



深圳 市承拓电子有限公司

承认书

APPROVAL SHEET

厂 商:

Manufacturer

深圳市承拓电子有限公司

Shenzhen Chengtuo Electronics Co., Ltd.

原厂名称:

Product Name

FPC-2.4/5.8G 天线

FPC-2.4/5.8G ANT

原厂料号:

Material Code

01010E04001

原厂规格:

Specification

2.4/5.8G- FPC0015-1.37YX 黑-C13-150

2.4/5.8G- FPC0015-1.37YX Black-C13-150

文档编号 Document number	制作 Author	品质 Quality	工程 Engineering	复核 Review	签章 Stamp
20230110-001					
日期 Date					

客 户:

Customer

麦思美

MAXMADE

客户名称:

Customer Name

深圳市麦思美汽车电子有限公司

MAXMADE AUTO ELECTRONICS CO., LTD

客户料号:

Customer number

2-WX01-0150-01-YX-0

客户规格:

Specification

WIFI/BT 天线

WIFI/BT ANT

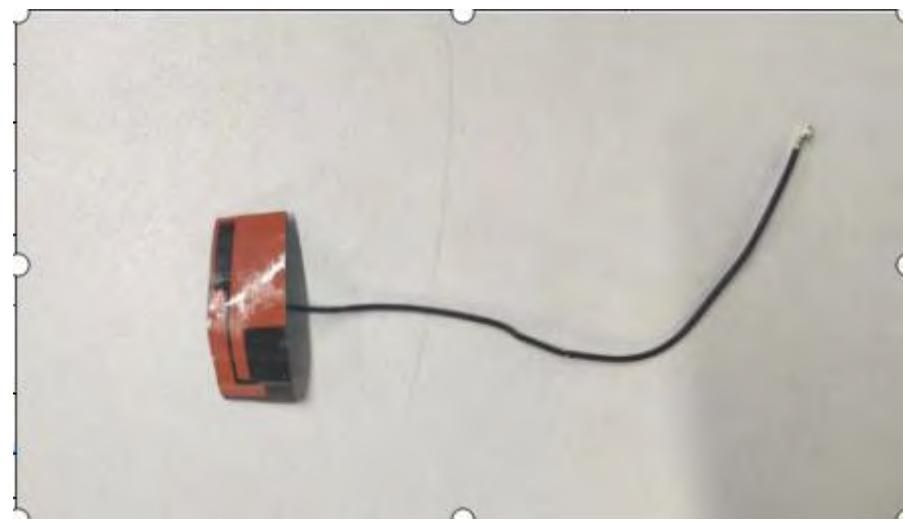
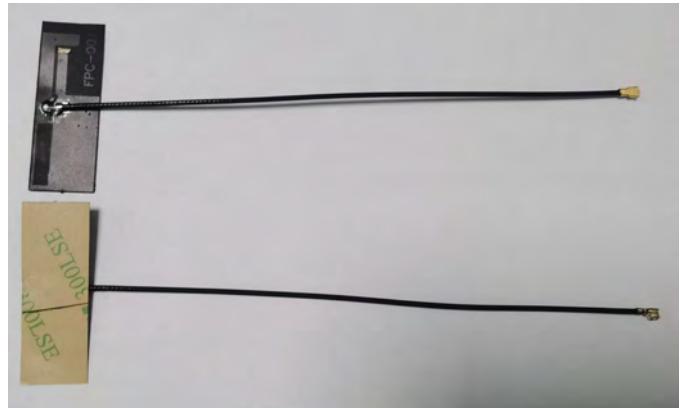
文档编号 Document number	承认人 Recognized by	日期 Date	签章 Stamp



深圳 市承拓电子有限公司

产品参
考图片

Product
Photo



注：承认书一式三份，供应商存档一份，客户存档二份。

Note: The APPROVA SHEET is made in triplicate, with one copy for the supplier
and one copy for the customer



深圳 市 承 拓 电子 有 限 公 司

产品规格书

PRODUCT SPECIFICATION

Customer: shenzhen Chengtuo Electronic Co.,LTD

Customer's part number: 01010E04001

Product description: 2.4/5.8G ANTENNA(Paste type)

Uni Link's part number: 2.4/5.8G- FPC0015-1.37YX 黑-C13-150

Issue Date: 2023-01-10

Note: 2400-2500/5150-5850

Customer Use		Customer's authorized signature	Remarks
Full approved			
Conditional approved			
Rejected			

承拓电子

Tel:86-755-89368800

Fax:86-755-89368100

Website:www.kontec.com.cn



一、产品技术指标 (PRODUCT TECHNICAL SPECIFICATION)

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500/5150-5850
机械指标 Mechanical Specifications	
天线长度 Antenna Length (mm)	42.3*15.3±0.5mm
电缆长度 Cable (mm)	150±5mm
连接器型号 Connect Type	IPEX
固定方式 Mounting	粘贴式 Paste type
线材颜色 Color of Cable	黑色 Black
工作温度 (Operating Temperature)	-30°C ~ +70°C
工作湿度 (%)	0%-95%
贮藏温度 (Storing Temperature)	-35°C ~ +75°C
贮藏湿度 (%)	0%-95%

二、测试数据(test data):

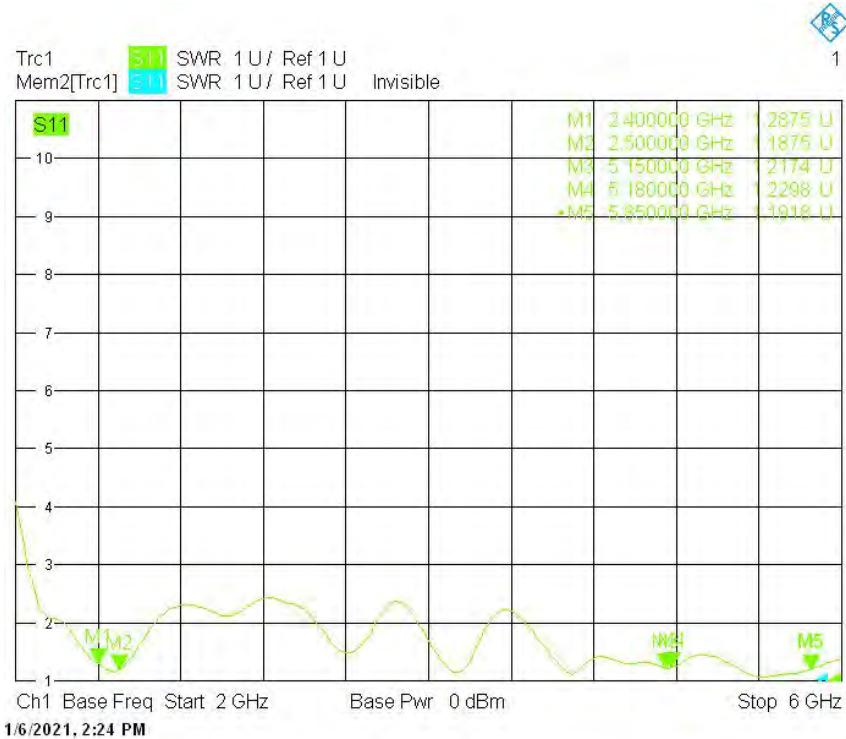
1. 驻波测试(Standing wave test):

测试仪器(test instrument): 罗德与施瓦茨 ZVB8(ROHDE&SCHWARZ ZVB8)





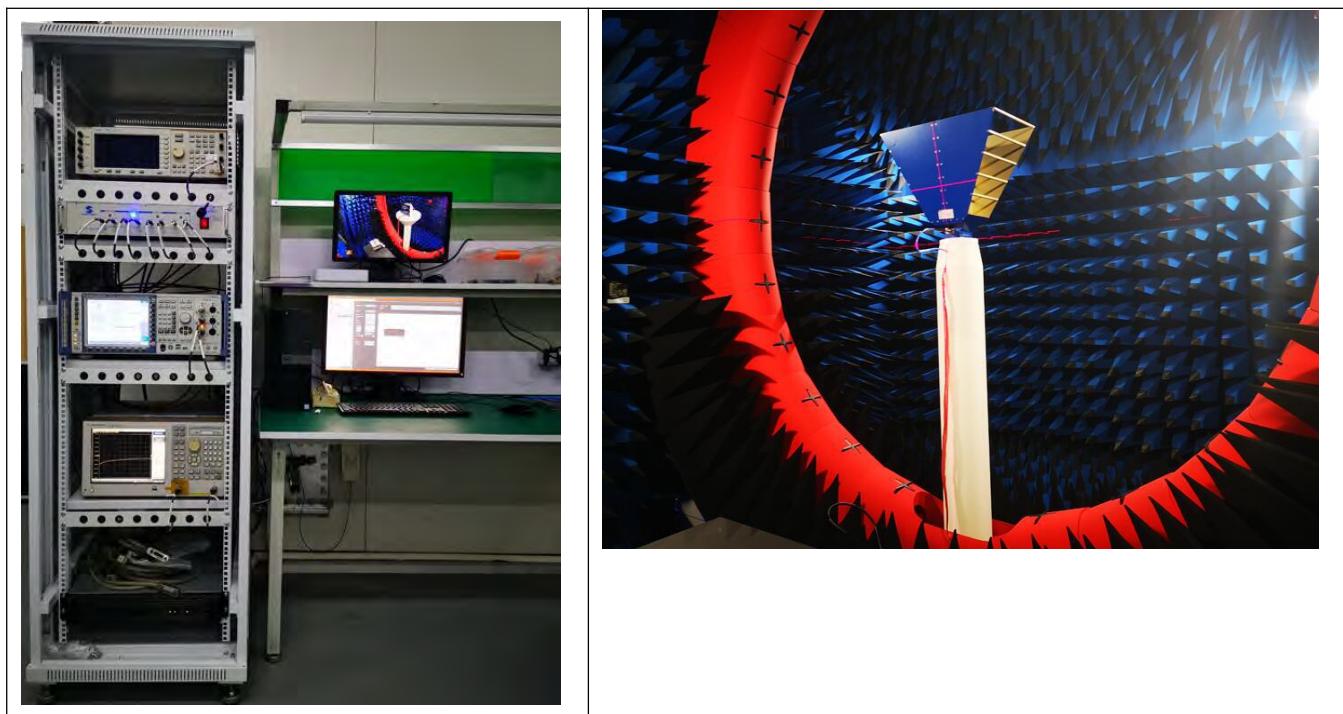
测试数据(test data):



2. OTA 测试(OTA test):

测试设备(test equipment): 24 探头球型微波暗测试室(Test room)

测试仪器(test instrument): 5071B, CMW500, E4438C





测试数据(testing dataset):

2.4G:

Gain&Efficiency 增益和效率						
frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益 (dBi)	CP Gain 交叉极化 最大增益	CO Gain 主极化最 大增益	efficiency 效率(dBi)	efficiency 效率(%)
2400	5.29	-28.44	3.99	3.53	-2.87	51.60
2405	6.31	-26.73	4.98	4.63	-1.8	66.07
2410	5.36	-27.26	4.04	3.71	-2.8	52.47
2415	6.42	-25.11	5.15	4.79	-1.82	65.82
2420	5.22	-25.08	3.94	3.63	-2.94	50.81
2425	5.89	-22.32	4.54	4.35	-1.96	63.61
2430	5.07	-22.88	3.76	3.52	-2.71	53.53
2435	5.93	-23.79	4.69	4.39	-1.86	65.23
2440	5.71	-26.83	4.41	4.26	-1.95	63.77
2445	5.64	-28.29	4.34	4.25	-1.79	66.18
2450	5.59	-33.59	4.33	4.27	-1.77	66.49
2455	5.49	-36.62	4.35	4.17	-1.86	65.12
2460	5.46	-34.05	4.29	4.2	-1.75	66.81
2465	5.58	-32.72	4.38	4.34	-1.59	69.39
2470	5.65	-28.68	4.45	4.39	-1.55	70.04
2475	5.59	-28.42	4.41	4.32	-1.67	68.10
2480	5.63	-26.82	4.45	4.36	-1.68	68.00
2485	5.77	-25.57	4.61	4.48	-1.6	69.21
2490	5.76	-25.31	4.62	4.45	-1.68	67.98
2495	5.7	-24.48	4.58	4.38	-1.76	66.65
2500	5.74	-23.8	4.71	4.4	-1.78	66.32



5.8G:

Gain&Efficiency 增益和效率						
frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	efficiency 效率(dBi)	efficiency 效率(%)
5100	3.9	-30.64	3.23	3.47	-3.35	46.23
5105	4.24	-30.54	3.72	3.86	-3	50.10
5110	3.9	-32.49	3.47	3.52	-3.36	46.11
5115	4.45	-31.98	4.03	4.03	-2.84	52.01
5120	3.98	-33.22	3.61	3.52	-3.31	46.65
5125	4.47	-31.16	4.13	4.11	-2.77	52.80
5130	4.15	-31.82	3.84	3.79	-3.07	49.31
5135	4.49	-30.99	4.15	4.1	-2.74	53.17
5140	4.03	-30.94	3.62	3.57	-3.25	47.29
5145	4.49	-29.88	3.95	3.98	-2.86	51.74
5150	4.26	-29.96	3.74	3.71	-3.09	49.04
5155	4.97	-28.84	4.47	4.39	-2.38	57.75
5160	4.47	-29.05	3.95	3.86	-2.91	51.13
5165	5	-27.8	4.38	4.4	-2.45	56.88
5170	4.71	-27.71	4.12	4.11	-2.76	52.93
5175	5.24	-26.28	4.78	4.65	-2.28	59.12
5180	4.57	-27.09	4.17	3.99	-3.01	49.96
5185	5.02	-27.1	4.59	4.42	-2.57	55.33
5190	4.7	-27.87	4.33	4.09	-2.87	51.68
5195	5.22	-27.56	4.88	4.59	-2.34	58.38
5200	4.76	-28.85	4.42	4.12	-2.77	52.81
5205	5.13	-30.05	4.73	4.48	-2.41	57.39
5210	4.68	-32.64	4.23	4.03	-2.86	51.78
5215	5.12	-32.28	4.54	4.45	-2.46	56.78
5220	4.58	-32.4	3.93	3.91	-3.01	49.98
5225	5	-29.9	4.23	4.35	-2.54	55.72
5230	4.9	-28.52	4.02	4.25	-2.6	54.96
5235	5.26	-27.25	4.34	4.61	-2.27	59.23
5240	4.79	-27.17	3.89	4.13	-2.74	53.16
5245	5.07	-26.79	4.23	4.41	-2.45	56.86
5250	4.54	-27.57	3.76	3.87	-2.95	50.73
5255	4.97	-27.49	4.26	4.28	-2.44	57.05
5260	4.38	-28.69	3.69	3.68	-2.99	50.28
5265	4.9	-28.84	4.16	4.19	-2.46	56.69



5270	4.63	-29.6	3.92	3.91	-2.67	54.08
5275	4.77	-30.48	4.03	4.04	-2.49	56.33
5280	4.36	-32.32	3.54	3.63	-2.91	51.22
5285	4.85	-33.48	3.95	4.11	-2.53	55.88
5290	4.33	-35.72	3.42	3.57	-3.11	48.82
5295	4.9	-34.6	3.95	4.14	-2.43	57.08
5300	4.48	-34.64	3.4	3.71	-2.82	52.19
5305	4.95	-32.19	3.75	4.14	-2.46	56.81
5310	4.59	-31.57	3.38	3.75	-2.85	51.93
5315	5.25	-29.59	4.06	4.36	-2.2	60.29
5320	4.65	-29.11	3.45	3.72	-2.83	52.07
5325	5.26	-28.44	4.07	4.28	-2.23	59.82
5330	4.86	-29.27	3.68	3.83	-2.62	54.68
5335	5.38	-29.28	4.17	4.3	-2.12	61.43
5340	5.29	-29.09	4.11	4.18	-2.19	60.42
5345	5.1	-29.65	3.92	3.96	-2.4	57.58
5350	5.23	-28.98	3.98	4.05	-2.3	58.86
5355	5.42	-29.02	4.01	4.21	-2.18	60.53
5360	4.42	-29.69	2.95	3.18	-3.22	47.66
5365	5.5	-28.77	3.99	4.23	-2.17	60.73
5370	4.52	-31.7	2.94	3.23	-3.17	48.22
5375	5.63	-31.48	3.95	4.31	-2.1	61.71
5380	5.68	-29.58	3.88	4.3	-2.11	61.48
5385	5.6	-28.94	3.72	4.17	-2.27	59.27
5390	5.86	-29.38	3.87	4.4	-2.1	61.67
5395	6.09	-28.87	4.08	4.62	-1.88	64.84
5400	5.99	-30.9	3.92	4.47	-2.03	62.62
5405	5.9	-32.64	3.79	4.36	-2.03	62.62
5410	5.98	-34.03	3.88	4.44	-1.79	66.26
5415	6	-36.4	4	4.46	-1.72	67.28
5420	5.82	-34.35	3.85	4.24	-1.9	64.50
5425	5.59	-33.2	3.59	3.97	-2.13	61.18
5430	5.66	-34.64	3.71	4.03	-2	63.09
5435	5.77	-34.63	3.83	4.14	-1.83	65.66
5440	5.64	-33.66	3.73	4.1	-1.9	64.52
5445	5.63	-32.83	3.67	4.22	-1.82	65.69
5450	5.65	-33.51	3.65	4.37	-1.7	67.63
5455	5.72	-36.23	3.69	4.46	-1.65	68.44
5460	5.64	-34.04	3.59	4.39	-1.75	66.89



5465	5.29	-30.94	3.36	4.08	-2.12	61.35
5470	5.32	-32.48	3.41	4.05	-2.2	60.22
5475	5.61	-34.78	3.59	4.39	-1.87	65.02
5480	5.6	-34.66	3.56	4.52	-1.76	66.72
5485	5.43	-38.86	3.47	4.51	-1.83	65.55
5490	5.38	-32.4	3.43	4.54	-1.85	65.31
5495	5.41	-31.66	3.41	4.57	-1.82	65.75
5500	5.33	-30.87	3.34	4.57	-1.84	65.47
5505	5.31	-31.07	3.25	4.56	-1.86	65.12
5510	4.37	-31.34	2.19	3.55	-2.84	51.99
5515	5.4	-28.74	3.19	4.57	-1.81	65.98
5520	5.4	-27.2	3.07	4.58	-1.82	65.73
5525	5.34	-27.62	2.88	4.52	-1.89	64.75
5530	5.28	-27.96	2.78	4.46	-1.92	64.23
5535	5.33	-28.52	2.83	4.52	-1.83	65.55
5540	5.27	-29.25	2.68	4.45	-1.89	64.71
5545	5.11	-30.23	2.39	4.25	-2.05	62.35
5550	5.14	-43.06	2.42	4.32	-1.95	63.77
5555	5.3	-36.26	2.51	4.46	-1.83	65.60
5560	5.3	-34.54	2.4	4.4	-1.88	64.91
5565	5.32	-33.43	2.26	4.33	-1.91	64.42
5570	5.34	-33.77	2.19	4.3	-1.94	63.96
5575	5.37	-31.47	2.15	4.33	-1.94	63.94
5580	5.45	-30.89	2.29	4.36	-1.86	65.22
5585	5.37	-31.69	2.33	4.29	-1.86	65.09
5590	5.28	-32.26	2.3	4.24	-1.93	64.15
5595	5.34	-33.55	2.37	4.35	-1.87	65.01
5600	5.38	-37.14	2.45	4.38	-1.81	65.89
5605	5.31	-41.01	2.44	4.22	-1.9	64.63
5610	5.28	-37.54	2.47	4.18	-1.9	64.52
5615	5.43	-38.32	2.65	4.27	-1.77	66.47
5620	5.5	-37.66	2.78	4.24	-1.7	67.57
5625	5.36	-36.13	2.77	4	-1.81	65.85
5630	6.5	-32.98	3.93	5.01	-0.76	83.90
5635	5.81	-33.64	3.21	4.2	-1.57	69.66
5640	5.82	-35.05	3.28	4.09	-1.6	69.21

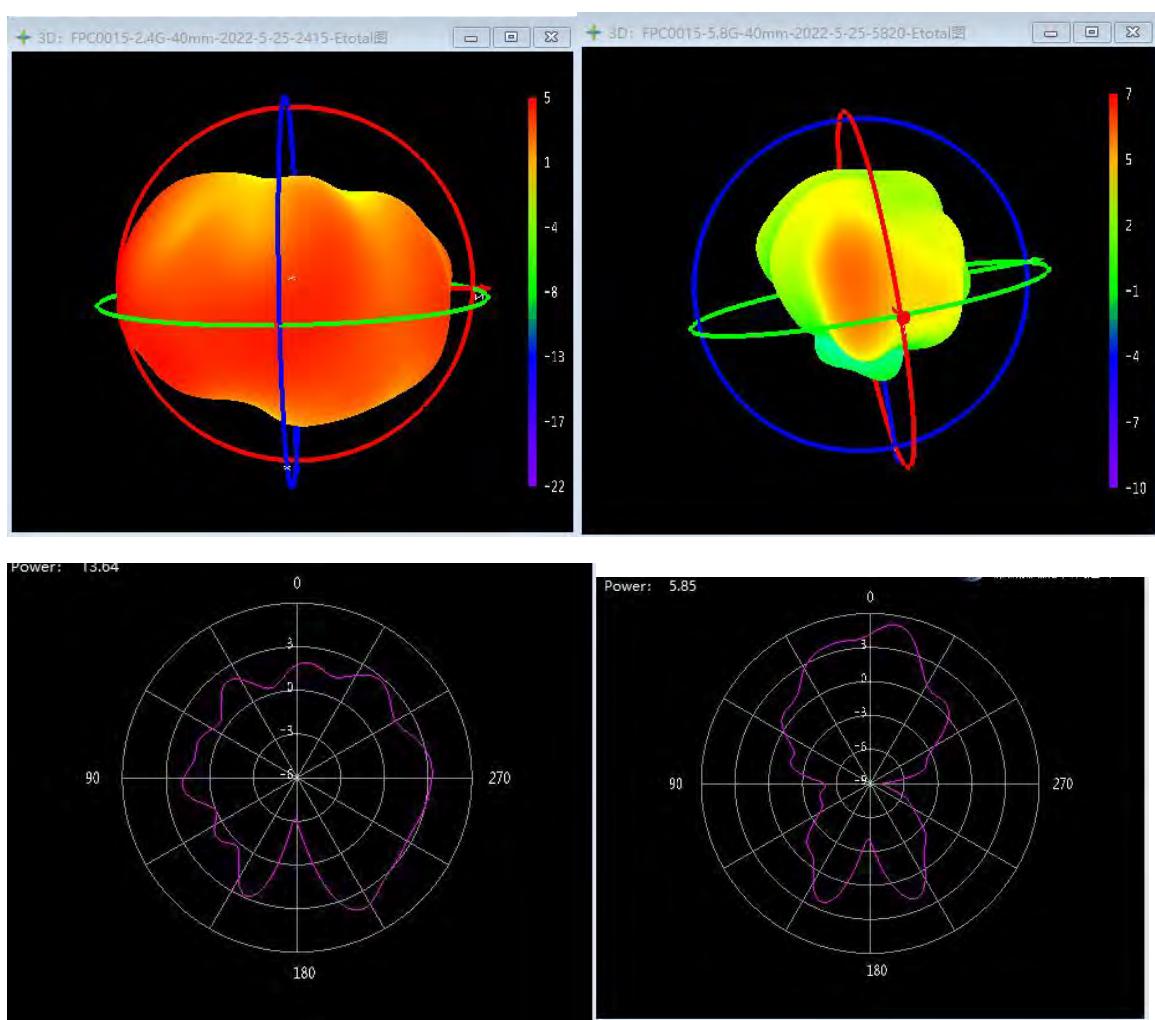


5645	5.74	-34.73	3.21	3.93	-1.73	67.15
5650	5.47	-34.82	2.98	3.61	-2.04	62.46
5655	5.79	-31.96	3.39	3.95	-1.72	67.37
5660	5.8	-30.39	3.46	3.99	-1.7	67.60
5665	5.71	-29.84	3.39	3.98	-1.79	66.16
5670	5.56	-28.89	3.3	3.92	-1.91	64.38
5675	5.52	-28.1	3.34	3.98	-1.91	64.38
5680	5.54	-28.51	3.36	4.08	-1.9	64.51
5685	5.47	-29.97	3.18	4.03	-2.08	61.89
5690	5.31	-31.76	3.03	3.93	-2.28	59.17
5695	5.31	-31.03	3.17	4.06	-2.19	60.35
5700	5.39	-30.46	3.23	4.16	-2.16	60.85
5705	5.45	-28.22	3.41	4.27	-2	63.09
5710	5.74	-28.08	3.82	4.52	-1.72	67.33
5715	5.92	-28.95	4.05	4.73	-1.55	70.02
5720	5.9	-31.79	4.07	4.7	-1.56	69.76
5725	5.51	-35.85	3.76	4.35	-1.89	64.69
5730	5.43	-34.91	3.67	4.27	-2.02	62.82
5735	5.51	-33.37	3.73	4.35	-2	63.06
5740	5.23	-33.63	3.48	4.07	-2.27	59.27
5745	5.58	-41.1	3.73	4.42	-1.99	63.24
5750	5.3	-37.09	3.39	4.12	-2.37	57.99
5755	5.3	-31.55	3.4	4.12	-2.39	57.70
5760	6.5	-30.13	4.6	5.32	-1.21	75.65
5765	5.6	-32.93	3.71	4.42	-2.14	61.06
5770	6.54	-30.4	4.68	5.36	-1.22	75.50
5775	5.56	-30.78	3.7	4.38	-2.23	59.82
5780	5.78	-31.68	3.85	4.58	-2.1	61.69
5785	5.95	-33.71	3.91	4.74	-2.06	62.29
5790	5.87	-36.57	3.79	4.64	-2.17	60.61
5795	5.84	-37.86	3.84	4.6	-2.15	61.02
5800	7.04	-35.21	4.95	5.79	-1.02	79.06
5805	6.17	-34.19	3.95	4.9	-2	63.02
5810	6.07	-33.79	3.89	4.79	-2.09	61.84
5815	5.92	-32.21	3.76	4.62	-2.24	59.72
5820	7.12	-31.45	4.87	5.8	-1.13	77.02
5825	6.3	-33.61	3.99	4.95	-2.03	62.70
5830	6.09	-35.72	3.86	4.72	-2.21	60.15
5835	5.97	-36.31	3.88	4.58	-2.24	59.71



5840	6.15	-38.44	4.11	4.75	-2.06	62.21
5845	6.22	-40.93	4.2	4.79	-2.01	62.89
5850	6.13	-39.86	4.19	4.69	-2.08	61.95
5855	6.07	-37.86	4.14	4.62	-2.17	60.69
5860	6.22	-36.49	4.3	4.77	-2.04	62.45
5865	6.34	-34.07	4.41	4.88	-1.95	63.76
5870	6.23	-34.72	4.3	4.77	-2.1	61.71
5875	6.32	-34.18	4.38	4.86	-2.06	62.30
5880	6.37	-32.15	4.43	4.91	-2.02	62.81
5885	6.38	-30.64	4.42	4.9	-2.07	62.13
5890	6.37	-31.35	4.38	4.88	-2.13	61.27
5895	6.35	-36.74	4.33	4.84	-2.19	60.41
5900	6.46	-40.11	4.43	4.91	-2.1	61.60

3D



注：测试数据以我司实验室为准(The test data shall be subject to our laboratory)。



深圳 市承拓电子有限公司

三、安装位置示意图(installation site):





深圳市承拓电子有限公司

