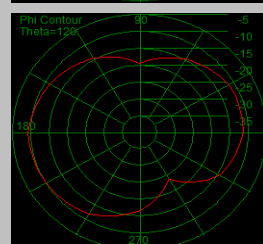
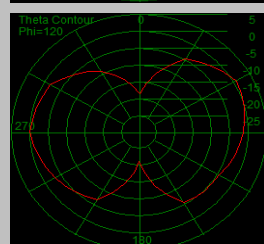
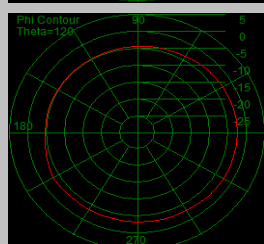
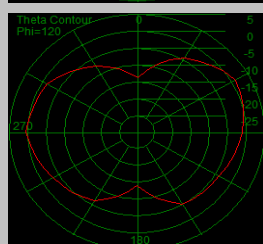
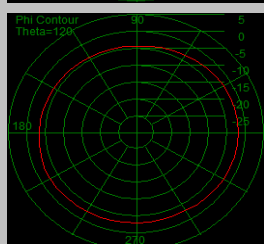
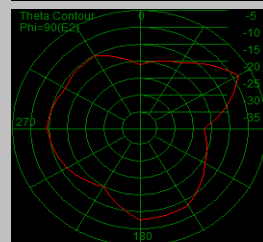
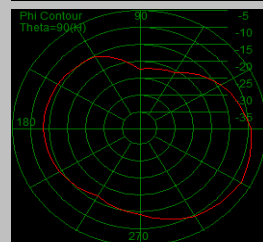
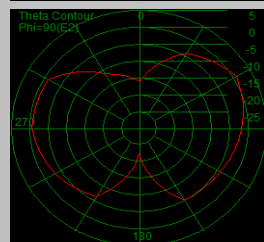
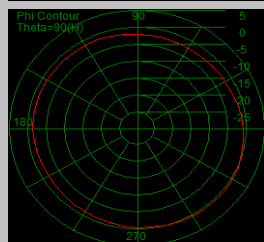
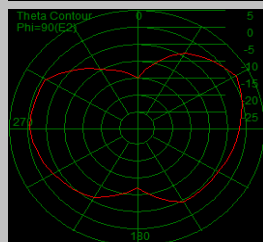
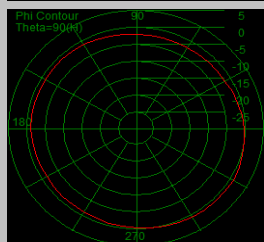
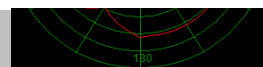
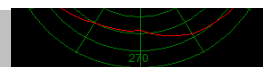
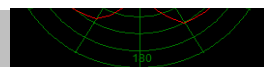
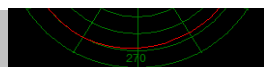
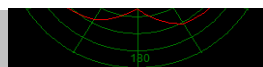
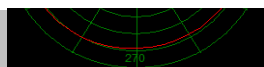


Coordination System Description:
Line Color XYZ Theta-Phi
Red L Axis X Theta90-Phi0
Green L Axis Y Theta90-Phi90
Blue L Axis Z Theta0



Theta Contour Plot for $\Phi=0(E1)$. The plot shows a red curve on a polar grid. The radial axis is labeled from 0 to 25 in increments of 5. The angular axis is labeled with 0, 90, and 180 degrees. The curve is symmetric about the 0/180 degree axis, with peaks at approximately 10 degrees and 170 degrees, reaching a radial value of about 15. The curve crosses the 90 and 270 degree axes at a radial value of approximately 5.





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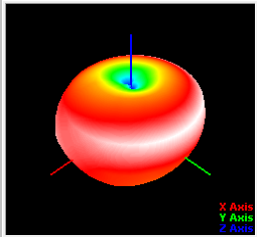
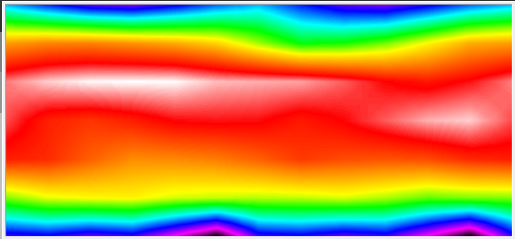
Passive -Freq 830.00MHZ

	0	30	60	90	120	150	180	210	240	270	300	330	360
H+V Total (30° Step)	0	-11.68	-12.09	-14.20	-14.57	-13.57	-12.32	--	--	--	--	--	--
	30	-3.87	-3.35	-3.35	-3.72	-4.16	-4.93	-6.72	-8.37	-8.13	-7.20	-5.66	-4.20
	60	0.44	1.28	1.68	1.75	1.72	1.08	0.94	0.83	0.15	-0.76	-1.20	-0.63
	90	-0.04	-1.41	-1.80	-1.36	-0.71	-0.59	-0.67	-1.26	-0.76	0.10	0.93	1.23
	120	-1.35	-1.60	-2.68	-3.55	-3.48	-3.24	-2.67	-1.91	-2.26	-2.41	-2.26	-1.60
	150	-7.01	-5.98	-5.71	-5.60	-6.18	-6.35	-6.45	-6.37	-6.10	-6.57	-7.29	-7.06
180	-13.87	-13.55	-14.29	-13.80	-15.87	-16.30	--	--	--	--	--	--	--

	0	30	60	90	120	150	180	210	240	270	300	330	360
H (30° Step)	0	-16.60	-14.03	-14.33	-16.61	-20.96	-20.18	--	--	--	--	--	--
	30	-4.69	-3.77	-3.56	-3.93	-4.64	-5.70	-8.18	-9.71	-8.56	-8.06	-7.03	-5.51
	60	-0.12	0.76	1.17	1.27	1.25	0.57	0.45	0.45	-0.01	-0.86	-1.51	-1.22
	90	-0.64	-1.67	-1.87	-1.38	-0.82	-0.75	-0.87	-1.45	-0.89	-0.14	0.47	0.57
	120	-1.53	-2.08	-2.97	-3.68	-3.84	-4.00	-3.93	-2.72	-2.86	-2.57	-2.21	-1.84
	150	-7.97	-6.60	-6.18	-6.18	-6.51	-6.40	-6.48	-6.39	-6.34	-6.98	-8.01	-7.95
180	-15.20	-17.29	-22.15	-27.89	-20.96	-18.82	--	--	--	--	--	--	--

	0	30	60	90	120	150	180	210	240	270	300	330	360
V (30° Step)	0	-13.07	-19.69	-29.43	-18.84	-14.45	-13.09	--	--	--	--	--	--
	30	-11.49	-14.04	-16.62	-16.90	-14.01	-12.38	-12.15	-14.13	-18.96	-14.63	-11.33	-10.05
	60	-8.75	-8.16	-7.80	-7.99	-8.08	-8.41	-8.76	-9.93	-14.11	-17.21	-12.77	-9.62
	90	-8.90	-13.65	-19.73	-23.97	-16.48	-15.12	-14.13	-14.96	-15.92	-12.50	-9.07	-7.26
	120	-11.17	-11.42	-14.56	-19.05	-14.48	-11.17	-8.67	-9.57	-11.19	-16.64	-26.79	-14.37
	150	-14.04	-14.78	-15.60	-14.62	-17.58	-26.44	-35.53	-29.82	-18.89	-17.05	-15.45	-14.37
180	-19.64	-15.94	-15.07	-13.98	-17.48	-27.78	--	--	--	--	--	--	--

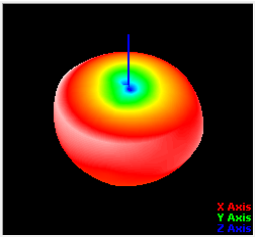
[Go to Cover Page](#)



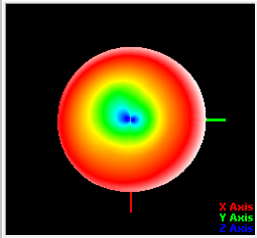
T45-P45



1.75
0.57
-0.6
-1.78
-2.96
-4.14
-5.32
-6.5
-7.68
-8.86
-10.04
-11.22
-12.4
-13.58
-14.76
-15.94
-17.12
-18.3



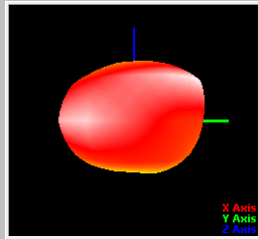
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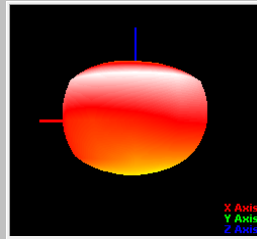
1.75
0.57
-0.6
-1.78
-2.96
-4.14
-5.32
-6.5
-7.68
-8.86
-10.04
-11.22
-12.4
-13.58
-14.76
-15.94
-17.12
-18.3

Coordination System Description:
Line Color XYZ Theta-Phi
Red L Axis X Theta90-Phi0
Green L Axis Y Theta90-Phi90
Blue L Axis Z Theta0

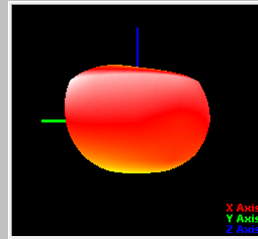
T0-P0



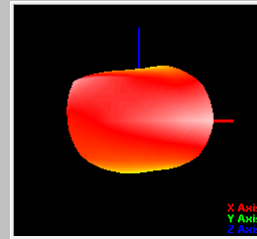
T90-P90



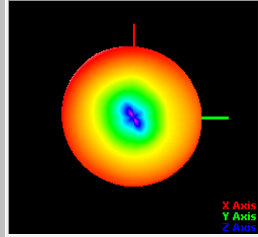
T90-P180



T90-P270



T90-P0



T180-P0

