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Data Sheet

Product : Antenna
Date: Nov 11, 2024

Customer Applied model			
Customer	BAODE INTERNATIONAL LIMITED		
Customer Part No.	218118D88TX1600		
Product Description	Antenna		
Supplier	saixun		
Supplier Part No.	SX-005-1318		
Customer	By designed	By Checked	By Approval

Catalogue

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Revision History

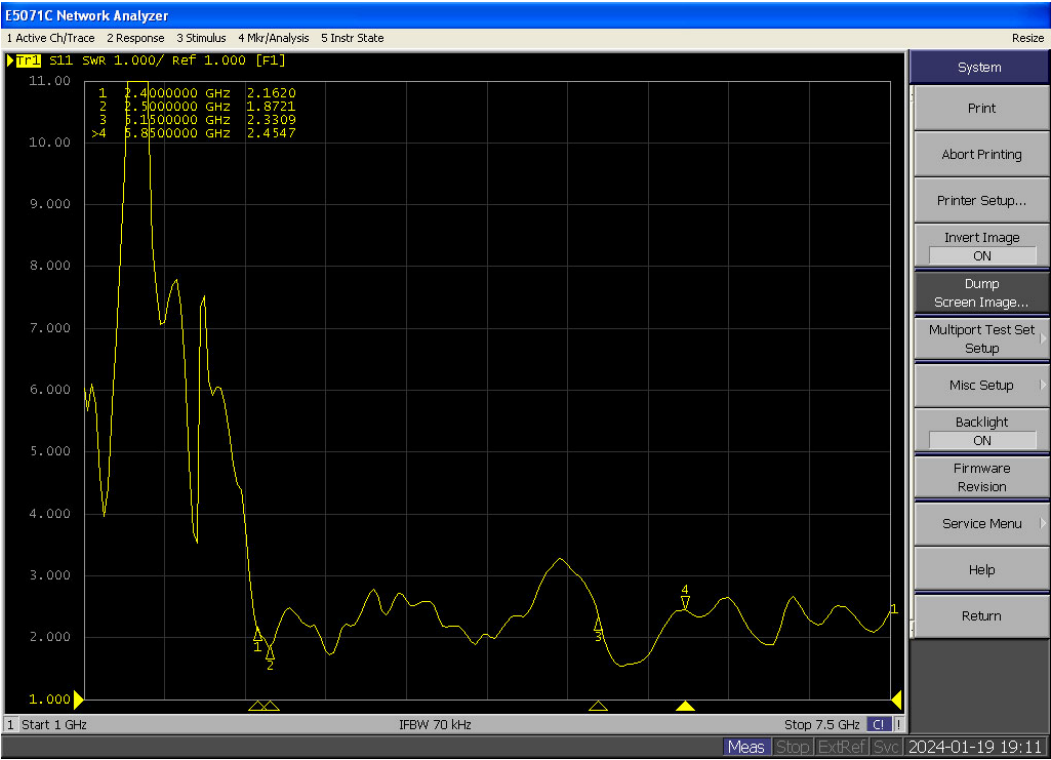
Revision No.	Originator	Description of changes	Date of changes
1	Yanhu Tuo	First document	Nov 11, 2024
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

1 General

Electrical Properties	
Frequency Band	2.4+5G
Test Frequency	2400-2500/5150-5850MHz
VSWR	≤ 2.5
Efficiency	$\leq 73\%$
Gain	≤ 5.0 dBi
Radiation Pattern	Omni-Directional
Polarization	V/H
Antenna Type	Dipole
Environment Properties	
Operational Temperature	-40°C ~ +85°C
Storage temperature	-30°C ~ +60°C

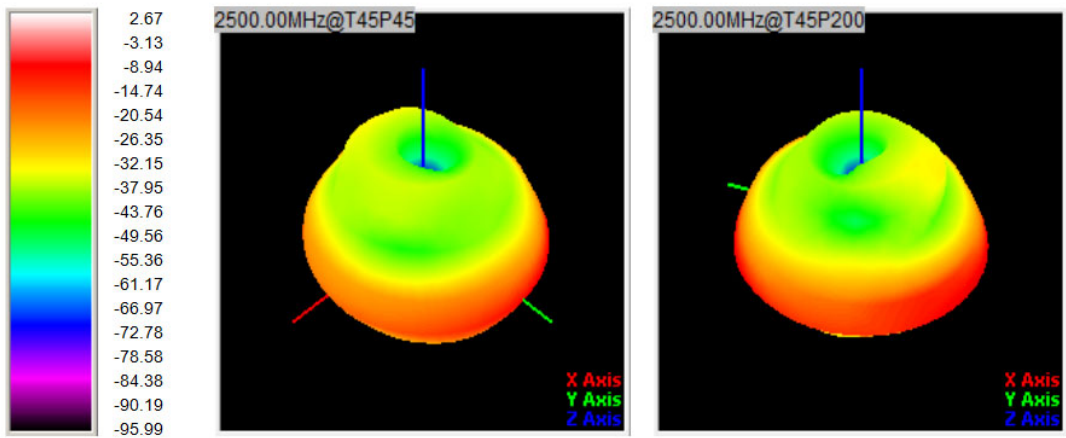
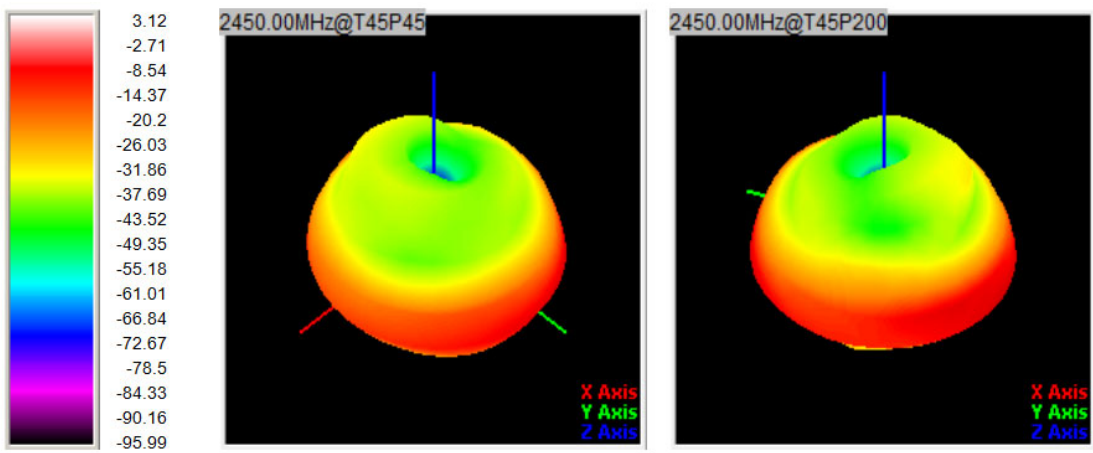
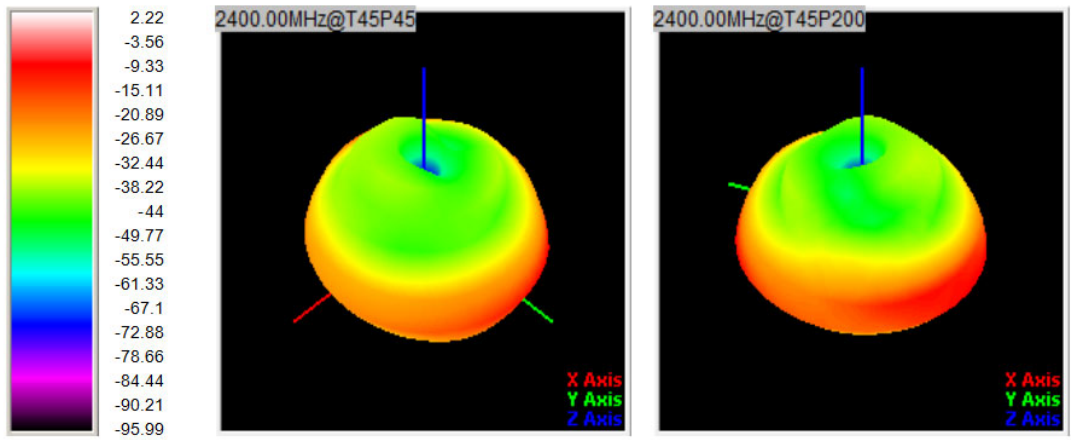
2 Test Data

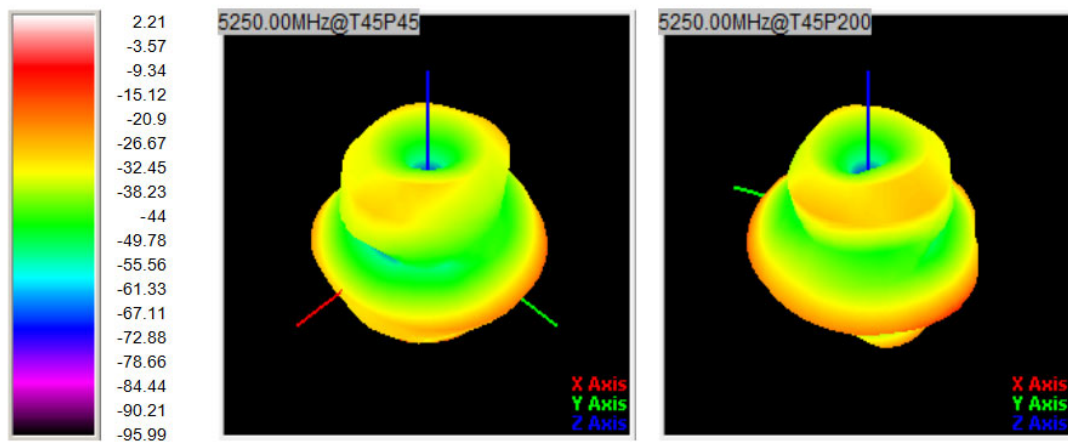
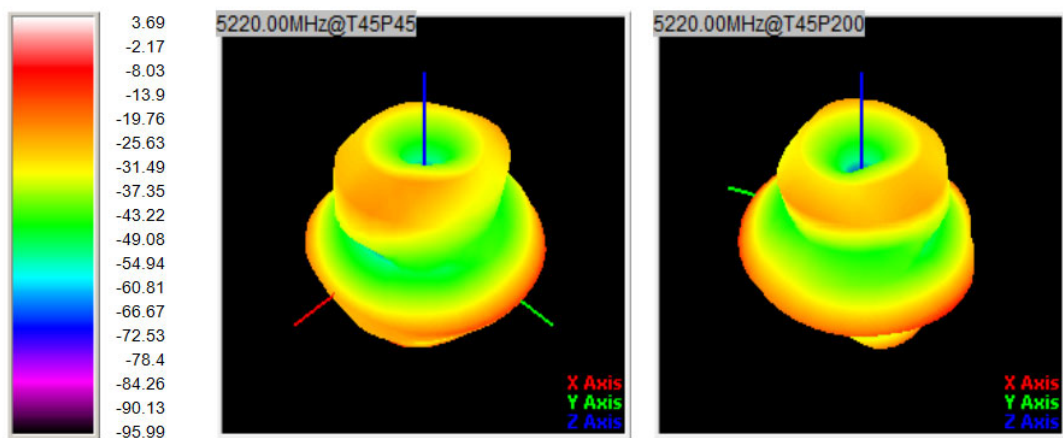
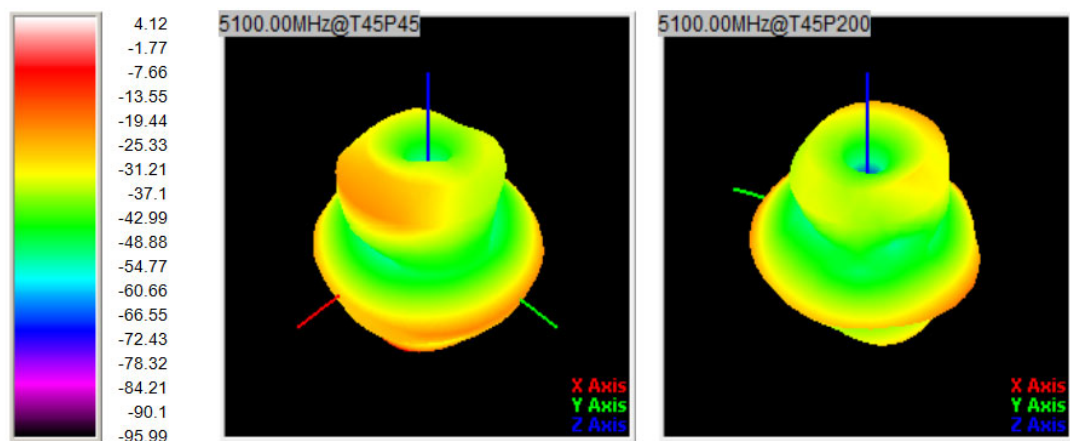
2.1 Network Data (Return loss)

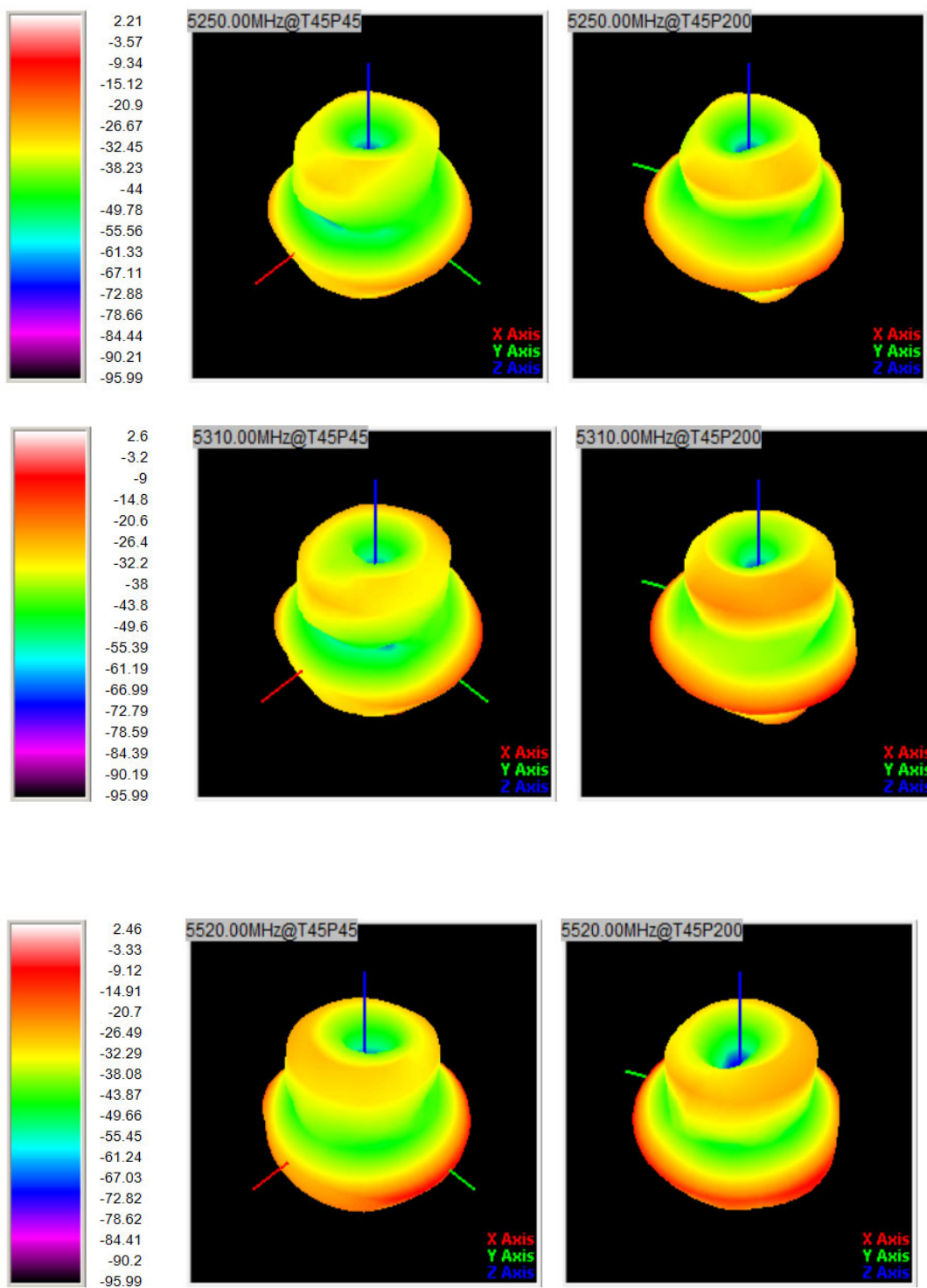


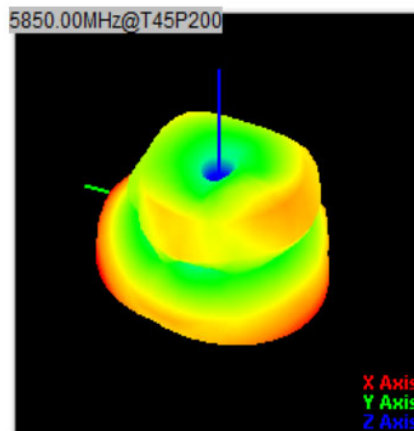
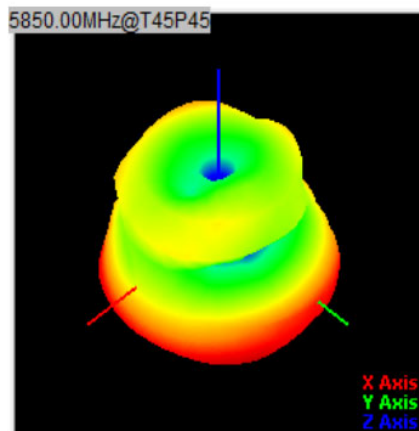
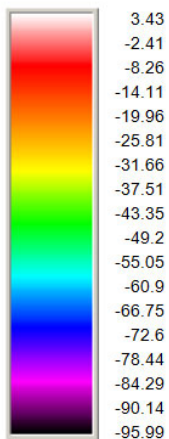
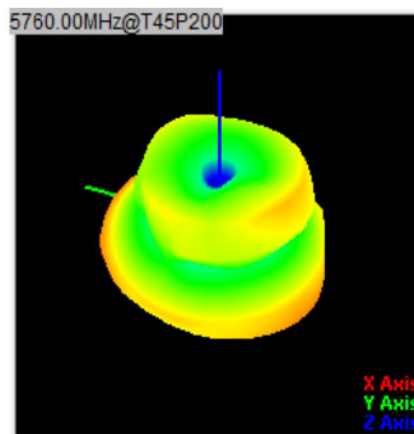
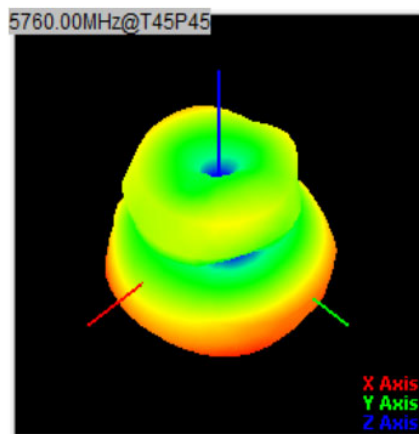
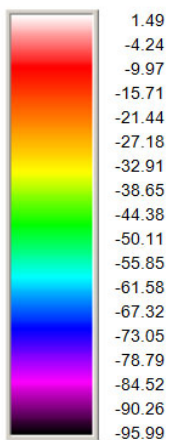
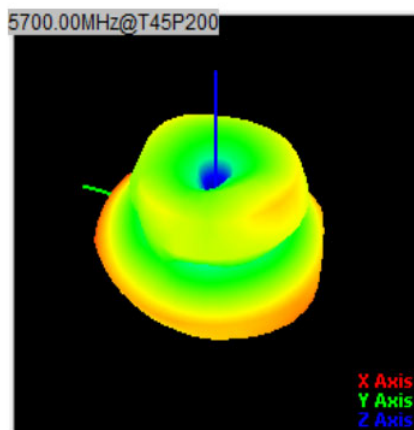
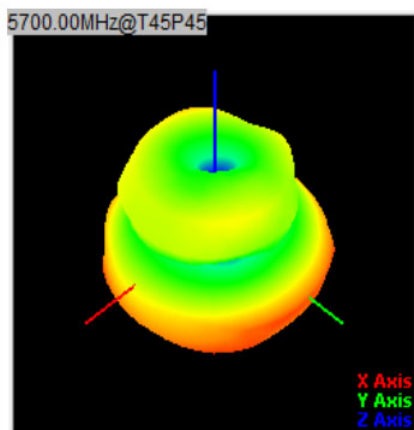
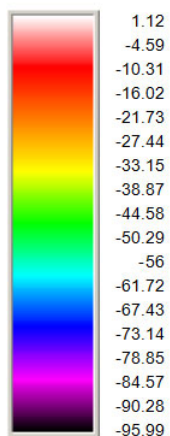
2.2 Radiation pattern

Frequency ID																																						
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5100.0	5130.0	5160.0	5190.0	5220.0	5250.0	5280.0	5310.0	5340.0	5370.0	5400.0	5430.0	5460.0	5490.0	5520.0	5550.0	5580.0	5610.0	5640.0	5670.0	5700.0	5730.0	5760.0	5790.0	5820.0	5850.0	
Point Values																																						
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Tot. Rad. Pwr. (dBm)	2.24	2.27	2.47	2.23	2.11	1.73	1.74	1.78	1.99	2.23	2.11	2.54	2.51	2.66	2.03	1.85	2.58	2.34	2.10	1.90	1.32	1.91	1.13	1.73	1.23	1.66	1.63	1.26	1.88	2.68	3.95	2.70	3.31	3.12	2.89	2.48	1.84	
Peak EIRP (dBm)	2.22	2.71	2.36	2.54	2.63	3.12	3.21	3.29	3.02	2.74	2.67	4.12	4.03	3.51	3.68	3.69	2.21	2.62	2.60	3.03	3.99	3.24	3.94	2.98	3.09	2.46	2.40	2.88	2.18	1.36	-0.15	1.12	0.89	1.49	2.01	2.56	3.43	
Directivity (dB)	4.96	4.97	4.84	4.77	4.73	4.85	4.96	5.07	5.01	4.97	4.78	6.66	6.54	6.16	5.71	5.54	4.79	4.95	4.70	4.53	5.31	5.14	5.07	4.71	4.32	4.12	4.04	4.14	4.06	4.04	3.80	3.82	4.20	4.62	4.89	5.04	5.27	
Efficiency (%)	53.00	59.40	56.60	59.80	61.60	67.10	66.90	66.30	63.20	59.80	61.50	55.70	56.10	54.30	62.60	65.30	55.20	58.30	61.60	64.60	73.80	64.50	77.20	67.20	75.30	68.30	68.70	74.80	64.90	54.00	40.30	53.70	46.70	46.70	51.40	56.60	65.50	
Gain (dB)	2.22	2.71	2.36	2.54	2.63	3.12	3.21	3.29	3.02	2.74	2.67	4.12	4.03	3.51	3.68	3.69	2.21	2.62	2.60	3.03	3.99	3.24	3.94	2.98	3.09	2.46	2.40	2.88	2.18	1.36	-0.15	1.12	0.89	1.49	2.01	2.56	3.43	
HPRP 1/4 (dBm)	-3.54	-3.09	-3.42	-3.21	-3.08	-2.59	-2.54	-2.55	-2.87	-3.19	-3.28	-5.04	-5.07	-5.44	-4.66	-4.33	-5.13	-4.47	-4.46	-4.29	-3.42	-3.94	-3.05	-3.70	-3.22	-3.65	-3.54	-3.07	-3.77	-4.58	-5.89	-4.71	-5.04	-5.01	-4.54	-4.10	-3.60	
HPRP 1/4 (dBm)	-4.02	-3.57	-3.81	-3.71	-3.61	-3.13	-3.09	-3.08	-3.38	-3.70	-3.81	-6.32	-6.52	-6.82	-6.02	-5.70	-6.43	-5.81	-5.79	-5.58	-4.69	-5.19	-4.18	-4.82	-4.31	-4.70	-4.60	-4.12	-4.81	-5.65	-6.94	-5.81	-6.15	-6.18	-5.67	-5.25	-4.71	
HPRP 1/4 (dBm)	-4.26	-3.80	-4.13	-3.94	-3.85	-3.38	-3.33	-3.32	-3.61	-3.93	-4.03	-7.20	-7.14	-7.38	-6.57	-6.21	-6.91	-6.31	-6.29	-6.01	-5.12	-5.58	-4.54	-5.17	-4.64	-5.04	-4.97	-4.51	-5.25	-6.12	-7.45	-6.34	-6.69	-6.75	-6.27	-5.80	-5.34	
Upper Hem. PRP (dBm)	-5.63	-5.18	-5.40	-5.16	-5.02	-4.52	-4.62	-4.67	-4.92	-5.20	-5.11	-7.43	-7.23	-7.30	-6.55	-6.12	-6.80	-6.53	-6.14	-5.95	-5.52	-5.93	-5.42	-5.92	-5.43	-5.92	-5.87	-5.41	-6.32	-7.16	-8.62	-7.58	-8.19	-8.15	-8.04	-7.53	-7.22	
Lower Hem. PRP (dBm)	-5.87	-5.38	-5.57	-5.32	-5.22	-4.87	-4.89	-4.91	-5.08	-5.28	-5.14	-7.25	-7.05	-7.14	-6.39	-6.00	-6.64	-6.43	-6.04	-5.87	-5.40	-5.15	-4.81	-5.31	-4.79	-5.39	-5.37	-4.81	-5.59	-6.76	-5.41	-5.01	-4.76	-4.47	-4.10	-3.32		
Upper Hem. PRP (%)	27.57	30.37	28.82	30.45	31.51	34.53	34.48	34.08	32.22	30.17	30.65	18.08	18.93	18.61	22.14	24.42	20.89	22.24	24.35	25.43	28.65	25.51	28.73	25.57	28.65	25.61	25.88	28.75	23.31	19.21	13.75	17.45	15.16	15.30	15.72	17.65	18.97	
Lower Hem. PRP (%)	25.87	28.88	27.74	29.34	30.06	32.55	32.44	32.26	31.01	29.63	30.62	37.60	37.17	35.64	40.50	40.86	34.35	36.08	37.29	39.18	45.70	38.95	48.42	41.63	46.66	42.67	42.78	46.06	41.60	34.73	26.54	36.23	31.54	33.42	35.71	38.91	46.51	









3 Mechanical Drawings

