

## 承认书

客户名称： \_\_\_\_\_

产品料号： AN2400-P92D01RS \_\_\_\_\_

产品名称： 2.4GHz 天线 3DB \_\_\_\_\_

供应商确认		
批准	制作人	日期
向华国	杨兴	2018.10.15

客户签署		
品保	工程	采购

# Index

1、 Cover Page.....	1
2、 Index.....	2
3、 Revision History.....	3
4、 Specification.....	4
5、 Drawing.....	5

### Revision History

Revision	Date	Change Notification	Description
1.0	2018.10.15		

## Specification



### A. Electrical Characteristics

Frequency	2400 ~ 2500 MHz
S.W.R.	$\leq 2.0$
Efficiency(%)	$\approx 50\%$
Polarization	Linear
Impedance	50 Ohm

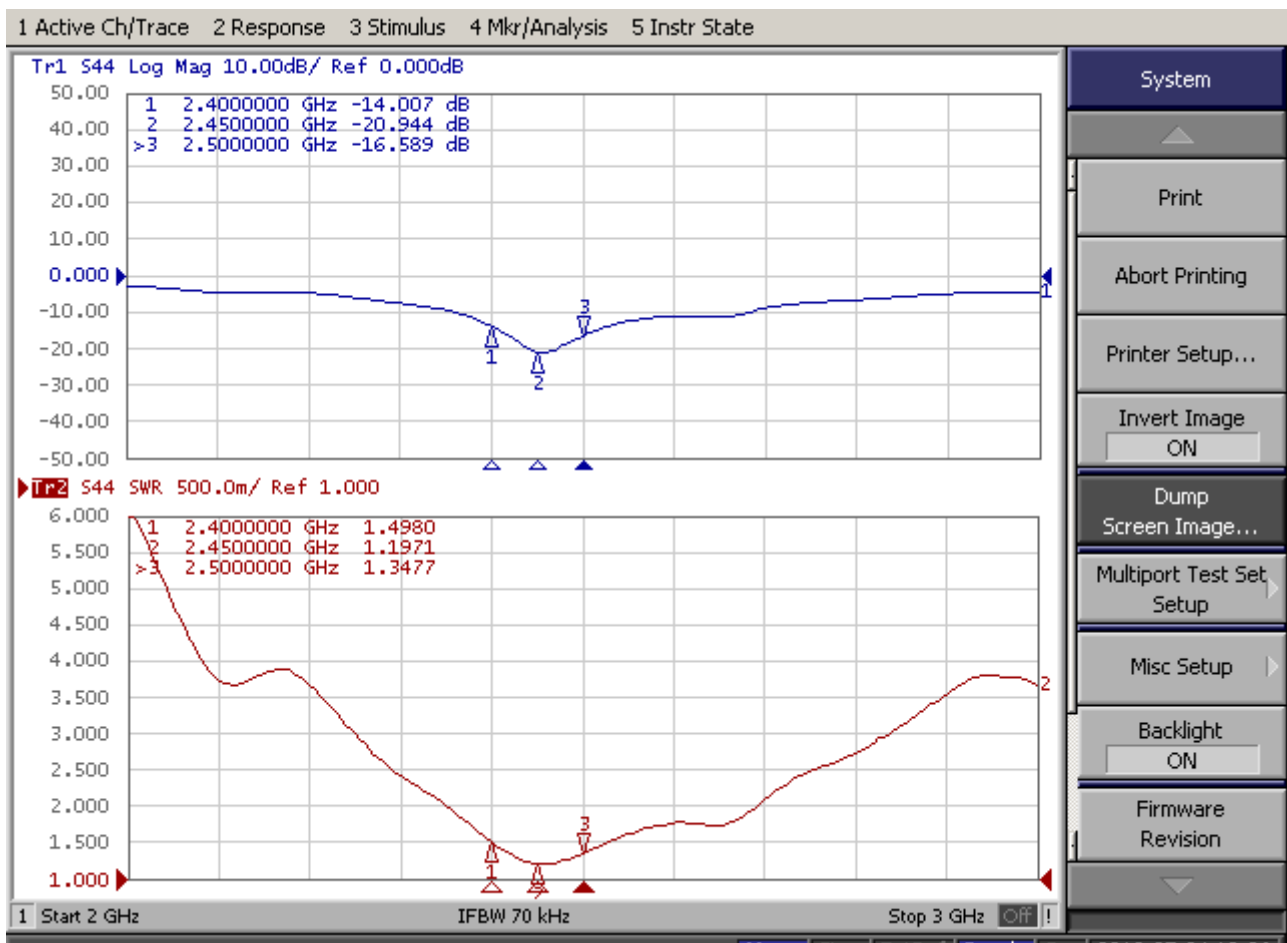
### B. Material & Mechanical Characteristics

Material of Radiator	Cu
Cable Type	RG178
Connector Type	SMA
Connector Pull Test	$\geq 2\text{Kgf}$

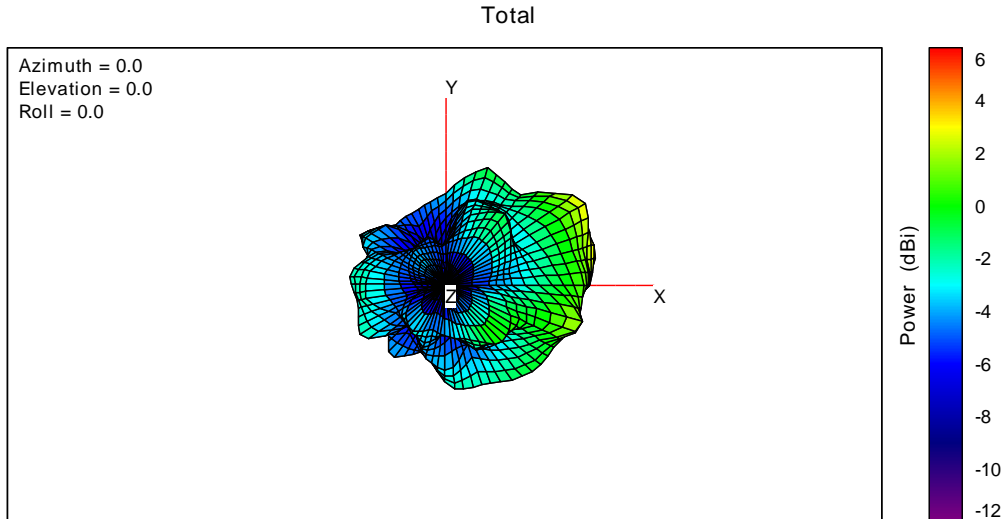
### C. Environmental

Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

### Antenna - S Parameter Test Data



Antenna - Radiation Pattern Test Data



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Frequency(MHz)	2400	2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460	2465	2470	2475	2480	2485	2490	2497
Efficiency(dB)	-2.57	-2.56	-2.47	-2.35	-2.32	-2.23	-2.17	-2.17	-2.10	-2.16	-2.32	-2.40	-2.35	-2.50	-2.68	-2.86	-3.15	-3.23	-3.26	-3.44
Efficiency(%)	55.38	55.42	56.64	58.16	58.65	59.90	60.65	60.74	61.73	60.79	58.65	57.49	58.23	56.27	53.96	51.73	48.42	47.55	47.24	45.28
TRG(dB)	-2.57	-2.56	-2.47	-2.35	-2.32	-2.23	-2.17	-2.17	-2.10	-2.16	-2.32	-2.40	-2.35	-2.50	-2.68	-2.86	-3.15	-3.23	-3.26	-3.44
TRG <sub>Theta</sub> (dB)	-6.06	-6.03	-5.84	-5.78	-5.74	-5.71	-5.51	-5.50	-5.44	-5.50	-5.65	-5.73	-5.75	-5.92	-6.11	-6.35	-6.71	-6.79	-6.92	-7.13
TRG <sub>Phi</sub> (dB)	-5.14	-5.16	-5.14	-4.99	-4.95	-4.81	-4.88	-4.88	-4.79	-4.87	-5.03	-5.12	-5.00	-5.13	-5.31	-5.45	-5.67	-5.75	-5.70	-5.86
UHRG(dB)	-6.41	-6.45	-6.40	-6.31	-6.29	-6.19	-6.20	-6.23	-6.15	-6.25	-6.41	-6.51	-6.44	-6.65	-6.76	-6.95	-7.22	-7.23	-7.28	-7.45
UHRG/TRG(%)	41.31	40.90	40.45	40.18	40.04	40.12	39.58	39.18	39.30	38.97	38.97	38.85	39.02	38.44	39.05	39.03	39.15	39.83	39.63	39.75
H-Plane	-8.45	-8.45	-8.30	-8.10	-8.14	-8.06	-7.92	-8.02	-8.05	-8.08	-8.37	-8.39	-8.51	-8.70	-8.93	-8.97	-9.27	-9.28	-9.39	-9.13
E1-Plane, AVG(dB)	-5.59	-5.69	-5.56	-5.50	-5.51	-5.47	-5.31	-5.37	-5.39	-5.43	-5.53	-5.63	-5.79	-6.02	-6.21	-6.53	-6.92	-7.07	-7.18	-7.54
E2-Plane, AVG(dB)	-4.44	-4.45	-4.14	-4.10	-4.08	-4.01	-3.75	-3.64	-3.52	-3.64	-3.67	-3.72	-3.60	-3.69	-3.75	-3.91	-4.16	-4.19	-4.21	-4.29
Peak Gain(dB)	2.89	2.93	3.01	2.88	2.99	3.08	3.17	3.18	3.26	3.18	2.91	2.86	2.95	2.98	2.82	2.87	2.42	2.45	2.51	2.33
Directivity(dB)	5.46	5.50	5.48	5.23	5.31	5.30	5.34	5.35	5.36	5.34	5.23	5.26	5.29	5.48	5.50	5.74	5.57	5.67	5.76	5.77
Minimum Gain(dB)	-8.35	-8.73	-8.78	-8.92	-9.16	-9.55	-9.01	-9.71	-9.10	-9.09	-8.90	-8.57	-8.24	-8.31	-7.84	-8.70	-7.77	-7.67	-7.72	-8.24
Average Efficiency	-2.55dB, 55.64%																			