



SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER : MeiG Smart Technology Co., Ltd
CS P/N : MC942 ANT WIFI1
PART NAME : 3MC9420702
DEVE NO. : AUK02577B-Ant1
PART NO :
DATE : Oct. 28, 2024

Customer confirmation:			
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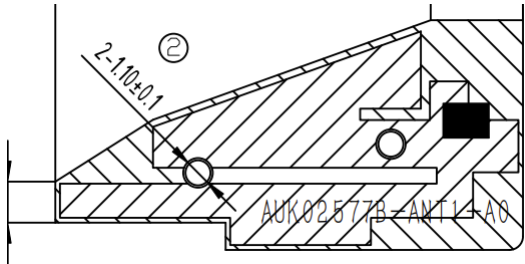
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The Basic Parameters

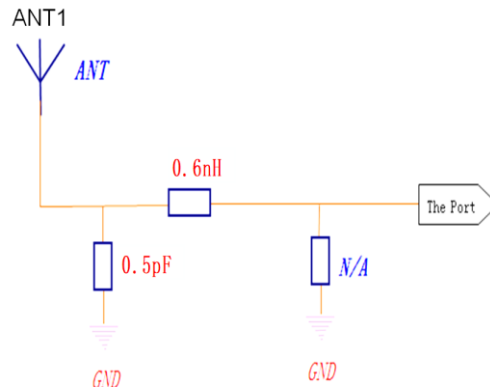
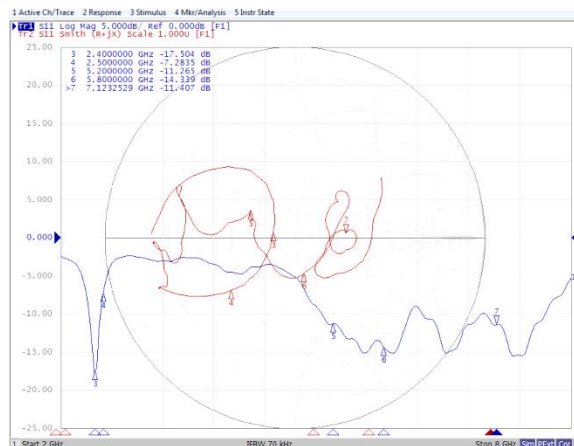
Item	Specifications
Frequency	2.4G 5G 6E
V. S. W. R	≤ 1.5
Gain	≤ 2
Polarization	Linear polarization
Impedance	50Ω
Material	FPC
Joint type	N/A
Operation temperature	-40°C to 85°C
Storage temperature	-40°C to 85°C
Humidity	Non-condensing 20°C 95% RH
illustration	 <p>Technical drawing of the antenna assembly. It shows a cross-section of the antenna mounted on a PCB. A dimension line indicates a length of 2-1.10±0.1. A circled number 2 is also present. The drawing is labeled with the part number AUK02577B-ANT14-A0.</p>

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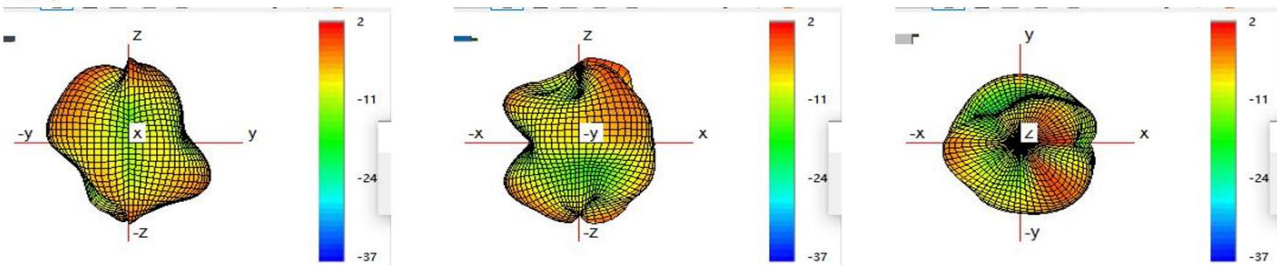
RF Performance Test Report

Return Loss & impedance match

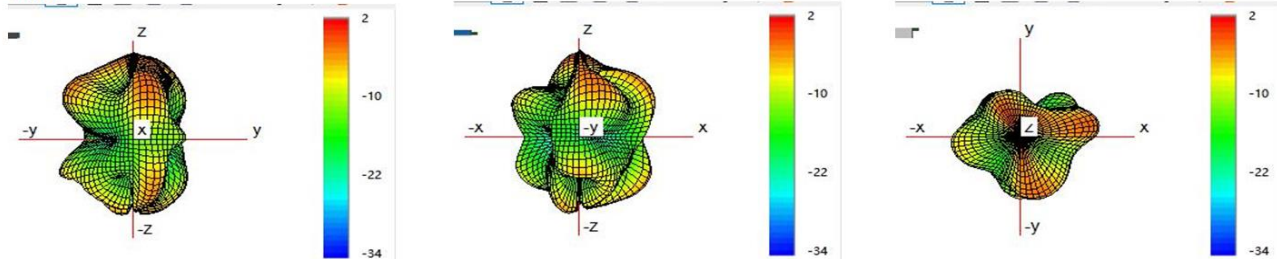


Antenna 3D Radiation Pattern

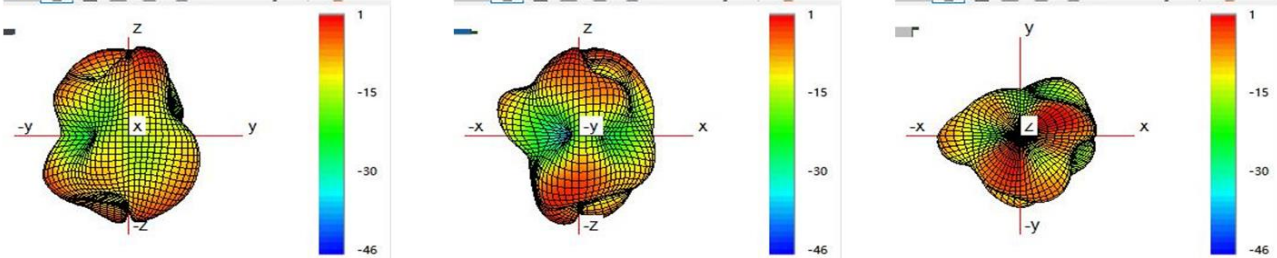
ANT1
2.4G



5.1G



5.8G



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Efficiency

测试频率	Efficiency-%	Gain(dBi)	测试频率	Efficiency-%	Gain(dBi)	测试频率	Efficiency-%	Gain(dBi)
2400	54.3	1.48	5150	47.36	1.51	5925	44.69	0.16
2410	54.1	1.37	5200	47.6	1.43	5975	46.15	0.03
2420	53.89	1.26	5250	49.43	1.56	6025	44.3	-0.21
2430	53.53	1.12	5300	47.29	1.26	6075	48.22	0.19
2440	54.58	1.1	5350	49.16	1.55	6125	46.04	0.11
2450	56.39	1.14	5400	48.15	1.69	6175	49.82	0.44
2460	57.83	1.24	5450	48.43	1.71	6225	44.07	0.31
2470	58.02	1.26	5500	47.49	2.09	6275	43.68	-0.02
2480	59.4	1.37	5550	45.97	1.76	6325	43.93	0.3
2490	59.95	1.41	5600	47.06	1.91	6375	42.53	0.59
2500	59.45	1.41	5650	42.97	1.43	6425	45.12	0.98
			5700	43.88	1.28	6475	41.76	0.84
			5750	41.83	0.73	6525	42.23	1.03
			5800	42.87	0.56	6575	42.76	1.49
			5850	45.21	0.62	6625	43.43	1.74
						6675	43.65	1.39
						6725	43.4	1.04
						6775	43.35	1.11
						6825	41.19	1.01
						6875	38.13	0.56
						6925	36.83	0.6
						6975	35.04	0.16
						7025	33.23	-0.03
						7075	31.75	-0.26
						7125	31.74	-0.06

OTA Report

ANT1

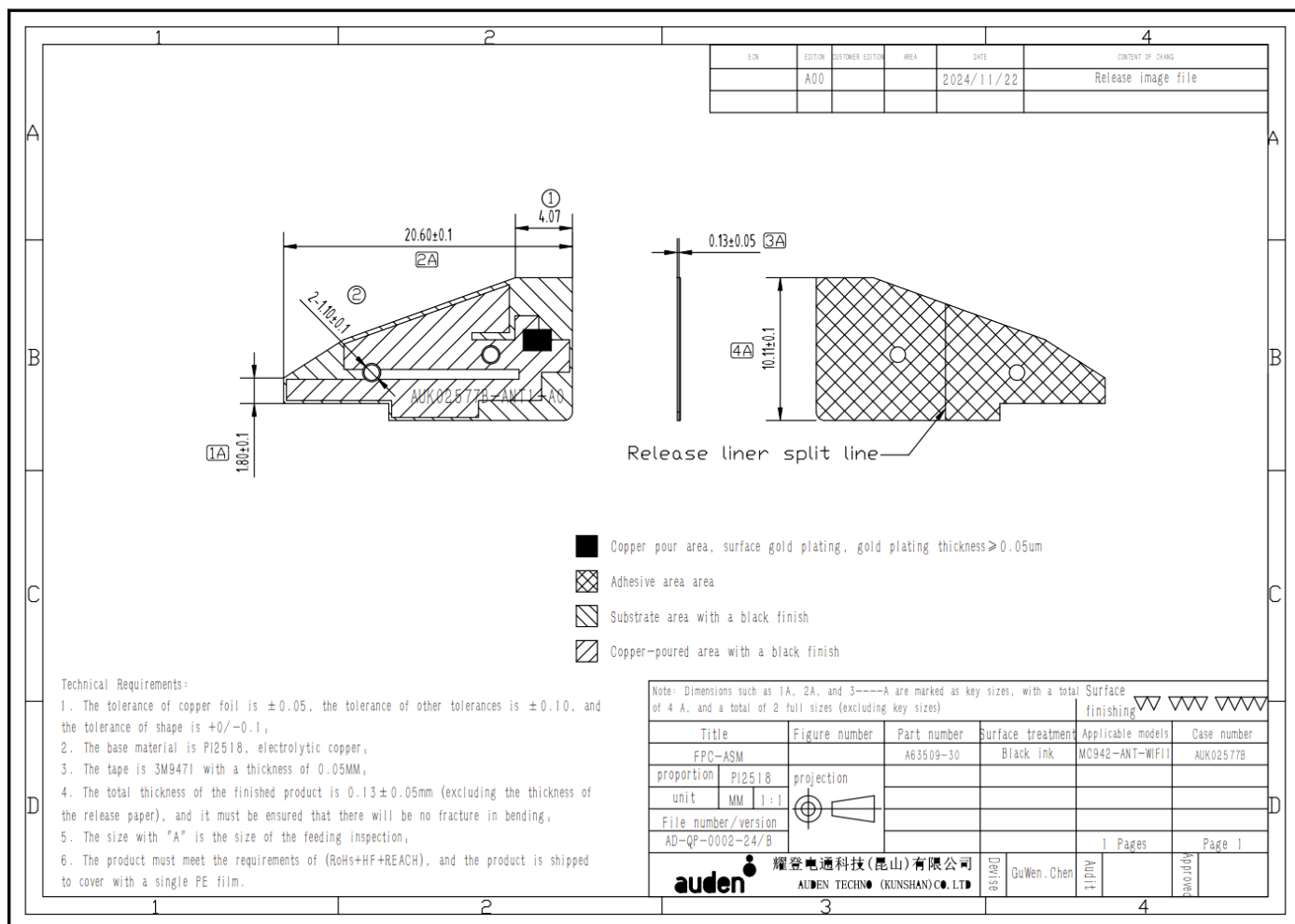
Band	Data Rate Mbps	Test Item	Channel	锁ant1	
				TRP (dBm)	AVG (dBm)
2.4G 11b	11M	TRP (3D)	1	12.63	12.7
			7	13.82	
			11	11.76	
2.4G 11g	6M	TRP (3D)	1	13.42	13.5
			7	14.19	
			11	12.8	
5G 11a	6M	TRP (3D)	36	9.74	9.4
			100	8.01	
			149	10.35	

Band	Data Rate Mbps	Test Item	Channel	锁ant1	
				TIS (dBm)	AVG (dBm)
2.4G 11b	11M	TIS (3D)	1	-85.37	-85.6
			7	-86.17	
			11	-85.3	
2.4G 11g	54M	TIS (3D)	1	-72.15	-71.7
			7	-71.92	
			11	-70.99	
5G 11a	54M	TIS (3D)	36	-69.43	-68.2
			100	-68.27	
			149	-66.99	

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Product Drawing



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