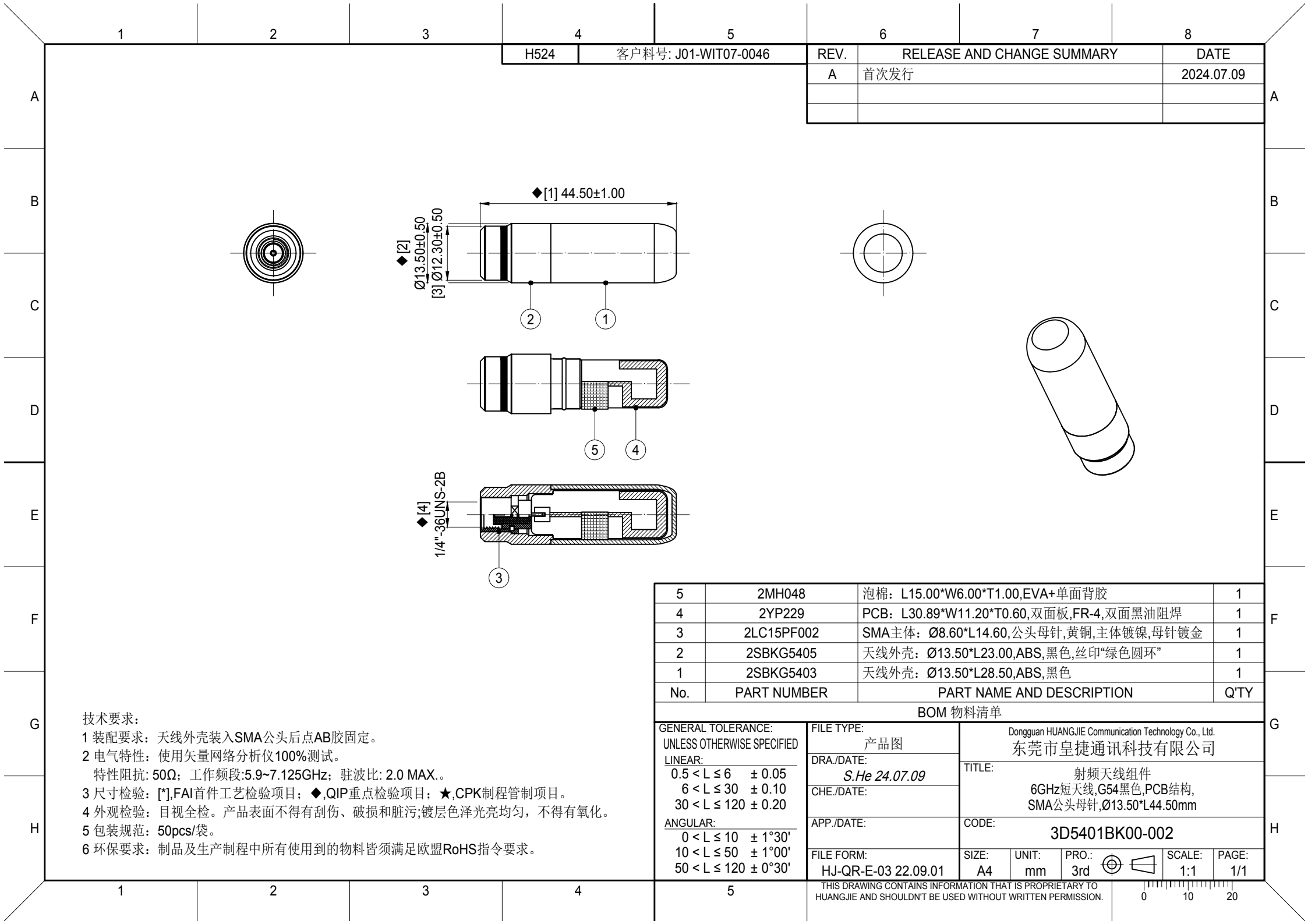


SPECIFICATION FOR APPROVAL

CUSTOMER	Chengdu Accsoon Technology Co., LTD.
CUS. CODE	
CUS. MODEL	
HJ-Tech CODE	3D5401BK00-002
PRO. NAME	
SPECIFICATION DESCRIPTION	ø13. 50xL44. 50mm
DATE	2024/8/20

/ SUPPLIER		
PREPARER	CHECKER	APPROVER
 S. He		

/ CUSTOMER		
TRANSCTOR	CHECKER	APPROVER



技术要求:

- 1 装配要求: 天线外壳装入SMA公头后点AB胶固定。
- 2 电气特性: 使用矢量网络分析仪100%测试。
- 特性阻抗: 50Ω; 工作频段:5.9~7.125GHz; 驻波比: 2.0 MAX.。
- 3 尺寸检验: [*],FAI首件工艺检验项目; ◆,QIP重点检验项目; ★,CPK制程管制项目。
- 4 外观检验: 目视全检。产品表面不得有刮伤、破损和脏污;镀层色泽光亮均匀,不得有氧化。
- 5 包装规范: 50pcs/袋。
- 6 环保要求: 制品及生产制程中所有使用到的物料皆须满足欧盟RoHS指令要求。

5	2MH048	泡棉: L15.00*W6.00*T1.00,EVA+单面背胶	1
4	2YP229	PCB: L30.89*W11.20*T0.60,双面板,FR-4,双面黑油阻焊	1
3	2LC15PF002	SMA主体: Ø8.60*L14.60,公头母针,黄铜,主体镀镍,母针镀金	1
2	2SBKG5405	天线外壳: Ø13.50*L23.00,ABS,黑色,丝印“绿色圆环”	1
1	2SBKG5403	天线外壳: Ø13.50*L28.50,ABS,黑色	1
No.	PART NUMBER	PART NAME AND DESCRIPTION	Q'TY

BOM 物料清单

GENERAL TOLERANCE: UNLESS OTHERWISE SPECIFIED LINEAR: 0.5 < L ≤ 6 ± 0.05 6 < L ≤ 30 ± 0.10 30 < L ≤ 120 ± 0.20 ANGULAR: 0 < L ≤ 10 ± 1°30' 10 < L ≤ 50 ± 1°00' 50 < L ≤ 120 ± 0°30'		FILE TYPE: 产品图	Dongguan HUANGJIE Communication Technology Co., Ltd. 东莞市皇捷通讯科技有限公司		
		DRA./DATE: S.He 24.07.09			
		CHE./DATE:	TITLE: 射频天线组件 6GHz短天线,G54黑色,PCB结构, SMA公头母针,Ø13.50*L44.50mm		
		APP./DATE:	CODE: 3D5401BK00-002		
FILE FORM: HJ-QR-E-03 22.09.01		SIZE: A4	UNIT: mm	PRO.: 3rd	SCALE: 1:1 PAGE: 1/1

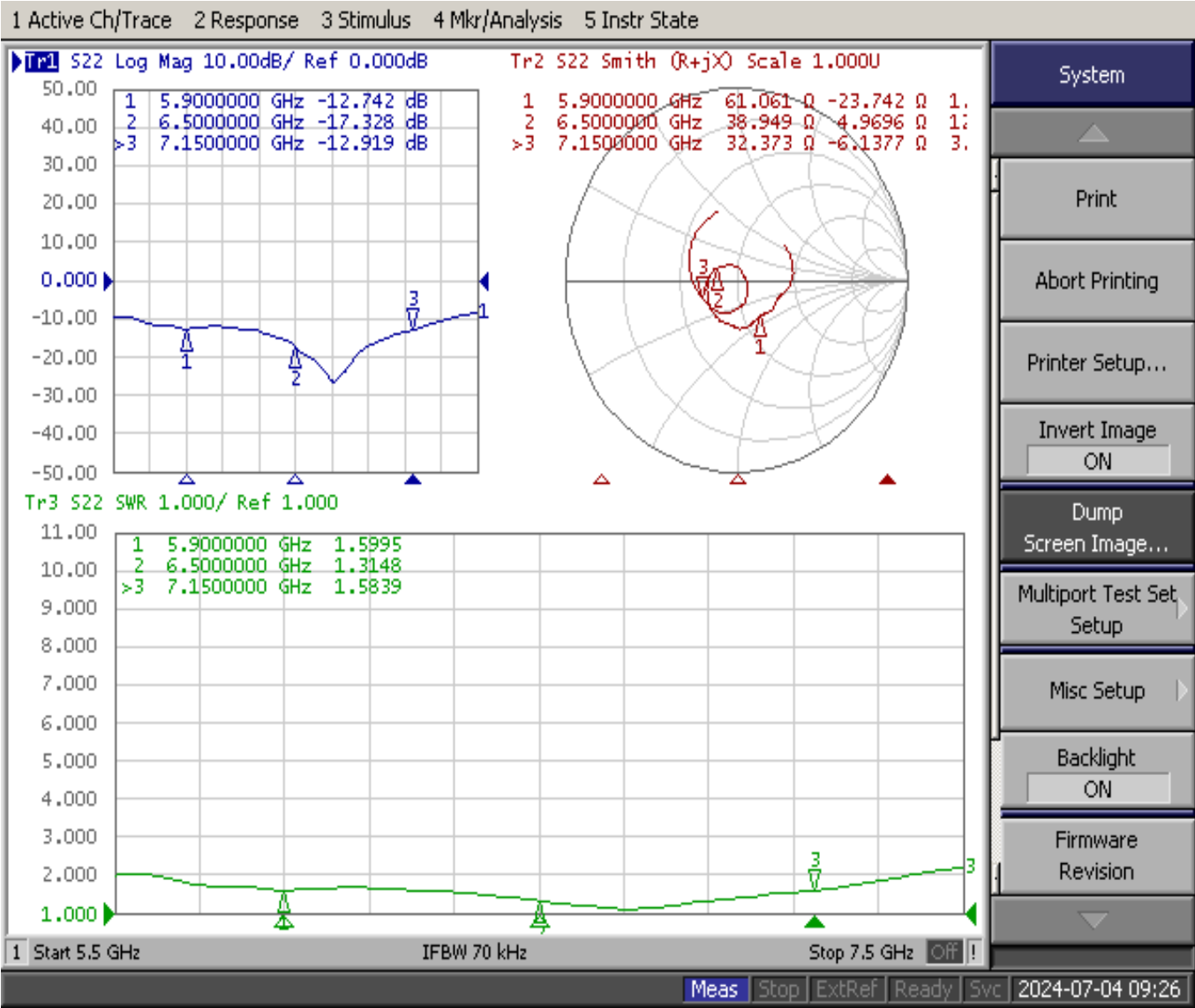
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO HUANGJIE AND SHOULDN'T BE USED WITHOUT WRITTEN PERMISSION.

0 10 20

Electrical Characteristics Test Report

Network analyzer/microwave darkroom testing

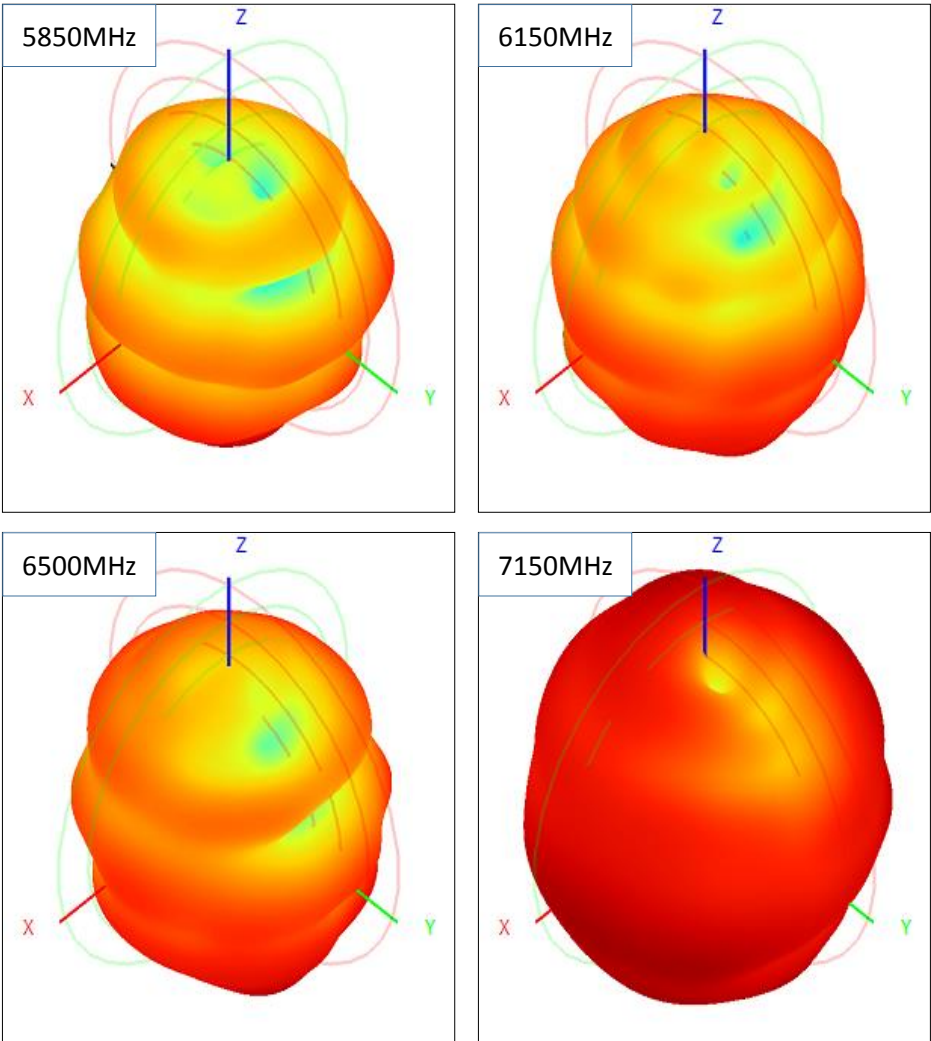
1. Network analyzer test data



2. Microwave darkroom test report

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Frequency (MHz)	5850.0	5900.0	5950.0	6000.0	6050.0	6100.0	6150.0	6200.0	6250.0	6300.0	6350.0	6400.0	6450.0	6500.0
Efficiency (dBi)	-1.85	-1.64	-1.60	-1.78	-1.55	-1.41	-1.60	-1.67	-1.43	-1.38	-1.40	-1.30	-1.27	-1.40
Gain (dBi)	2.24	2.50	2.50	1.18	1.20	1.27	1.79	1.39	1.66	1.77	1.59	1.74	1.57	1.28
Efficiency (%)	65.37	68.53	69.11	66.30	69.96	72.32	69.20	68.00	71.90	72.77	72.50	74.10	74.68	72.38
Directivity (dB)	8.29	8.35	8.32	7.97	7.75	7.67	7.39	7.07	7.09	7.15	6.98	7.04	6.84	6.68
Peak Gain Position (Theta)	154.00	154.00	154.00	154.00	154.00	154.00	154.00	159.00	159.00	160.00	161.00	161.00	162.00	162.00
Peak Gain Position (Phi)	39.00	41.00	45.00	45.00	39.00	43.00	50.00	151.00	150.00	152.00	153.00	153.00	154.00	152.00
Efficiency ThetaPol (%)	52.56	54.41	54.31	51.30	53.42	54.95	52.51	51.34	53.36	53.61	52.81	53.73	54.50	52.78
Efficiency PhiPol (%)	12.81	14.12	14.80	15.00	16.54	17.37	16.69	16.66	18.53	19.17	19.69	20.37	20.18	19.60
Upper Hem. Efficiency (%)	19.19	20.05	20.47	20.37	22.34	23.18	22.04	21.58	23.32	23.33	24.01	24.74	24.90	25.16
Lower Hem. Efficiency (%)	46.18	48.47	48.63	45.93	47.62	49.14	47.16	46.42	48.57	49.44	48.49	49.36	49.78	47.21

Frequency ID	15	16	17	18	19	20	21	22	23	24	25	26	27
Frequency (MHz)	6550.0	6600.0	6650.0	6700.0	6750.0	6800.0	6850.0	6900.0	6950.0	7000.0	7050.0	7100.0	7150.0
Efficiency (dBi)	-1.39	-1.21	-1.35	-1.36	-1.36	-1.56	-1.43	-1.45	-1.59	-1.45	-1.38	-1.78	-1.69
Gain (dBi)	2.09	2.05	2.24	2.37	2.29	1.89	1.93	1.57	1.04	0.84	0.62	0.91	0.77
Efficiency (%)	72.62	75.72	73.35	73.10	73.04	69.75	71.97	71.61	69.29	71.56	72.79	66.31	67.69
Directivity (dB)	6.48	6.26	5.98	5.73	5.66	5.46	5.35	5.02	4.63	4.30	3.99	3.69	3.47
Peak Gain Position (Theta)	162.00	163.00	163.00	133.00	164.00	165.00	133.00	165.00	165.00	165.00	135.00	134.00	56.00
Peak Gain Position (Phi)	155.00	156.00	157.00	66.00	158.00	159.00	66.00	156.00	154.00	153.00	107.00	67.00	204.00
Efficiency ThetaPol (%)	52.49	54.59	52.97	53.14	53.58	51.23	53.09	53.01	51.74	53.58	54.61	49.28	50.43
Efficiency PhiPol (%)	20.13	21.13	20.38	19.97	19.46	18.53	18.88	18.60	17.55	17.98	18.18	17.03	17.25
Upper Hem. Efficiency (%)	26.13	27.71	27.51	29.15	29.78	29.73	31.62	31.72	31.93	33.79	35.64	33.15	34.49
Lower Hem. Efficiency (%)	46.50	48.00	45.83	43.95	43.26	40.02	40.35	39.90	37.37	37.77	37.16	33.15	33.20



Physical photos

