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Shenzhen

DX-BT04-E02 Antenna Specification

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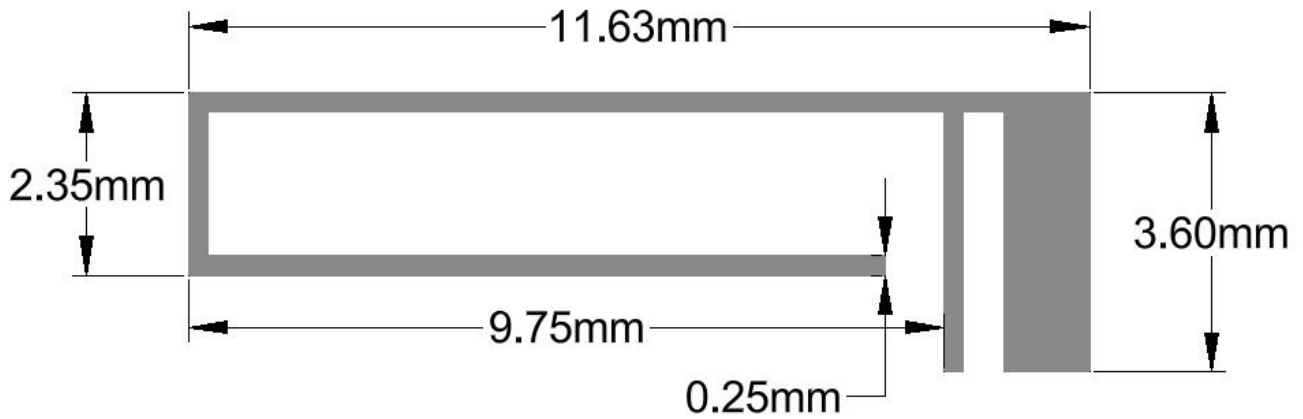
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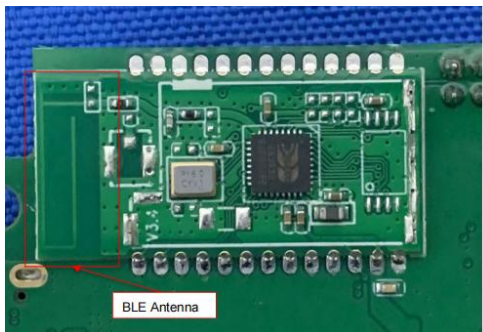
1. Antenna Size Diagram



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

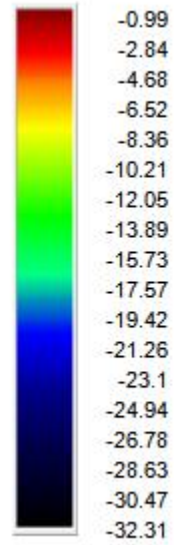
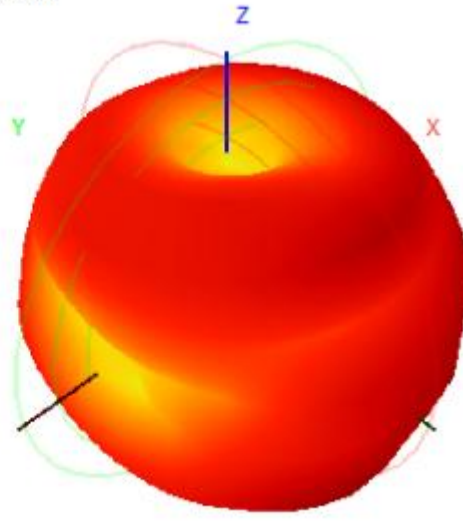
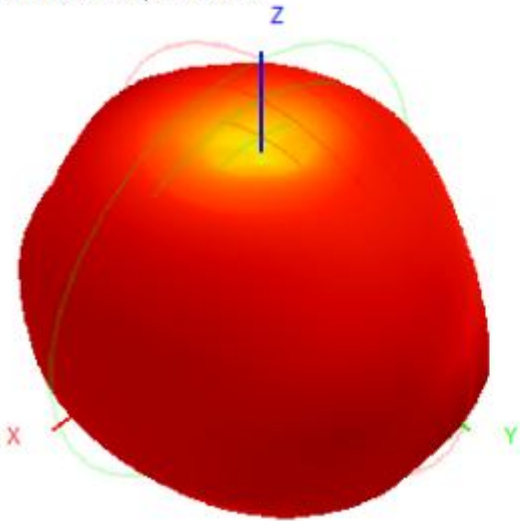
T90(H)Roundness	13.42	14.01	14.68	14.90	13.06	14.30	15.22	16.35	17.22	17.77	19.01
E1(XZ)Wave flap width	89.00	87.00	65.00	62.00	57.00	58.00	77.00	76.00	76.00	76.00	77.00
E1(XZ)front-to-back ratio	4.69	4.81	5.17	5.38	5.62	5.42	5.08	4.86	4.49	4.28	4.12
E2(YZ)Wave flap width	62.00	60.00	60.00	59.00	59.00	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



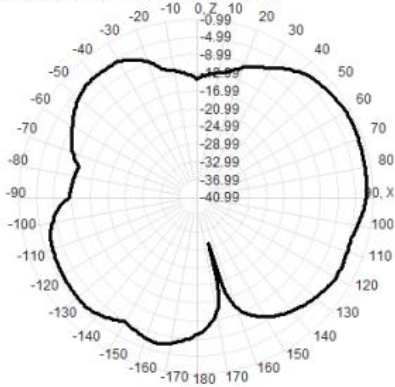


2400.0MHz H+V, Eff: 34.7%

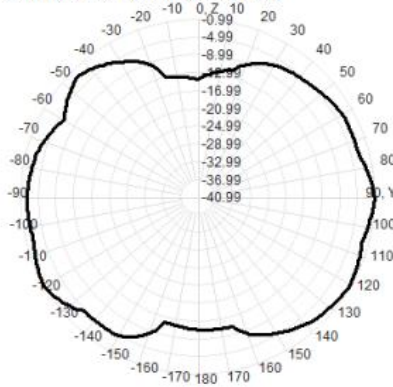
Back View



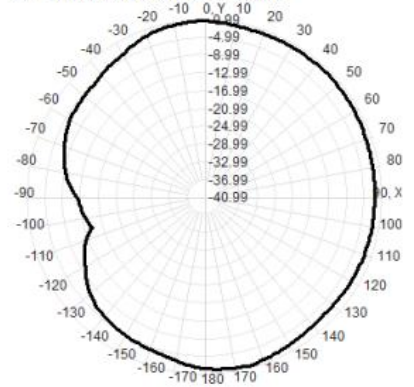
2400.0MHz Total(E1-XZ), Max=-2.23dBi



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

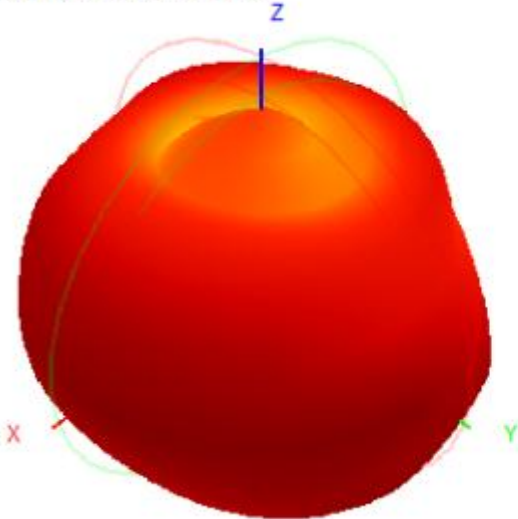


Total(H-XY), Max=-1.33dBi, CirD=13.42

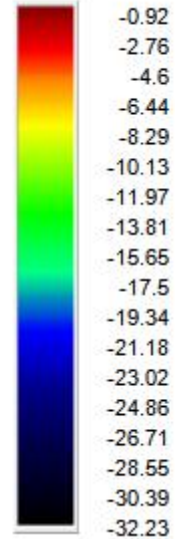
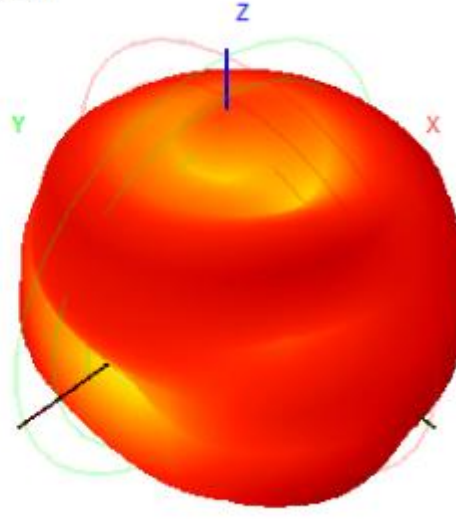




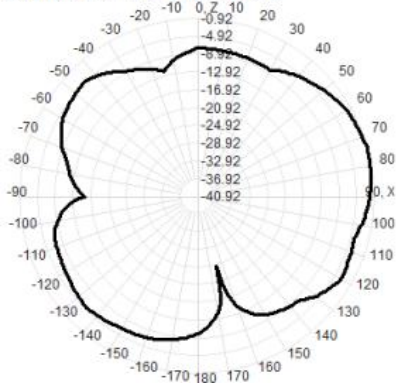
2450.0MHz H+V, Eff: 36.1%



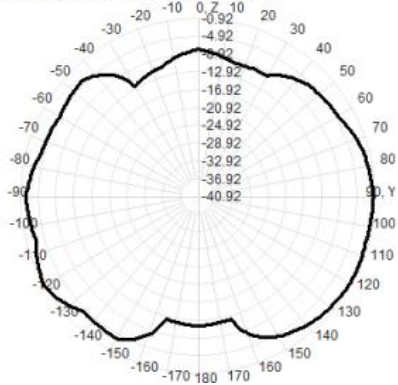
Back View



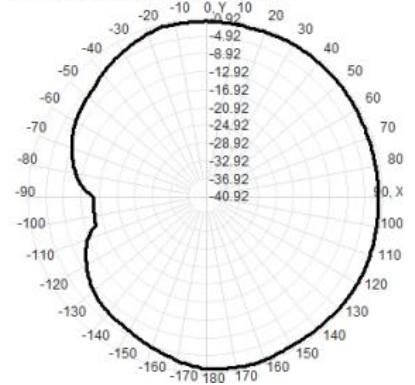
2450.0MHz Total(E1-XZ), Max=-1.28dBi



2450.0MHz Total(E2-YZ), Max=-0.92dBi



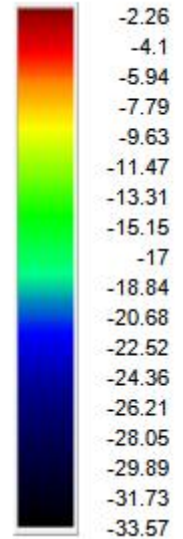
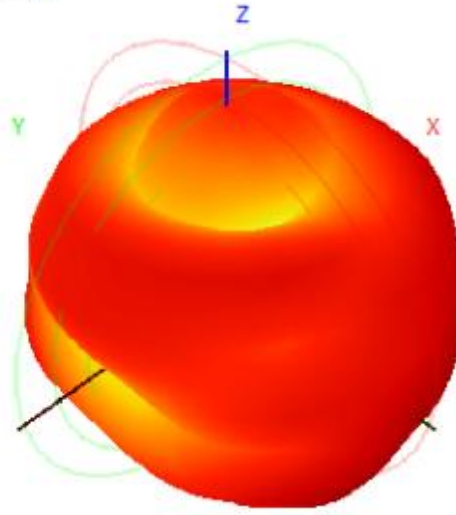
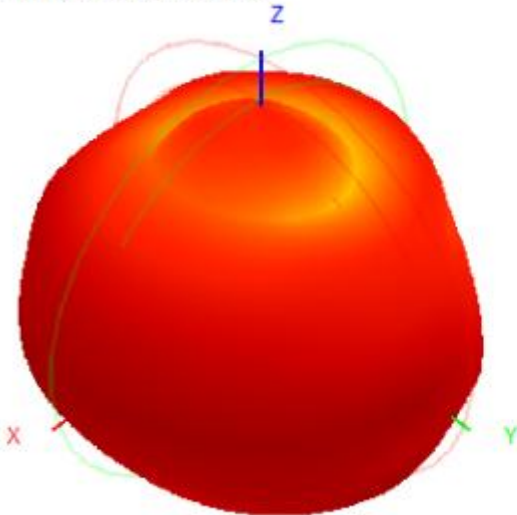
Total(H-XY), Max=-1.51dBi, CirD=14.30



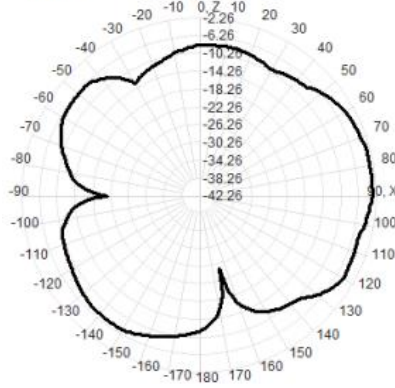


2500.0MHz H+V, Eff: 24.0%

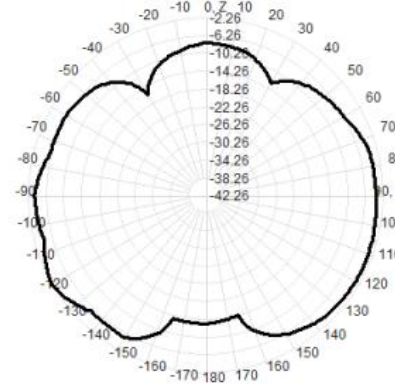
Back View



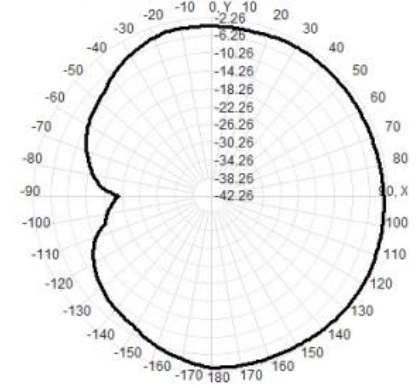
2500.0MHz Total(E1-XZ), Max=-3.38dBi



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



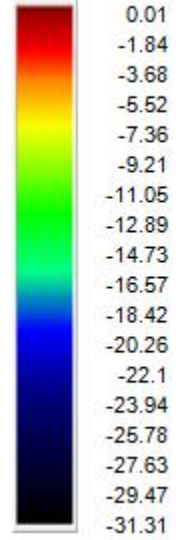
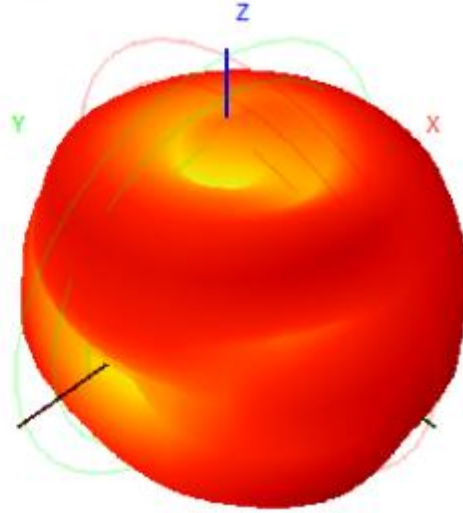
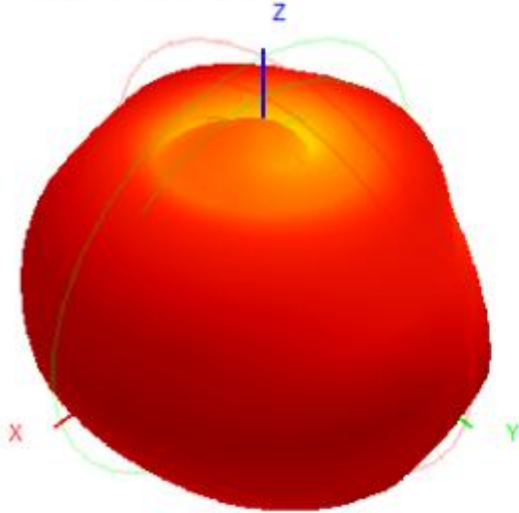
Total(H-XY), Max=-2.62dBi, CirD=19.01



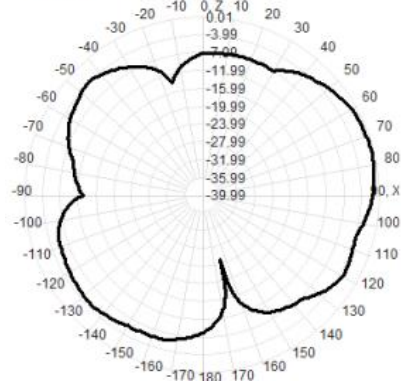


2430.0MHz H+V, Eff: 42.2%

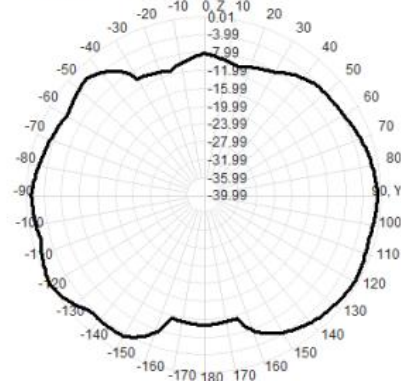
Back View



2430.0MHz Total(E1-XZ), Max=-0.68dBi



2430.0MHz Total(E2-YZ), Max=0.01dBi



Total(H-XY), Max=-0.70dBi, CirD=12.73

