

Antenna Specification

Contact Us

Shenzhen DX-SMART Technology Co., Ltd.

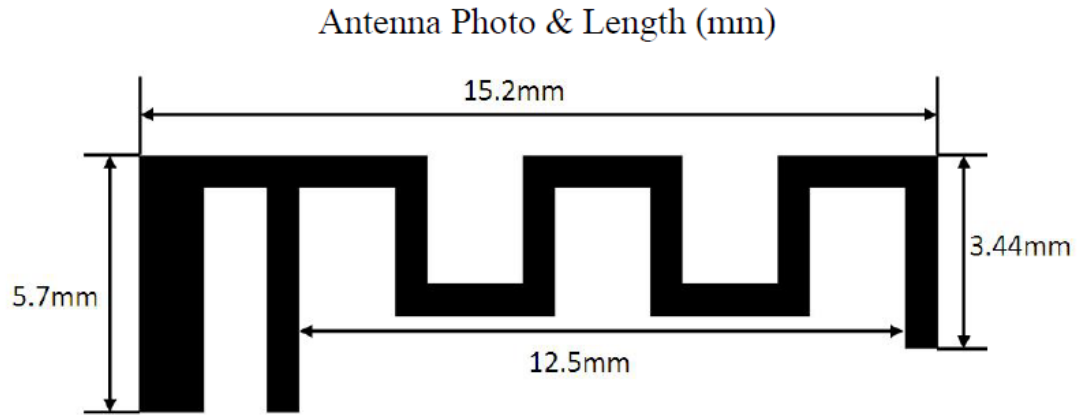
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1. Antenna Size Diagram(mm)



2. Antenna Efficiency And Gain

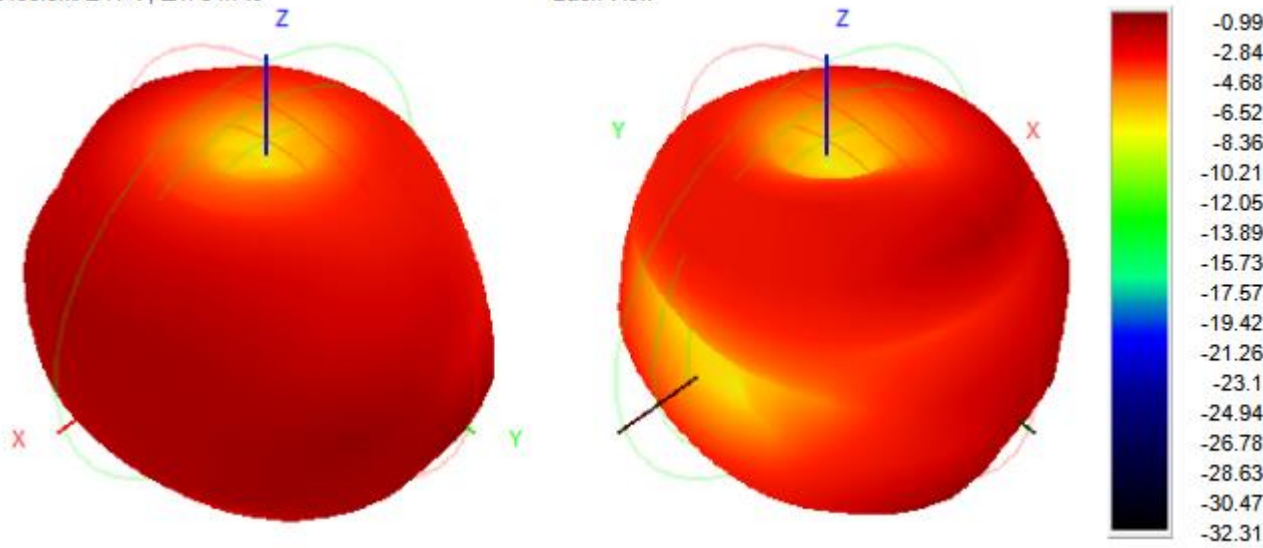
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-4.60	-4.45	-4.16	-3.91	-4.10	-4.42	-4.89	-5.15	-5.56	-5.80	-6.19
Gain (dBi)	-0.99	-0.84	-0.50	-0.10	-0.53	-0.92	-1.32	-1.34	-1.61	-1.76	-2.26
Efficiency (%)	34.69	35.87	38.35	40.67	38.90	36.10	32.41	30.53	27.81	26.29	24.05
Directivity (dB)	3.60	3.61	3.67	3.81	3.57	3.51	3.57	3.81	3.94	4.04	3.93
Peak Gain Position (Theta)	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
Peak Gain Position (Phi)	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00
Efficiency ThetaPol (%)	22.46	23.33	25.01	26.51	26.22	24.45	21.97	20.62	18.76	17.73	16.25
Efficiency PhiPol (%)	12.23	12.55	13.34	14.15	12.68	11.65	10.44	9.91	9.05	8.56	7.80
Upper Hem. Efficiency (%)	16.65	17.05	18.15	19.24	18.54	17.03	15.10	14.08	12.74	11.99	10.95
Lower Hem. Efficiency (%)	18.04	18.82	20.20	21.43	20.37	19.07	17.32	16.45	15.07	14.31	13.09

T90(H)Roundness	13.42	14.01	14.68	14.90	13.06	14.30	15.22	16.35	17.22	17.77	19.01
E1(XZ)Wave flap width	89.00	87.00	65.00	62.00	57.00	58.00	77.00	76.00	76.00	76.00	77.00
E1(XZ)front-to-back ratio	4.69	4.81	5.17	5.38	5.62	5.42	5.08	4.86	4.49	4.28	4.12
E2(YZ)Wave flap width	62.00	60.00	60.00	59.00	59.00	57.00	56.00	54.00	54.00	55.00	56.00
E2(YZ)front-to-back ratio	4.14	3.97	3.83	3.80	3.33	3.19	3.08	3.29	3.36	3.38	3.28
Axis ratio at maximum gain(P)	11.64	11.14	10.48	9.99	8.49	8.21	8.00	7.84	7.67	7.55	7.59
vertex(Theta=0)Axis ratio(P)	23.32	19.24	11.31	9.01	12.83	12.84	13.29	14.39	15.52	18.66	21.24
Elevation angle 10 degrees worst (large) axis ratio(P)	49.84	52.52	52.07	52.01	55.35	55.09	51.77	51.29	53.43	54.14	55.70
Hc(XY)Wave flap width	228.00	227.00	228.00	231.00	238.00	234.00	231.00	227.00	223.00	223.00	224.00
Hc(XY)Front to back ratio	0.54	0.52	0.42	0.13	0.07	0.31	0.44	0.64	0.69	0.66	0.75
Left-hand circular polarization efficiency(%)	18.53	19.32	20.68	21.50	19.99	18.77	16.82	15.58	14.05	13.12	11.98
Left-hand circular polarization efficiency(%)	16.16	16.56	17.67	19.16	18.92	17.33	15.59	14.96	13.77	13.17	12.06

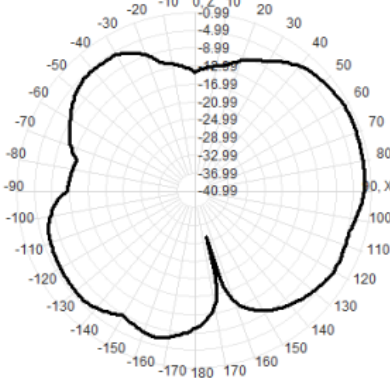
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2400.0MHz H+V, Eff: 34.7%

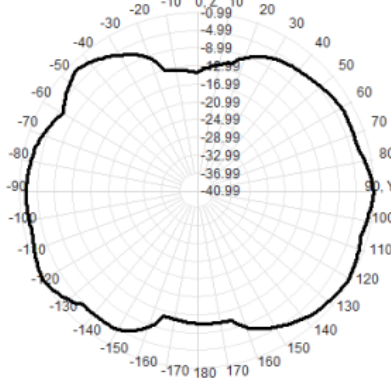
Back View



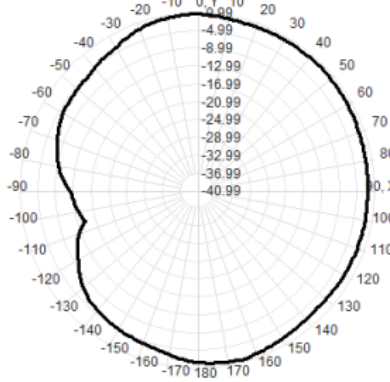
2400.0MHz Total(E1-XZ), Max=-2.23dBi



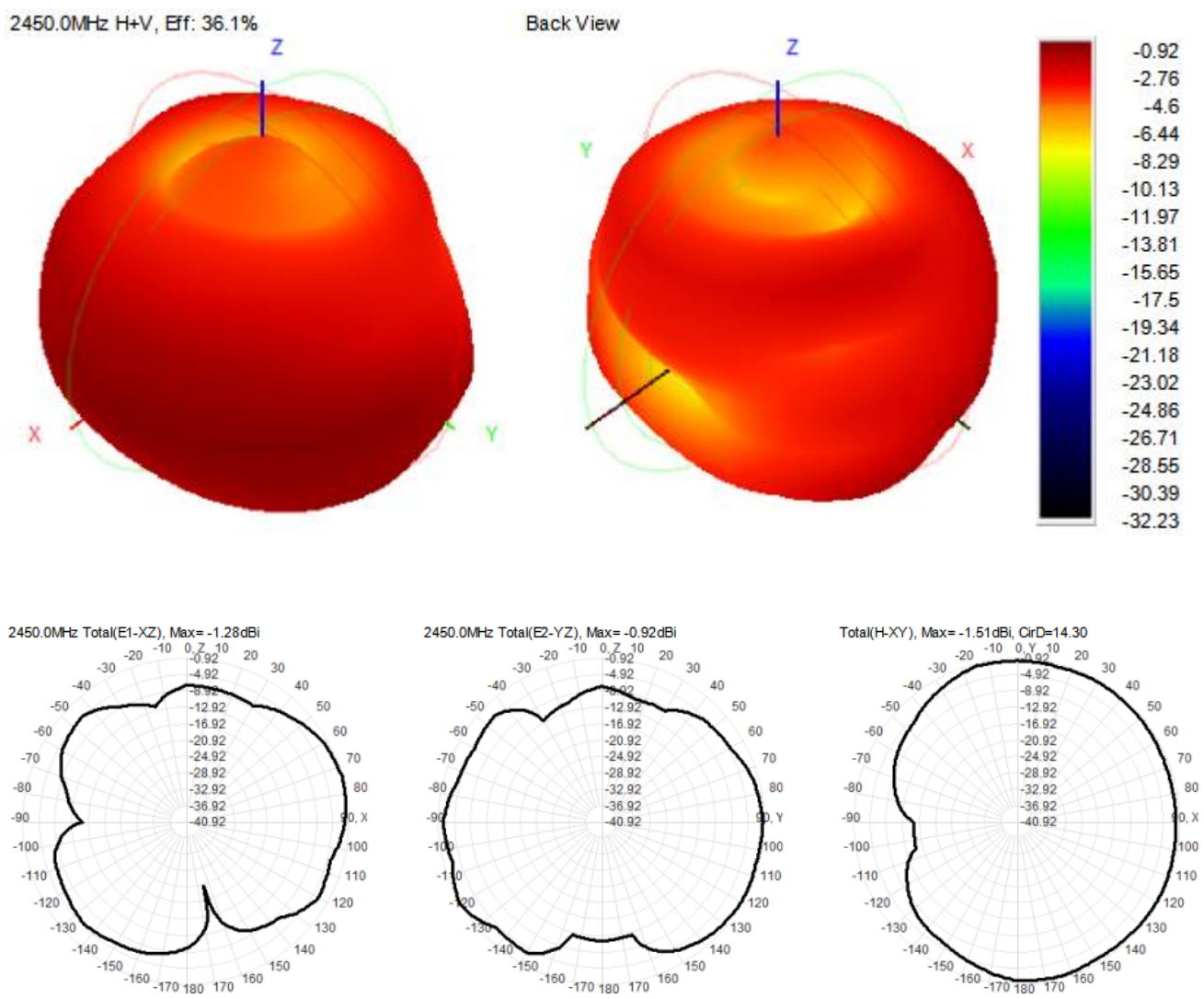
2400.0MHz Total(E2-YZ), Max=-0.99dBi



Total(H-XY), Max=-1.33dBi, CirD=13.42

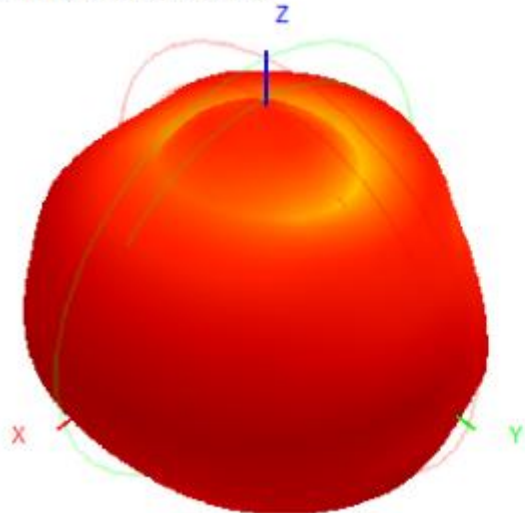


Antenna Specification

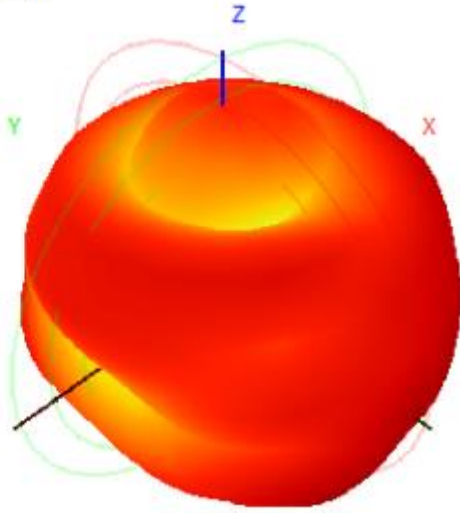


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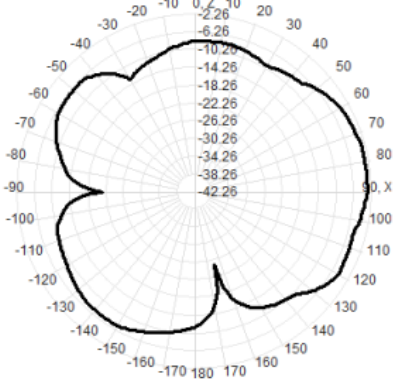
2500.0MHz H+V, Eff: 24.0%



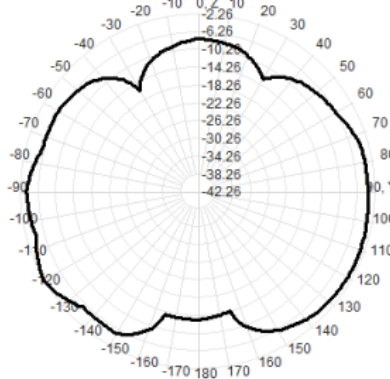
Back View



2500.0MHz Total(E1-XZ), Max= -3.38dBi



2500.0MHz Total(E2-YZ), Max= -2.26dBi



Total(H-XY), Max= -2.62dBi, CirD=19.01

