

DX-BT37 Antenna data sheet

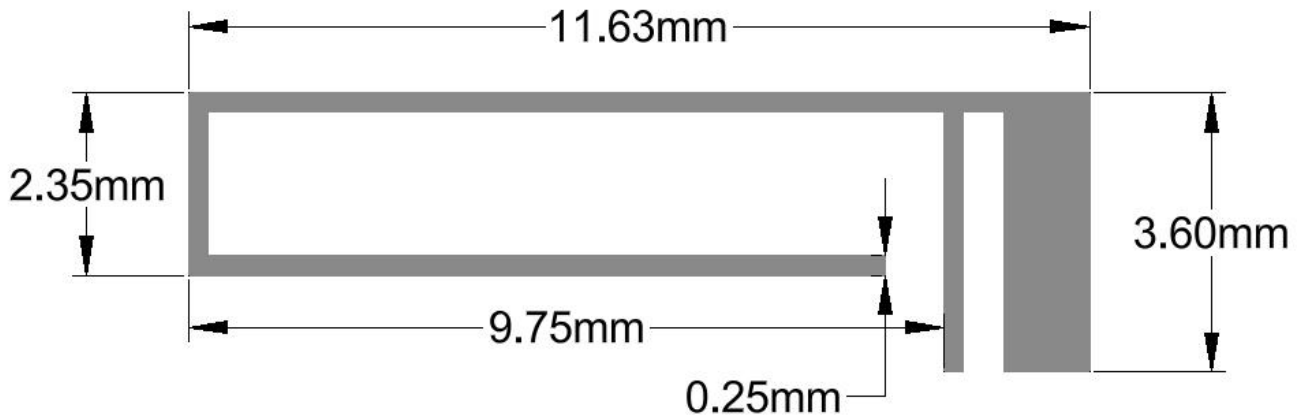
Antenna Type: PCB antenna

Peak Gain: -0.1dBi

Manufacture: Shenzhen DX-SMART Technology Co., Ltd.

Add: Room 601, Block A1, Huafeng Zhigu, Hangkong Road, Baoan District, Shenzhen

1. Antenna Size Diagram



2. Antenna Efficiency And Gain

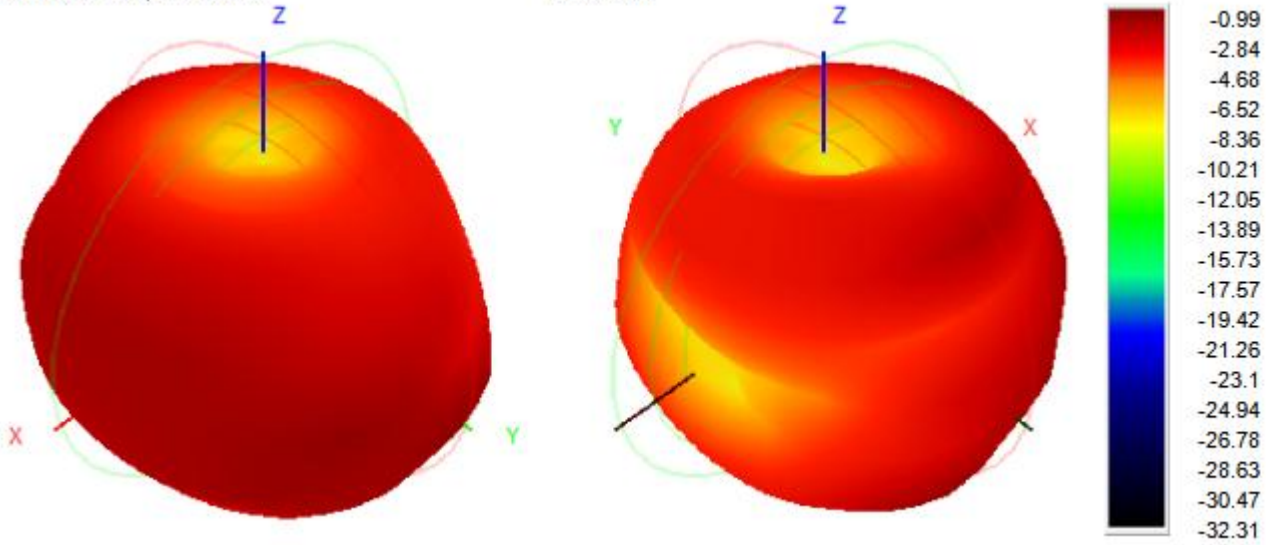
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-4.60	-4.45	-4.16	-3.91	-4.10	-4.42	-4.89	-5.15	-5.56	-5.80	-6.19
Gain (dBi)	-0.99	-0.84	-0.50	-0.10	-0.53	-0.92	-1.32	-1.34	-1.61	-1.76	-2.26
Efficiency (%)	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

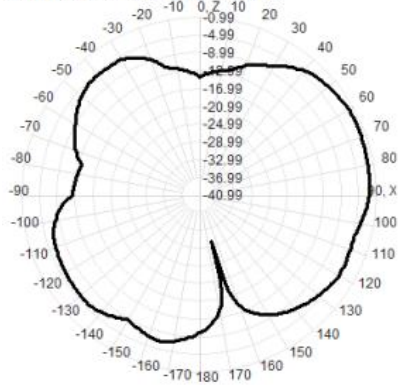
DX-BT37 Antenna Specification

2400.0MHz H+V, Eff: 34.7%

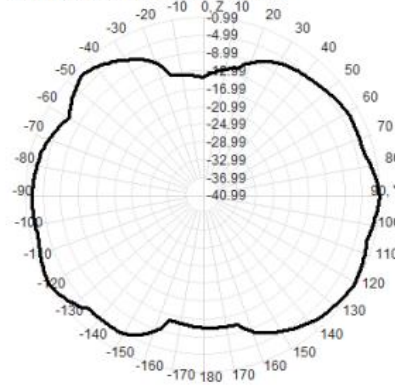
Back View



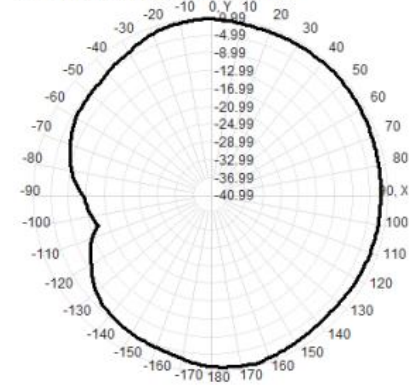
2400.0MHz Total(E1-XZ), Max=-2.23dBi



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

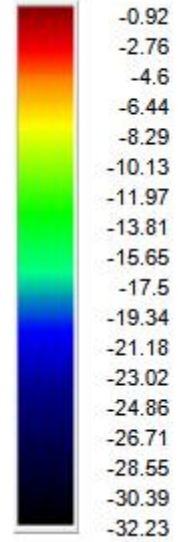
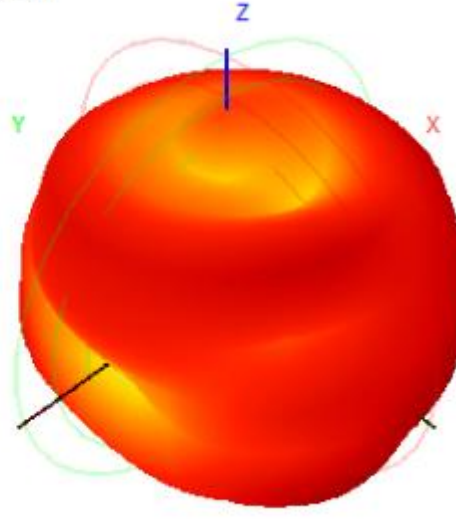
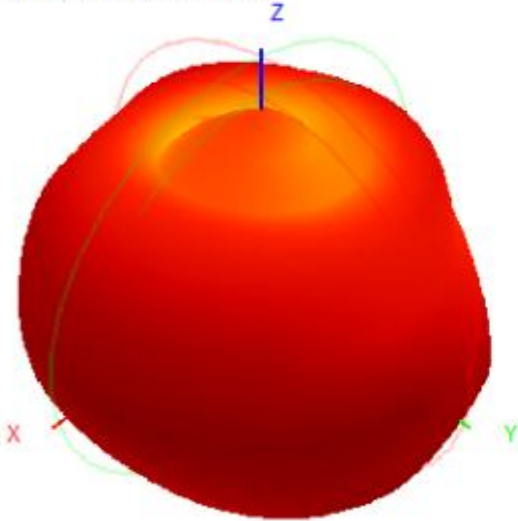


Total(H-XY), Max=-1.33dBi, CirD=13.42

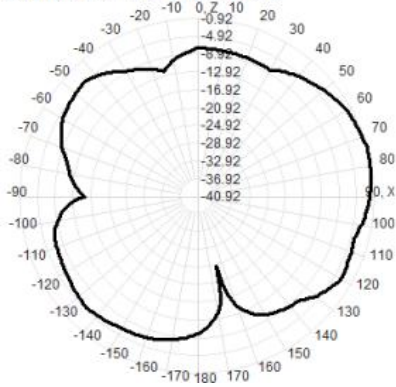


2450.0MHz H+V, Eff: 36.1%

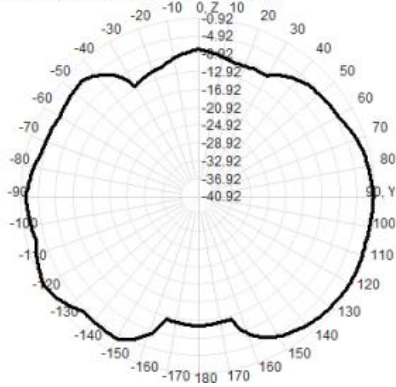
Back View



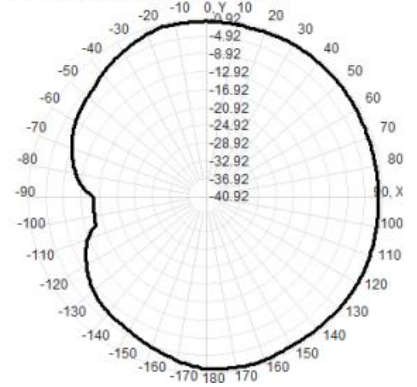
2450.0MHz Total(E1-XZ), Max=-1.28dBi



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

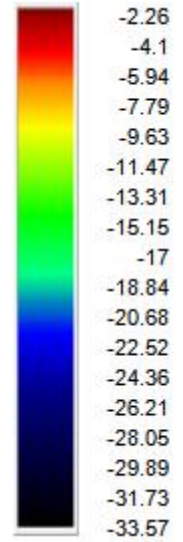
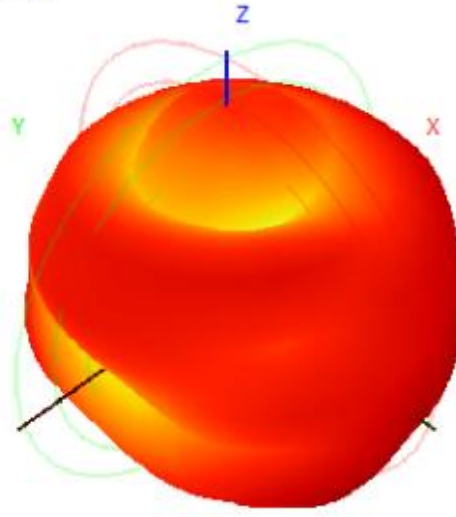
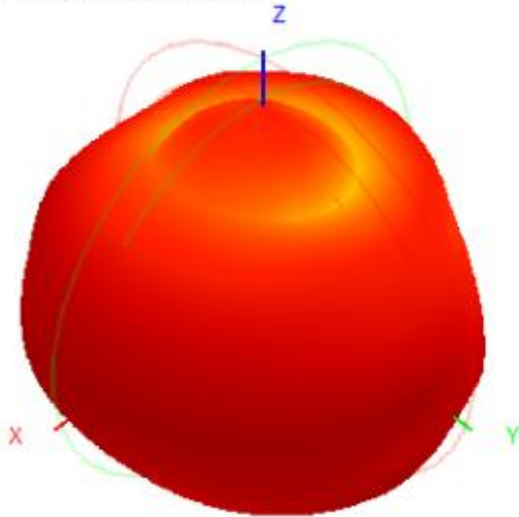


Total(H-XY), Max=-1.51dBi, CirD=14.30

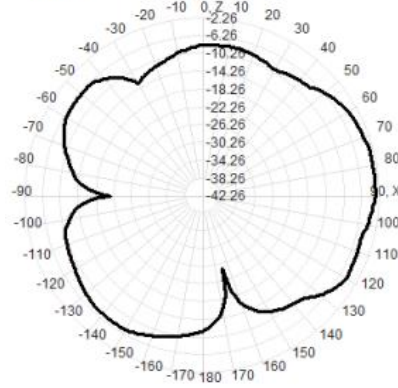


2500.0MHz H+V, Eff: 24.0%

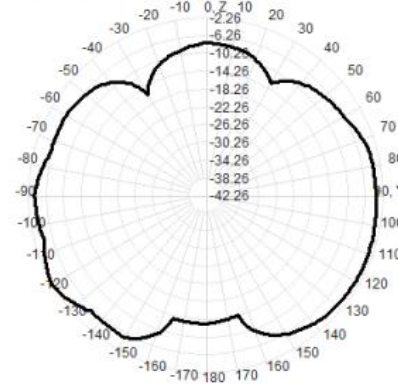
Back View



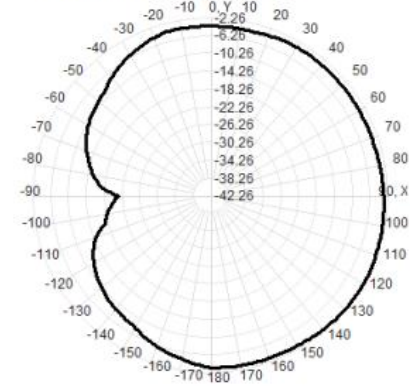
2500.0MHz Total(E1-XZ), Max=-3.38dBi



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

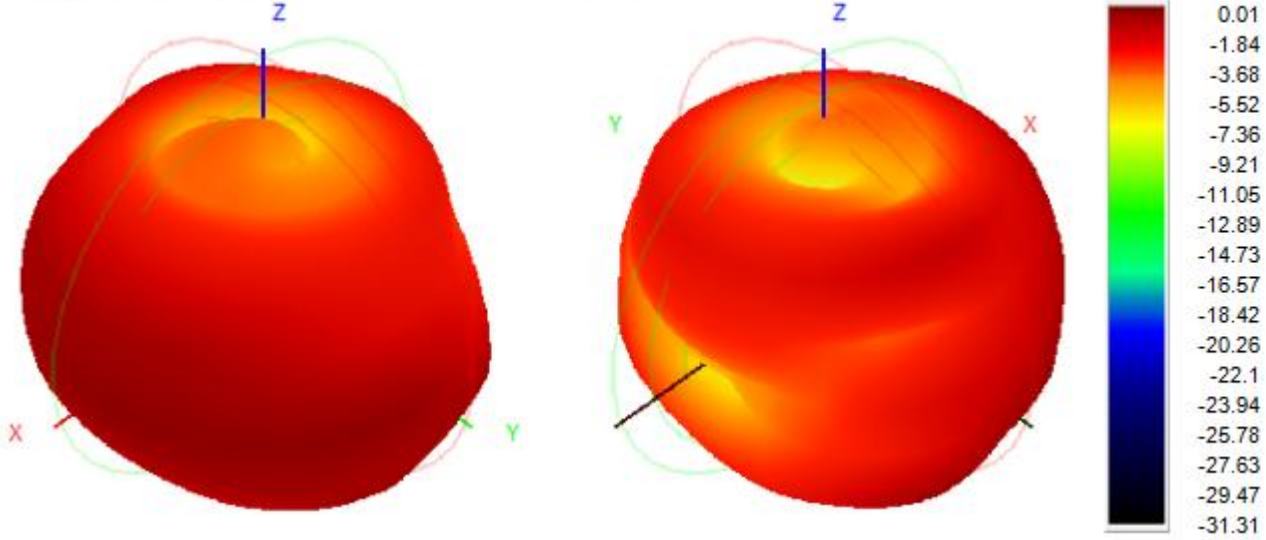


Total(H-XY), Max=-2.62dBi, CirD=19.01



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

