
香港鑫恒陽股份有限公司
HongKong Xinghengyang Stock Co.,Ltd.
深圳市鑫恒阳科技有限公司
ShenZhen XinHengYang Technology co.,Ltd
鑫恒阳
XINHENGYANG
品牌强国
自主品牌优选示范工程

鑫恒阳
XINHENGYANG

Xinhengyang antenna test data report

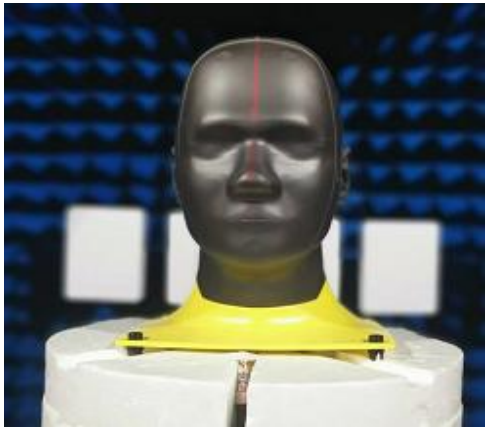
CUSTOMER NAME:	XINZHENGYU
PRODUCT NAME:	TR30
XIN HENG YANG P/N:	**FPC**
WRITED:	HONG.ZHAO
DATE:	2023/08/11

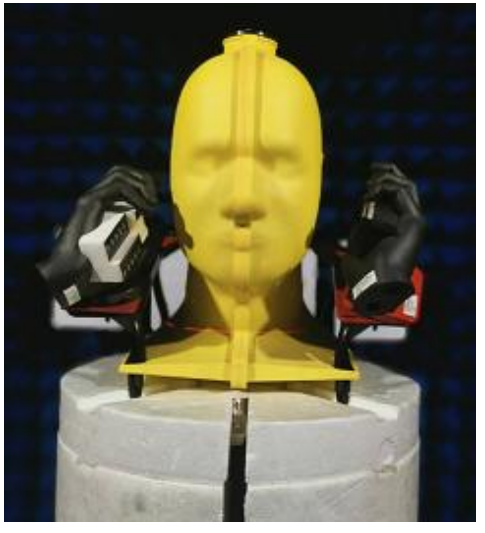
Catalogue

Shenzhen Xinhengyang Technology Co., LTD

1. Test the dark room profile

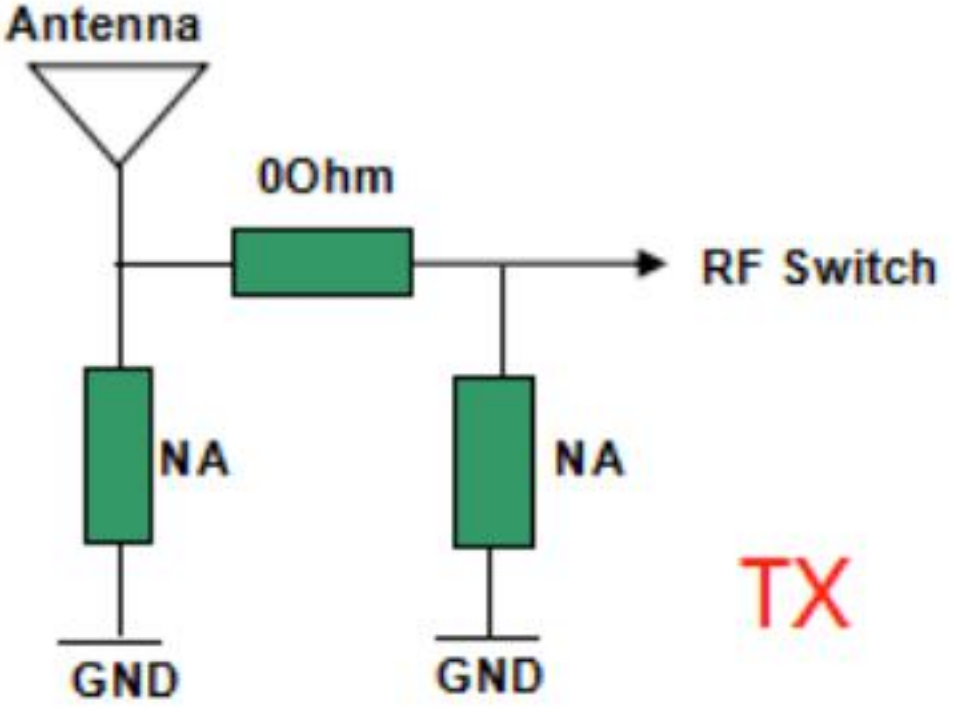
1. Active test: Support 2.3.4.5G multi-mode measurement NB-IoT, eMTC, CAT-1, Bluetooth1-5, WIFI802.11 abgn, measurable TRP TIS
2. Passive test: testable gain and efficiency
3. TWS headset test the head model full set



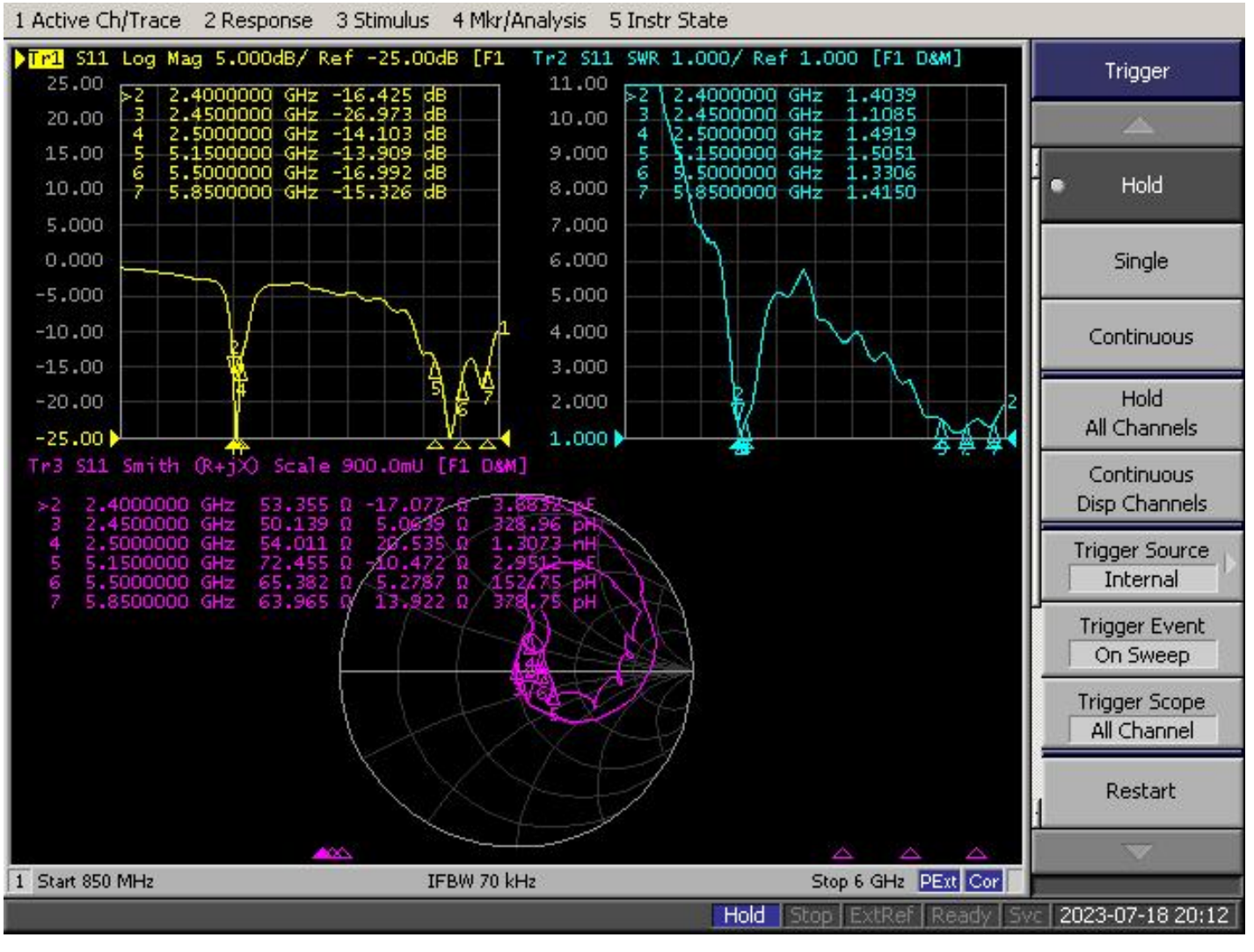


2. Machine table pictures

3. Main board matching circuit



4. Passive Data (Return Loss & VSWR)-TX



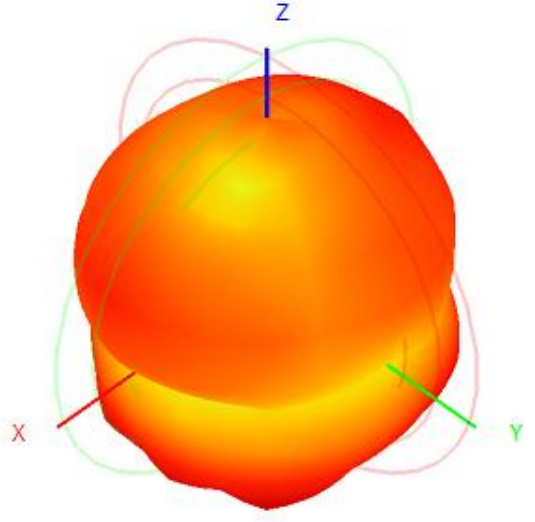
5.1 Passive data (Efficiency & Average gain)-2.4G

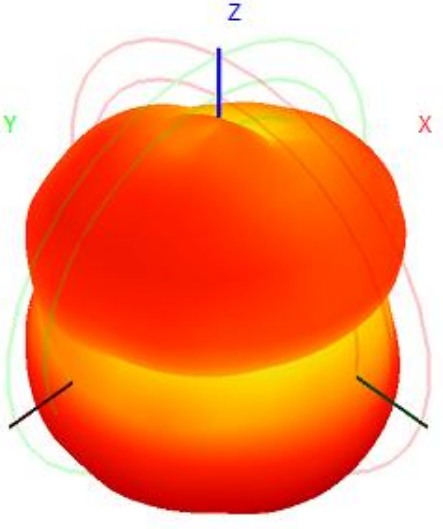
Frequency ID	Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1	2400.0	-2.52	3.56	56.01
2	2405.0	-2.46	3.55	56.73
3	2410.0	-2.46	3.53	56.77
4	2415.0	-2.39	3.61	57.63
5	2420.0	-2.30	3.72	58.89
6	2425.0	-2.25	3.78	59.63
7	2430.0	-2.23	3.76	59.78
8	2435.0	-2.18	3.82	60.54
9	2440.0	-2.03	3.95	62.62
10	2445.0	-1.96	4.00	63.61
11	2450.0	-1.93	4.01	64.17
12	2455.0	-1.83	4.06	65.55
13	2460.0	-1.76	4.10	66.62
14	2465.0	-1.71	4.08	67.47
15	2470.0	-1.67	4.07	68.11
16	2475.0	-1.61	4.10	69.06
17	2480.0	-1.58	4.14	69.46
18	2485.0	-1.58	4.17	69.52
19	2490.0	-1.55	4.22	70.01
20	2495.0	-1.54	4.21	70.22
21	2500.0	-1.53	4.19	70.33

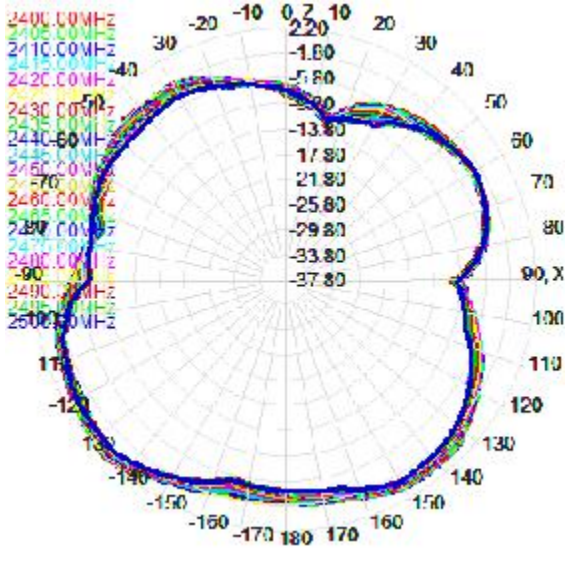
5.2 Passive data (Efficiency & Average gain)-5G

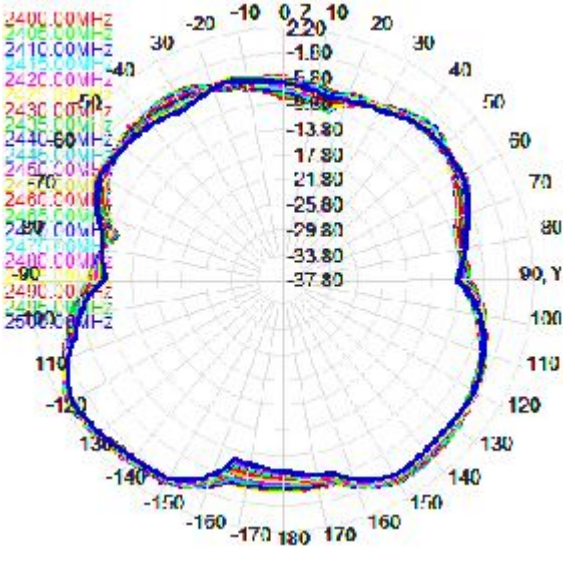
Frequency ID	Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)	Frequency ID	Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1	5150.0	-3.99	0.64	39.90	19	5510.0	-2.81	2.27	52.38
2	5170.0	-3.79	0.97	41.79	20	5530.0	-2.65	2.46	54.28
3	5190.0	-3.28	1.29	47.04	21	5550.0	-2.48	2.50	56.52
4	5210.0	-2.73	1.84	53.28	22	5570.0	-2.28	3.13	59.10
5	5230.0	-2.45	2.11	56.92	23	5590.0	-2.23	3.36	59.87
6	5250.0	-2.44	2.15	57.08	24	5610.0	-2.31	3.03	58.70
7	5270.0	-2.42	2.42	57.29	25	5630.0	-2.65	2.37	54.31
8	5290.0	-2.67	2.36	54.10	26	5650.0	-2.94	1.95	50.87
9	5310.0	-2.98	1.97	50.36	27	5670.0	-3.02	2.09	49.90
10	5330.0	-3.07	1.37	49.30	28	5690.0	-2.96	2.12	50.54
11	5350.0	-2.89	1.66	51.42	29	5710.0	-2.74	2.32	53.19
12	5370.0	-2.47	1.80	56.61	30	5730.0	-2.53	2.73	55.82
13	5390.0	-2.34	1.86	58.37	31	5750.0	-2.45	3.18	56.87
14	5410.0	-2.44	2.67	57.03	32	5770.0	-2.37	3.09	57.98
15	5430.0	-2.41	2.96	57.47	33	5790.0	-2.61	2.46	54.80
16	5450.0	-2.52	2.59	55.93	34	5810.0	-2.87	1.97	51.67
17	5470.0	-2.77	1.96	52.86	35	5830.0	-3.13	1.58	48.59
18	5490.0	-2.91	1.79	51.15	36	5850.0	-3.19	1.70	48.02

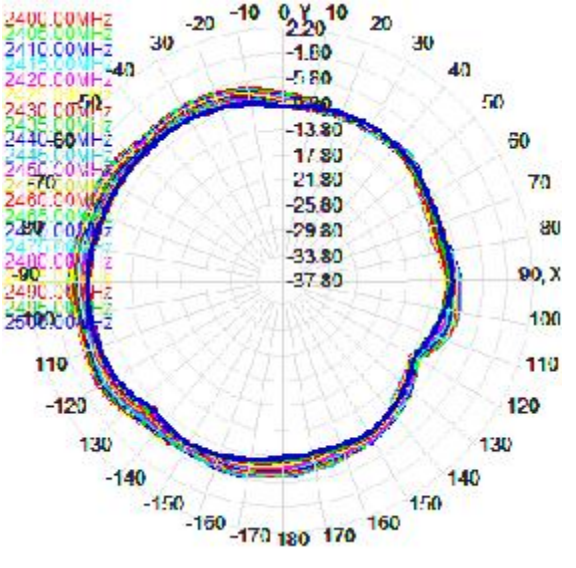
6.1 Passive data (2400-2500 MHz field pattern)-TX



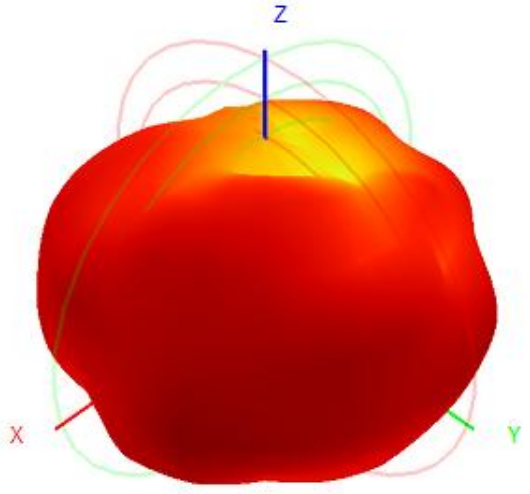


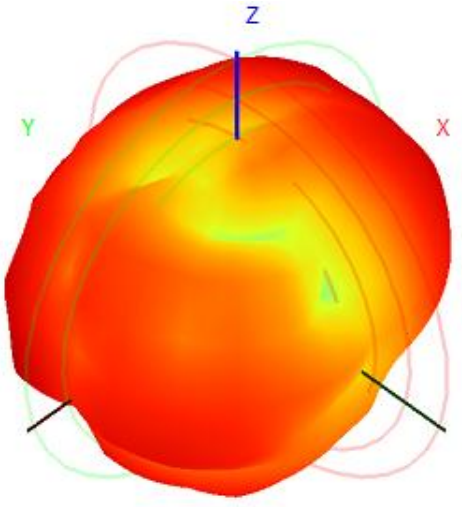


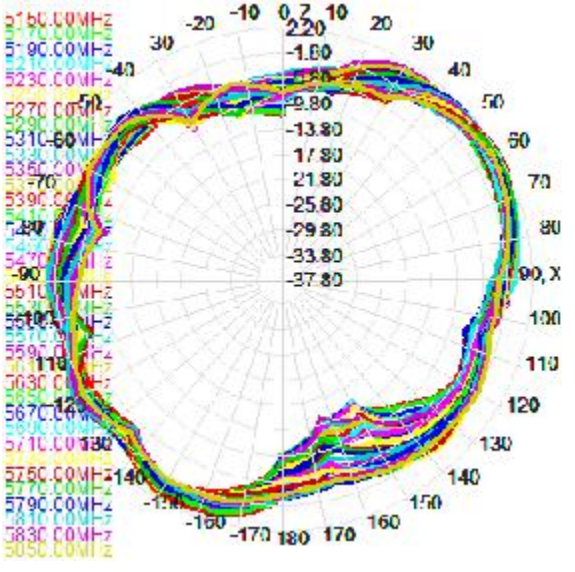


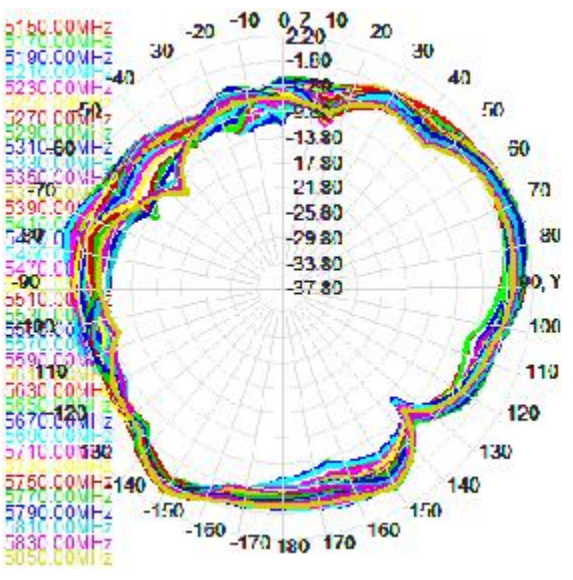


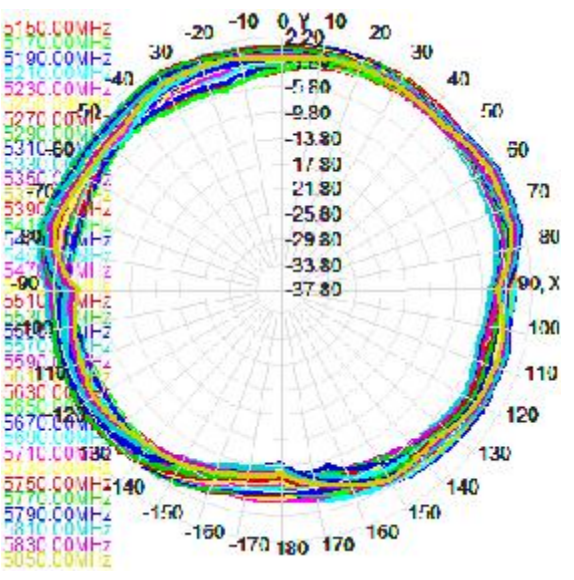
6.2 Passive data (5150-5850 MHz field pattern)-TX











7. Antenna assembly

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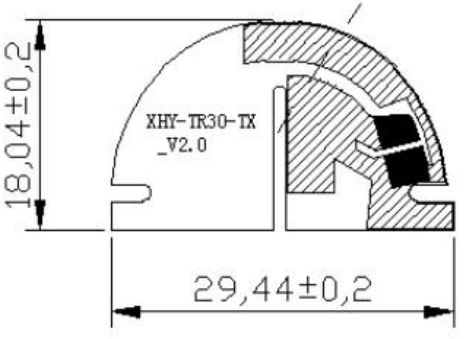
8. Antenna size diagram



注:

1: Surface Electric Gold

1: Copper cloth area

2: Substrate area

3. The back glue adopts 3m 300LSE, the viscosity is above 300MP, no special instructions, the shape of the back glue is the same as the substrate, the back glue is covered on the back of the substrate;
4. FPC material electrolytic copper, one-sided plate, copper foil for a pair of half-substrate, good flexibility;
5. the product after 180 ° bending surface crack-free phenomenon, good flexibility;
6. Gold finger surface gold-plated 3 ~ 5u", there is no oxidation phenomenon, with copper foil joint, after 180 ° bending, no crack, non-conduction phenomenon, non-pattern can not electroplating;
7. line and hole exact tolerance range: ± 0.03 mm, shape size tolerance control within 0.1 mm;
8. unlabeled size according to CAD electronic drawings 1:1 to take;
9. not open mold product proofing shape needs to use laser cutting, if using manual cutting, must pay attention to the shape to cut more accurate, open mold product proofing shape needs to use die stamping;
10. non-pattern, need to cut good shape, after sending samples to our company;
11. surface printing, specific content and

Hand Tear ----------

FPC black silk screen bright black code

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第三角法				Type of machine	TR30 TX	Date		Page number	1 of 1	
0~10	±0.10	○	0.02	Brand name		Design		Audit		
10~20	±0.12	◎	⌀0.03	Material number		Audit	MB			
20~40	±0.15	⊥	0.02	Material	FPC		KF			
40~	±0.20	▱	0.04	Die Treatment		Confirm				
请勿实测图纸	位置	∠	0.02	Appearance treatment		Unit	mm	Proportion	1:1	Version KHY:A