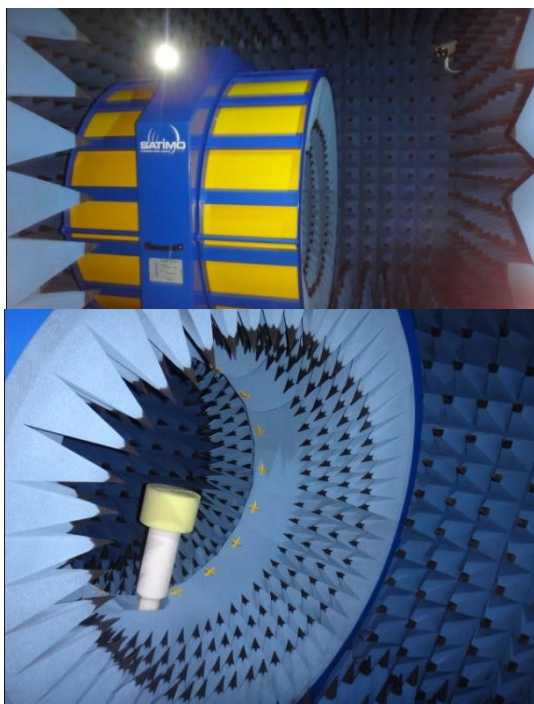






Manufacturer: Shenzhen HX Antenna Co., LTD
Test Report



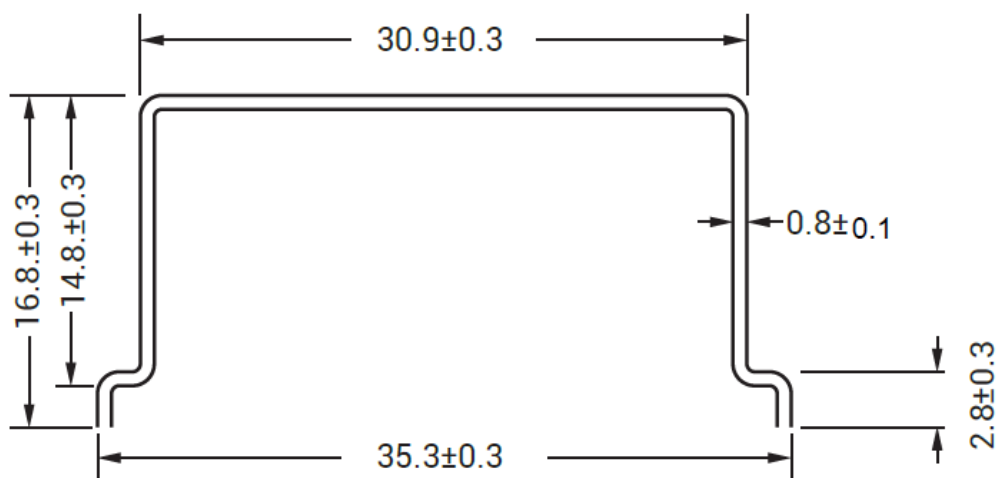


-  Report Version
-  Antenna Physical Image
-  VSWR & Return Loss
-  Gain & Efficiency & Radiation Pattern

一： Report version

Version	Date	Content Summary
V1.0	2024/5/23	Initial Version

二：Antenna Physical Image



unit: mm

三：VSWR & Return Loss



四： Gain & Efficiency & Radiation Pattern

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950
Efficiency (dBi)	-5.16	-5.08	-4.88	-4.64	-4.50	-4.36	-4.23	-4.06	-3.84	-3.74	-3.69	-3.51	-3.34	-3.29	-3.24
Gain (dBi)	-0.18	-0.18	-0.12	0.00	0.04	0.03	0.19	0.44	0.78	1.02	1.24	1.56	1.82	2.01	2.13
Efficiency (%)	30.47	31.06	32.50	34.35	35.51	36.61	37.73	39.29	41.33	42.24	42.76	44.61	46.30	46.85	47.48
Directivity (dB)	4.98	4.90	4.76	4.64	4.53	4.39	4.43	4.50	4.62	4.76	4.93	5.07	5.16	5.30	5.37
Peak Gain Position (Theta)	15.00	15.00	15.00	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Peak Gain Position (Phi)	105.00	105.00	105.00	105.00	105.00	105.00	240.00	240.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00
Efficiency ThetaPol (%)	18.68	19.11	20.01	21.23	22.02	22.66	23.23	24.10	25.23	25.64	25.79	26.71	27.51	27.69	27.97
Efficiency PhiPol (%)	11.79	11.96	12.49	13.12	13.50	13.95	14.50	15.19	16.10	16.60	16.97	17.90	18.79	19.16	19.50
Upper Hem. Efficiency (%)	23.07	23.44	24.42	25.69	26.41	27.07	27.77	28.78	30.18	30.80	31.20	32.60	33.89	34.31	34.75
Lower Hem. Efficiency (%)	7.40	7.62	8.08	8.66	9.11	9.54	9.96	10.50	11.14	11.43	11.55	12.01	12.41	12.53	12.72

T90(H)圆度	4.64	4.58	4.50	4.36	4.16	4.31	4.40	4.38	4.40	4.45	4.50	4.50	4.54	4.55	4.80
Gain 15deg (dBi)															
E1(XZ)波瓣宽度	111.00	114.00	114.00	116.00	117.00	116.00	116.00	113.00	106.00	99.00	93.00	87.00	83.00	81.00	77.00
E1(XZ)前后比	4.11	3.98	3.95	3.78	3.57	3.44	3.28	3.18	3.20	3.24	3.33	3.49	3.64	3.85	4.11
E2(YZ)波瓣宽度	116.00	118.00	119.00	123.00	124.00	126.00	129.00	131.00	131.00	132.00	133.00	133.00	135.00	135.00	137.00
E2(YZ)前后比	5.97	5.87	5.80	5.59	5.46	5.36	5.26	5.23	5.36	5.46	5.61	5.58	5.64	5.61	5.52
最大增益处轴比(P)	10.57	10.49	10.44	10.50	10.49	10.55	4.52	4.71	5.62	5.91	6.28	6.54	6.98	7.34	7.85
顶点(Theta=0)处轴比(P)	9.09	8.98	8.82	8.74	8.73	8.61	8.49	8.41	8.39	8.36	8.29	8.13	8.12	8.06	8.17
仰角10度最宽(大)轴比(P)	50.50	54.58	57.50	61.44	63.06	97.22	50.64	48.61	54.49	63.15	52.50	46.54	68.07	48.97	45.58
Hc(XY)波瓣宽度	190.00	184.00	183.00	183.00	184.00	183.00	165.00	159.00	152.00	147.00	143.00	140.00	139.00	139.00	134.00
Hc(XY)前后比	0.31	0.20	0.16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
左旋圆极化效率(%)	20.46	20.82	21.68	22.83	23.54	24.17	24.86	25.77	27.07	27.63	27.97	29.23	30.40	30.85	31.31
右旋圆极化效率(%)	10.01	10.24	10.82	11.52	11.98	12.44	12.87	13.52	14.25	14.61	14.79	15.38	15.90	16.00	16.17

