

AC204 Wi-Fi Antenna

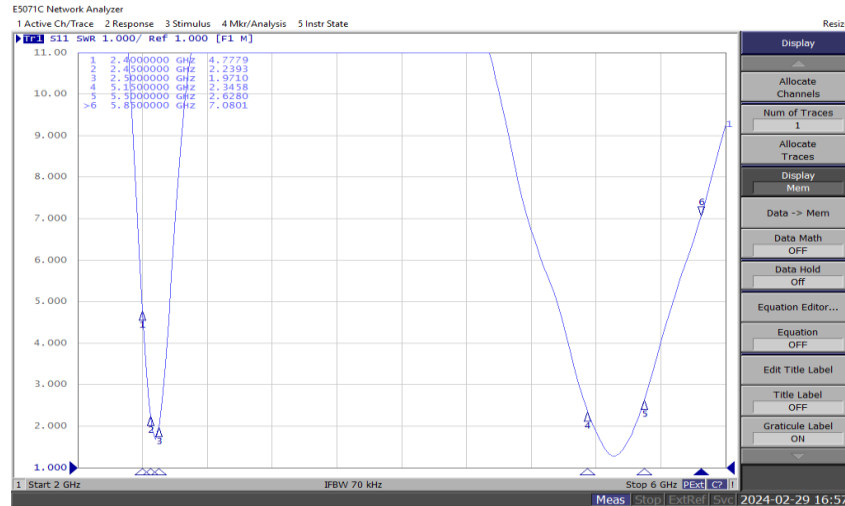
1.1 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>AC204 Wi-Fi ANT</u>		
2	Brand	<u>DJI</u>		
3	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.150~5.875GHz</u>		
4	Connector Type	Shrapnel		
5	Impedance	50ohm		
6	Gain	ANT0 -0.7dBi@2.4~2.4835GHz 1.0dBi@5.15~5.25GHz -3dBi@5.725~5.85GHz ANT1 -0.2dBi@2.4~2.4835GHz 0dBi@5.15~5.25GHz 0.9dBi@5.725~5.85GHz		
7	Efficiency	$\geq 20\%$		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			



1.2 Gain & Efficiency

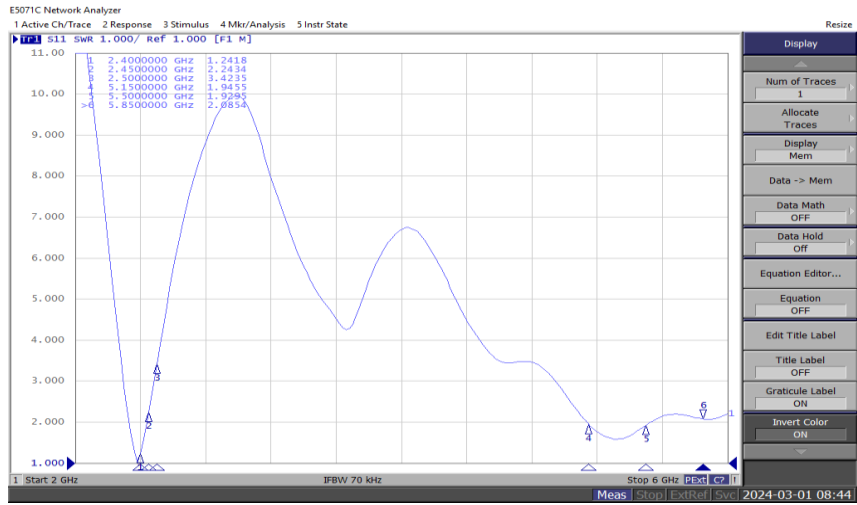
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Frequency	Efficiency	Efficiency . dB	Gain . dB
2300000000	3%	-14.56181738	-8.784431102
2320000000	5%	-13.30304246	-7.771005136
2340000000	6%	-11.91200909	-6.272334893
2360000000	8%	-11.21990914	-5.646337165
2380000000	11%	-9.612156051	-4.211593195
2400000000	14%	-8.411567943	-3.078251325
2420000000	18%	-7.415866372	-2.029432557
2440000000	22%	-6.561888992	-1.199364301
2460000000	25%	-5.959219016	-0.655838453
2480000000	25%	-5.950196643	-0.721282548
2500000000	26%	-5.907018708	-0.688531884
2520000000	21%	-6.701744417	-1.725812431
2540000000	18%	-7.382269778	-2.320835971
2560000000	15%	-8.105378355	-3.301004782
2580000000	13%	-8.723952102	-3.980988005
2600000000	11%	-9.506065896	-4.652565674
5000000000	19%	-7.247679637	-1.597649229
5050000000	23%	-6.343121652	-0.216764269
5100000000	30%	-5.301539715	0.857011368
5150000000	35%	-4.587143545	0.944399171
5200000000	38%	-4.252631766	0.997018664
5250000000	39%	-4.041987179	1.074360514
5300000000	42%	-3.755558653	1.038658972
5350000000	44%	-3.58295791	1.202341344
5400000000	41%	-3.838800959	1.258389205
5450000000	39%	-4.042508093	1.289067645
5500000000	34%	-4.717453329	0.270689144
5550000000	28%	-5.528993374	-0.797495411
5600000000	24%	-6.23966606	-1.359762963
5650000000	20%	-6.976201645	-2.115655292
5700000000	16%	-8.042925949	-3.257873969
5750000000	14%	-8.404839832	-3.468528866
5800000000	13%	-8.752098346	-3.837146721
5850000000	11%	-9.436199997	-4.472363469
5900000000	10%	-10.18088888	-4.368022121
5950000000	10%	-9.965858097	-3.562598072
6000000000	10%	-10.04225162	-3.818060232



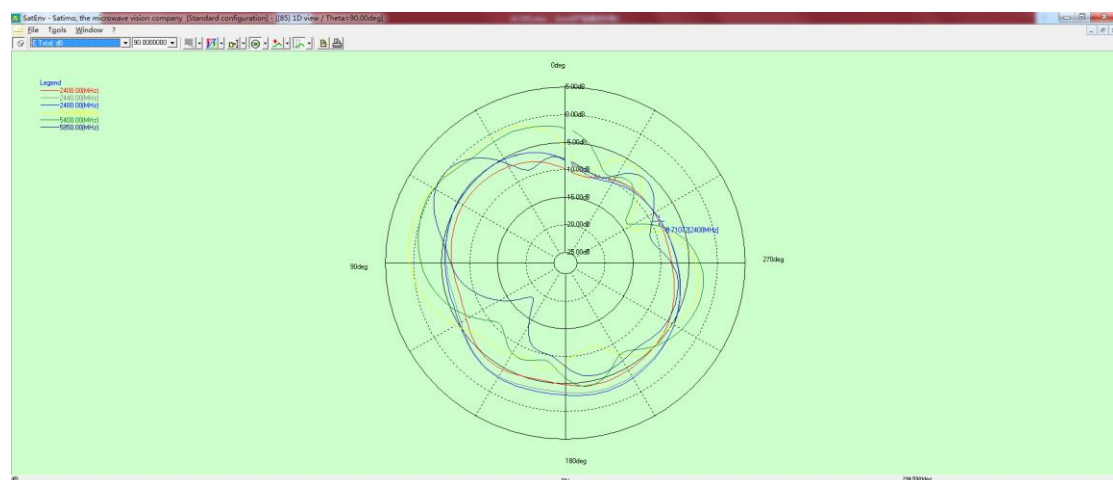
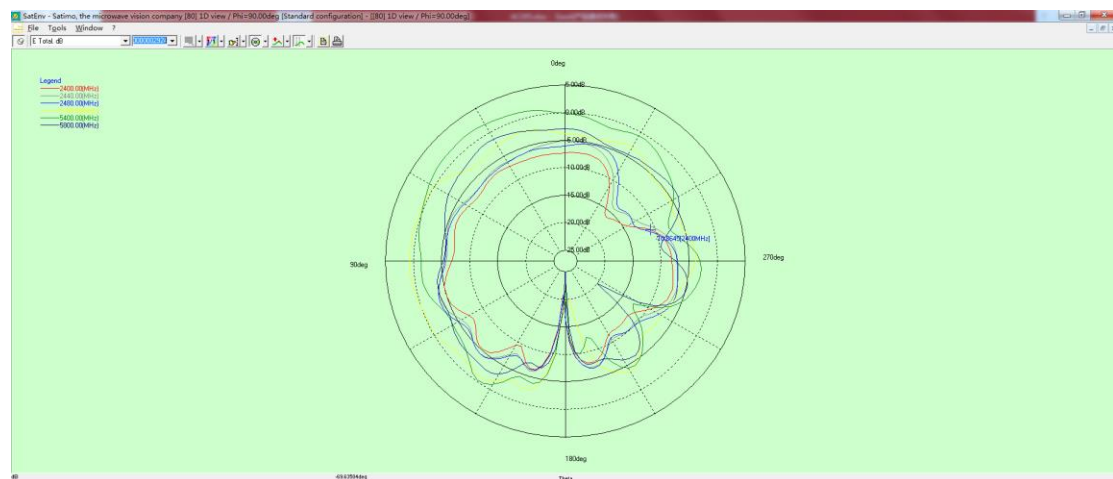
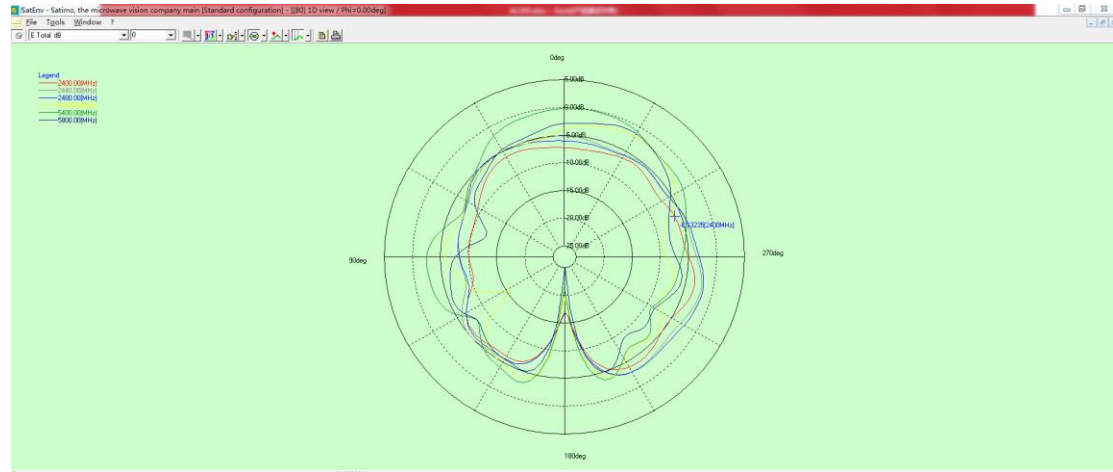
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T	U	V	W	X
定位柱消除	Frequency	Efficiency	Efficiency.dB	Gain.dB
	2300000000	17%	-7.639756949	-2.448041326
	2320000000	20%	-7.094430556	-2.149553195
	2340000000	26%	-5.814706769	-0.788868222
	2360000000	31%	-5.110940671	0.173959741
	2380000000	31%	-5.091431713	-0.341652788
	2400000000	32%	-4.900377838	-0.19989557
	2420000000	32%	-4.910748473	-0.477729354
	2440000000	31%	-5.130747626	-0.266212681
	2460000000	29%	-5.380024577	-0.778066828
	2480000000	24%	-6.148039494	-1.336987404
	2500000000	23%	-6.458959102	-1.442091383
	2520000000	20%	-6.977362421	-1.572134909
	2540000000	17%	-7.752342322	-2.570997141
	2560000000	16%	-7.918260586	-2.813427144
	2580000000	15%	-8.108504169	-3.262201905
	2600000000	13%	-8.765430896	-3.604923749
	5000000000	28%	-5.578465804	-1.453495147
	5050000000	31%	-5.093065384	-0.770932809
	5100000000	34%	-4.720723973	-0.854472099
	5150000000	37%	-4.352408715	-0.560546605
	5200000000	39%	-4.059226493	-0.242677967
	5250000000	36%	-4.413464166	-0.108803271
	5300000000	37%	-4.354085799	0.102155428
	5350000000	39%	-4.094630832	0.446124202
	5400000000	39%	-4.084126653	0.768558047
	5450000000	40%	-3.958805529	0.687997428
	5500000000	37%	-4.302479554	0.382994802
	5550000000	36%	-4.475592025	0.289334813
	5600000000	35%	-4.568727147	0.221760617
	5650000000	36%	-4.462023258	0.533271922
	5700000000	35%	-4.587829149	0.269504362
	5750000000	35%	-4.524645356	0.45655392
	5800000000	36%	-4.444768391	0.727642852
	5850000000	39%	-4.139943272	0.909707903
	5900000000	40%	-4.003730557	0.986447979
	5950000000	37%	-4.348996649	0.648030348
	6000000000	34%	-4.630227317	0.32691924

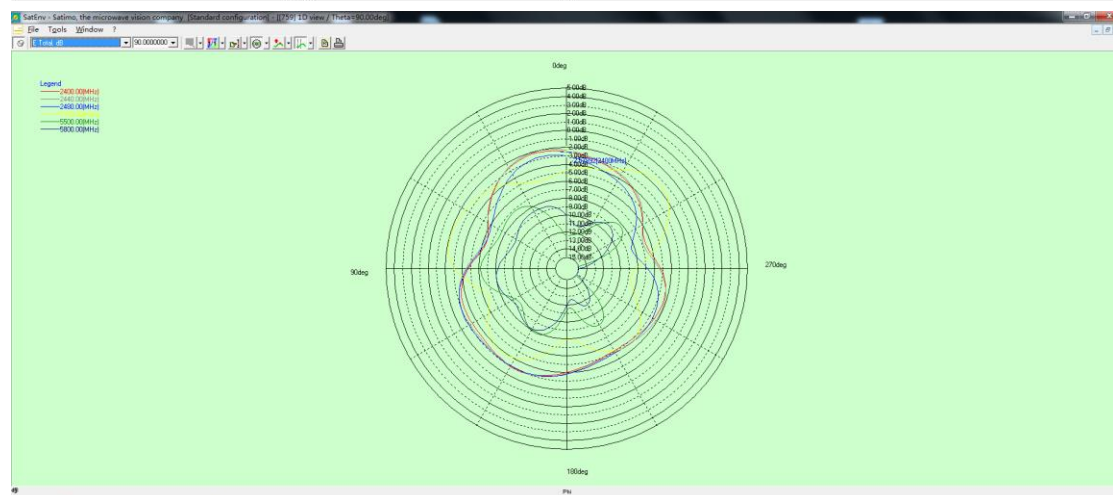
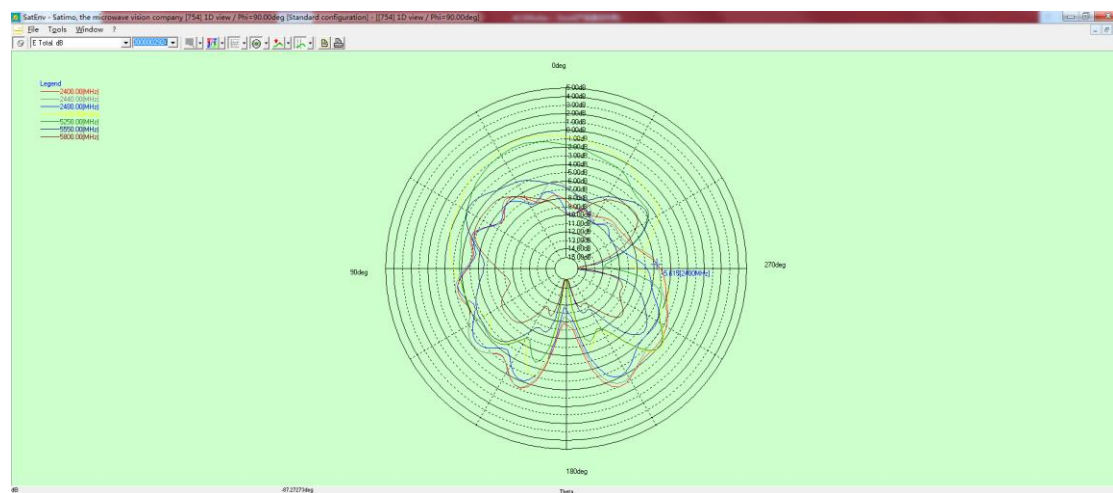
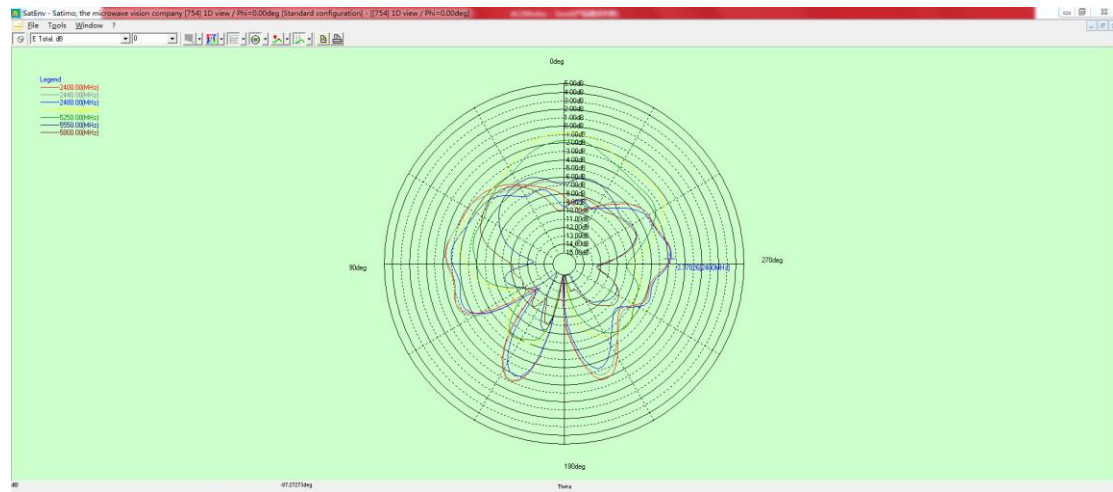
1.3 radiation pattern

ANT0



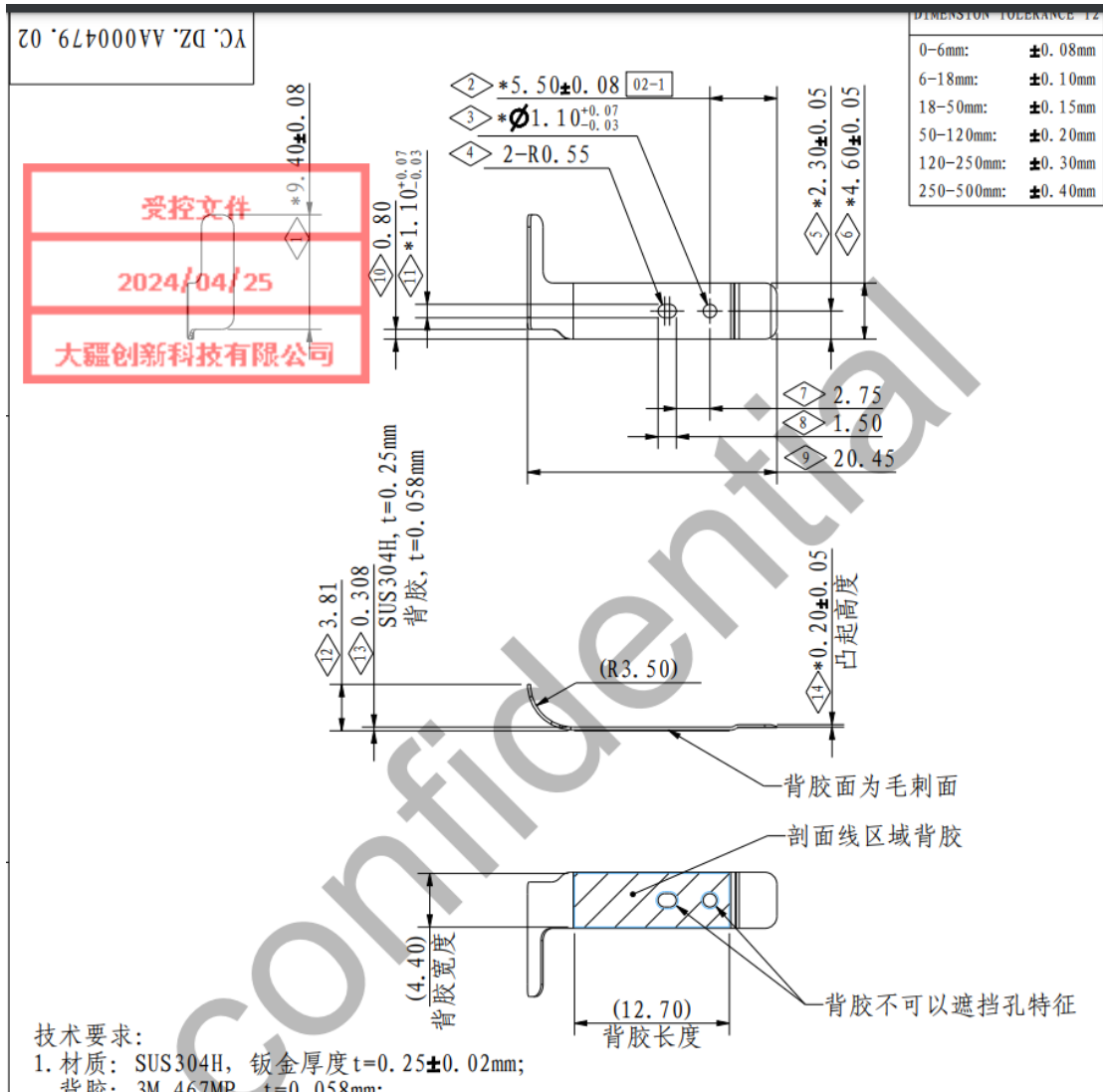


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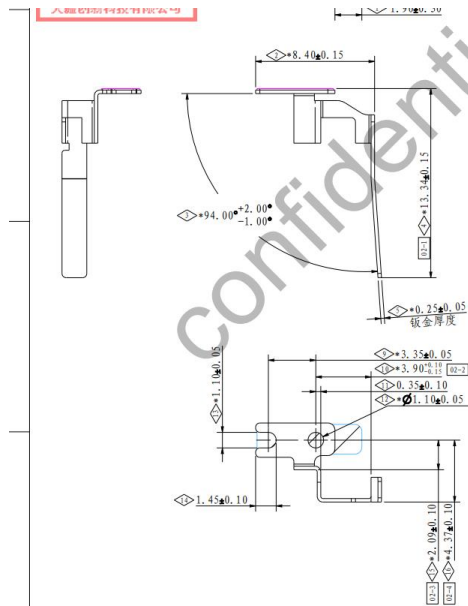


1.4 Structure drawing

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技术要求

1. 材质: SUS304H, T=0.25mm, 贴背胶来料, 背胶型号 3M 55261P;
2. 表面处理: 镀镍;
3. 冲切面毛刺小于 0.05mm; 部品表面光洁, 不得有油污等脏污;
4. 未标尺寸、角度参考 3D 图, 未标线性尺寸、未标角度尺寸的公差参考 GB/T1804-2000-m;
5. 线性尺寸未注公差参考图框公差表, 角度尺寸未注公差参考 GB/T1804-2000-m;
6. 标注序号尺寸做 FAI 检测, 标注 "**" 号尺寸做 SPC 管控, 括号内尺寸为参考尺寸, 不做管控;
7. 满足大疆创新的技术要求和产品检验规范;
8. 满足《CM-QP-PUR-0002 大疆禁限用物质管控要求》, 测试要求:
 - ① 非一级外观面物料——金属测试项: RoHS; 非金属物料测试: RoHS+短链氯化石蜡;
 - ② 一级外观面物料——金属/镀层(含镍)测试项: RoHS+镍释放;
 - 非金属物料测试: RoHS+短链氯化石蜡+多环芳烃;
 - ③ 皮革/纺织品物料——测试项: RoHS+偶氮+短链氯化石蜡+多环芳烃;

DIMENSION TOLERANCE TABLE	DESIGNED	00059923	2024-03-28	MATERIAL	SUS304H	YC.DZ.AA000480.02
0-6mm	DRAWN	00059923	2024-03-28	SUPPLIER	无指定	
6-18mm	CHECKED			COLOR	本色	MASS SCALE UNIT SIZE
18-50mm	APPROVED			FINISH	镀镍	0.1g 5:1 mm A3
50-120mm						
120-250mm						
250-500mm						