

SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER : FOTRIC INC.
 Material Code : 10119101000001
 PART NAME : Falcon AC_ANT
 DEVE NO: B91863-00
 AUDEN NO. : AUK01841
 DATE : December 6, 2019

Release : Full release

Customer Approval			
RF ENGINEER	MECHANICAL ENGINEER	R&D MANAGER	PRODUCT MANAGER
AUDEN COMMUNICATIONS&MULTIMEDIA TECHNO (KUNSHAN) CO. LTD			
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REVISION

REV.NO.	DATE	DESCRIPTION
0	December 6, 2019	APPROVAL

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SPECIFICATION FOR QUAD BAND ANTENNA
CUS.P/N : Falcon-AC_ANT
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0. DEFINITIONS

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access
PHS	Personal Handy-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board
TBD	To Be Defined
P	Parallel connection
S	Series connection

1. ELECTRICAL SPECIFICATIONS

1-1 FREQUENCY BAND

1-2

Freq. Band	Tx(MHz)	Rx(MHz)
-------------------	----------------	----------------

1-2 IMPEDANCE

Nominal Impedance(including matching circuit) : 50ohms

1-3 MATCHING REQUIREMENTS

The matching circuit on the PCB of the handset is according to Figure 1-3.

Optimum matching circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available

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Auden Techno(KUNSHAN)CO.LTD

ANTENNA SPECIFICATION

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Gain/ dBi	Freq	TRP	Efficiency	Gain/ dBi	TRP	Efficiency	
1.63	2400	-3.455175	45.1317	5.51	5200	-3.011707	49.98381
1.5	2405	-3.597681	43.674	5.3	5220	-3.066555	49.35651
1.76	2410	-3.626011	43.3909	4.97	5240	-2.9361	50.8616
1.59	2415	-3.561616	44.039	4.5	5260	-2.723444	53.41406
1.46	2420	-3.428683	45.4079	4.08	5280	-2.999674	50.12248
1.7	2425	-3.371713	46.007	4.24	5300	-3.004213	50.07013
1.31	2430	-3.433245	45.3602	4.44	5320	-3.082358	49.17724
1.2	2435	-3.487099	44.8012	4.77	5340	-2.951731	50.67886
1.46	2440	-3.590509	43.7470	5.19	5360	-3.023337	49.85013
1.22	2445	-3.51017	44.5638	5.5	5380	-3.138807	48.54219
1.45	2450	-3.428979	45.4048	5.6	5400	-3.287589	46.90737
1.44	2455	-3.433899	45.3534	5.49	5420	-3.44476	45.24015
1.27	2460	-3.447956	45.2068	5.77	5440	-3.525994	44.4018
1.63	2465	-3.492527	44.7452	5.82	5460	-3.105943	48.9109
1.45	2470	-3.531938	44.3410	5.83	5480	-3.251009	47.30413
1.4	2475	-3.55551	44.1010	5.69	5500	-3.163603	48.26582
1.66	2480	-3.507269	44.5936	5.5	5520	-3.168522	48.21118
1.43	2485	-3.527018	44.3913	5.21	5540	-3.078587	49.21996
1.49	2490	-3.628554	43.3655	4.89	5560	-3.21291	47.72094
1.47	2495	-3.71223	42.5379	4.54	5580	-3.317207	46.58856
1.17	2500	-3.752327	42.1470	4.33	5600	-3.339039	46.35495

3.99	5620	-3.384931	45.86769
4.09	5640	-3.353361	46.20234
4.32	5660	-3.126161	48.68374
4.4	5680	-3.412087	45.58178
4.63	5700	-3.488728	44.78444
5.08	5720	-3.407895	45.6258
5.47	5740	-3.326454	46.48947
5.75	5760	-3.360996	46.12117
5.94	5780	-3.431243	45.38117
5.96	5800	-3.449777	45.18791

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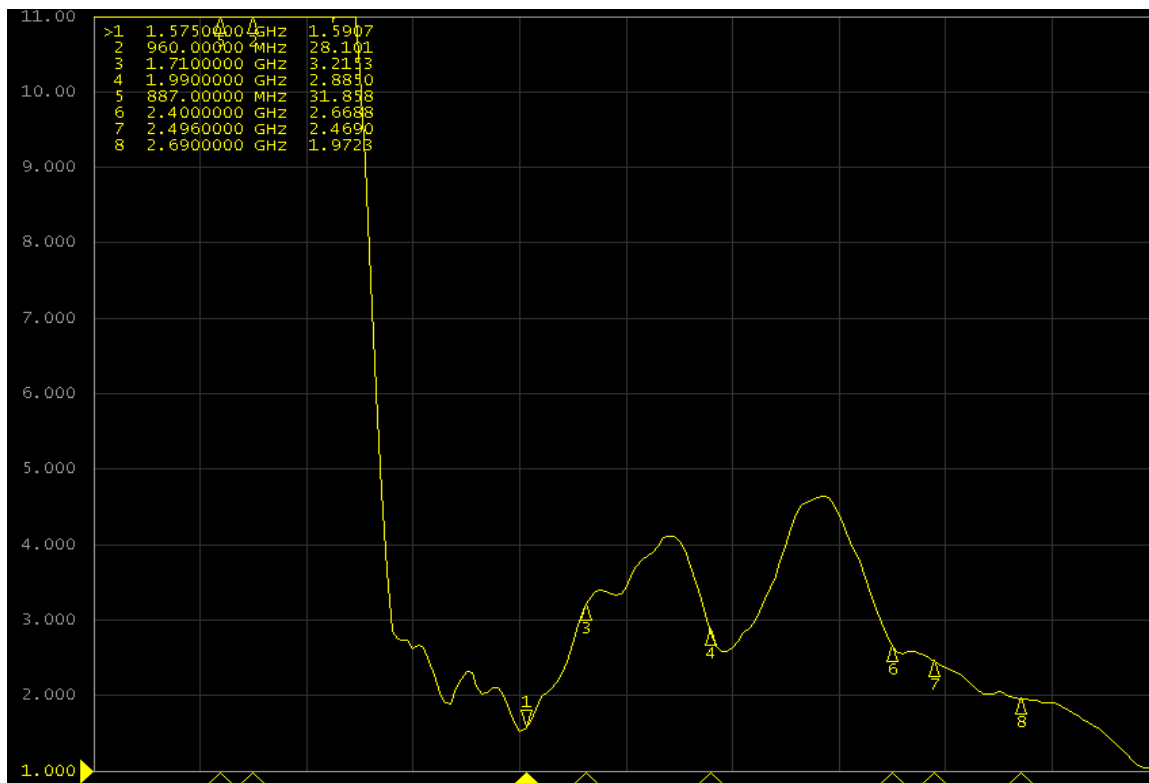
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1-4 WiFi 驻波图



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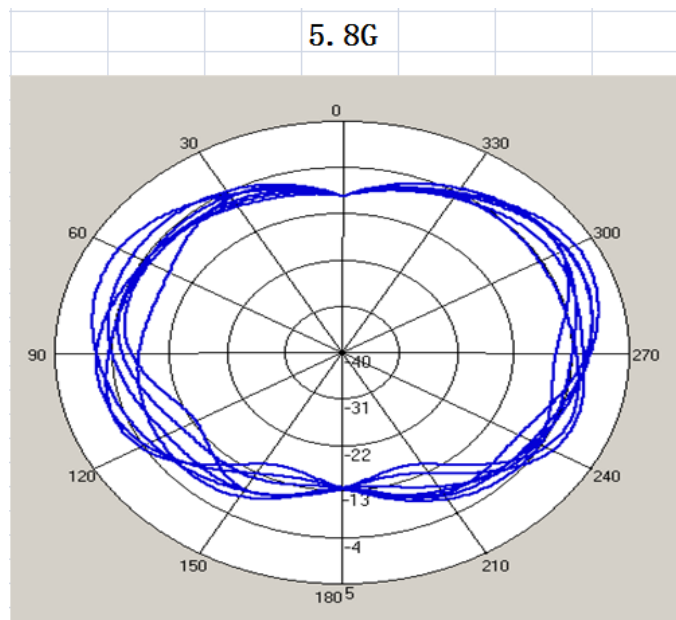
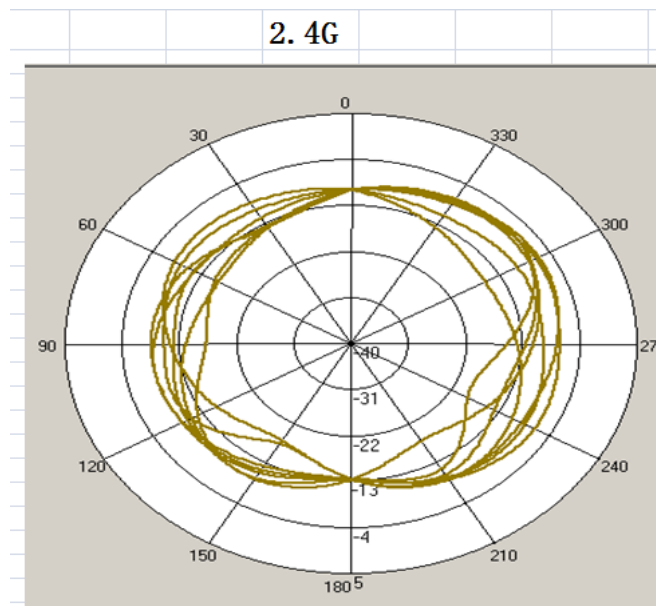
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1-5 2D 图档



2. MECHANICAL SPECIFICATIONS

2-1 MECHANICAL CONFIGURATION

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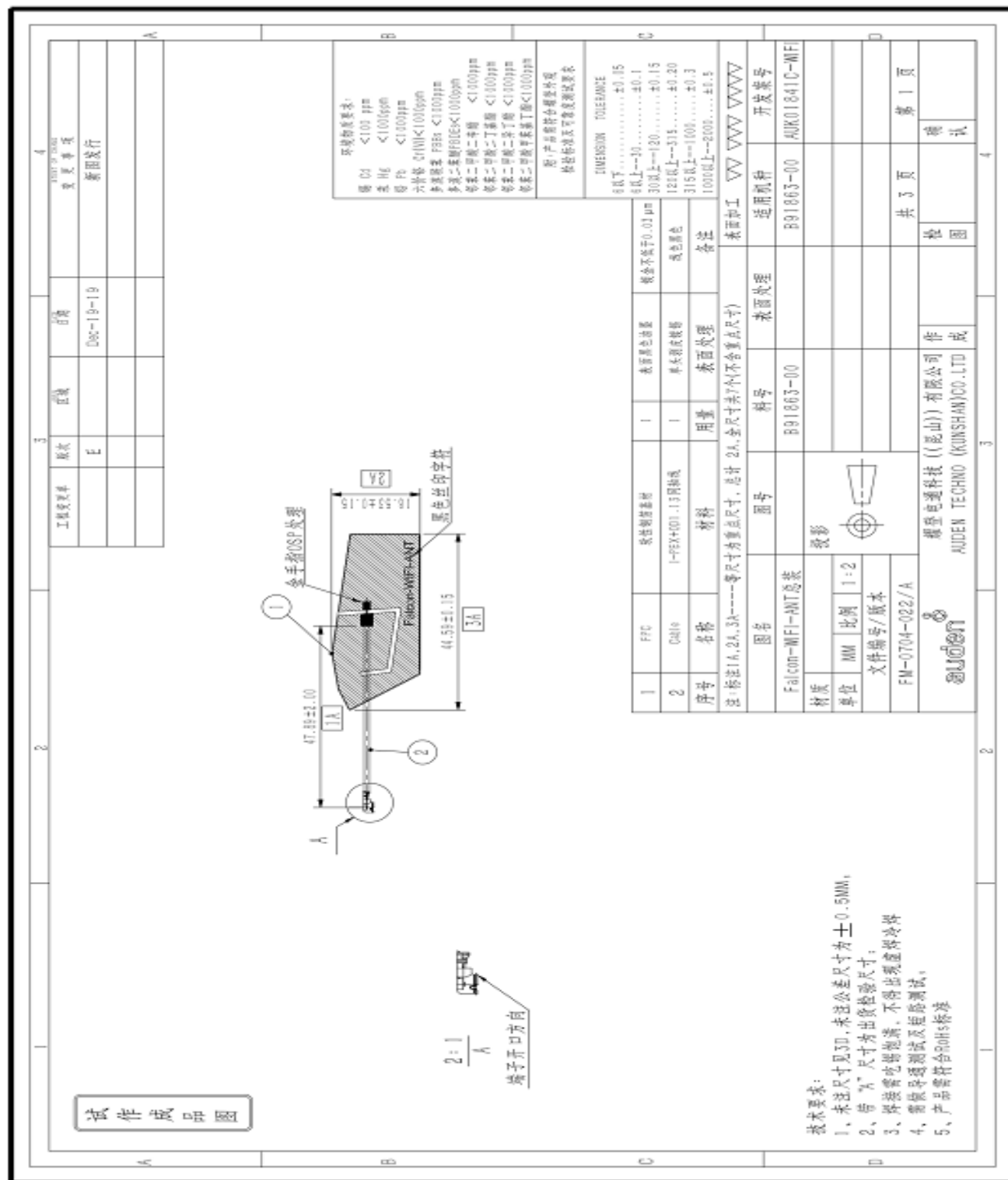
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3.ENVIRONMENTAL CHARACTERISTICS

NO.	ITEM	TEST CONDITION	SPECIFICATION
3-1	Low Temperature Test	1.Temperature: -40±2℃ 2.Time: 48hrs	No material deformation is allowed.
3-2	High Temperature Test	1.Tempearture: +85℃ ±2℃ 2.Time: 48hrs	
3-3	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +60 ±2℃ 2.Humidity: 93%±2%RH 3.Time: 48hrss	
3-4	Salt-Spray Test	35℃, 85%RH, 48Hours(According to MIL-STD-810E) The salt-spray is generated from a 5% salt(NaCl) solution.,	NO appear rusting phenomenon is allowed

耀登电通科技（昆山）有限公司

可靠性测试汇总报告

客户	上海热像科技	客户机种		耀登机种	AUK01841-WIFI	测试结果					备注
可靠性测试项目及要求						1	2	3	4	5	
序号	测试项目	测试时间	测试仪器	测试条件	判定标准						
1	盐雾试验	2019/11/27	盐雾测试机	将产品放于盐雾试验机中，在35℃±2℃的密闭环境中，PH值在6.5-7.2范围内，用5%±1%的NaCl溶液连续48h盐水喷雾后，将样品用清水冲洗干净后检查天线外观；	表面无锈蚀、镀层剥落、起泡等不良现象，RF测试通过为合格。	OK	OK	OK	OK	OK	 盐雾试验.doc
2	低温试验	2019/11/27	恒温恒湿机	将产品放置在温度为-40℃±2℃的低温环境存储48h，试验完成后在常温环境下放置2小时后检查产品外观。	部件无裂痕、明显的变形、脱落，RF测试通过为合格。	OK	OK	OK	OK	OK	 低温试验.doc
3	高温试验	2019/11/29	恒温恒湿机	将产品放置在温度为85℃±2℃的高温环境存储48h，试验完成后在常温环境下放置2 h后检查产品外观。	部件无裂痕、明显的变形、脱落，RF测试通过为合格。	OK	OK	OK	OK	OK	 高温试验.doc
4	高温高湿试验	2019/12/1	恒温恒湿机	将产品放置在温度为60℃±2℃；湿度：93%±2%RH环境存储48h，试验完成后在常温环境下放置2小时后检查产品外观。	部件无裂痕、明显的变形、脱落，RF测试通过为合格。	OK	OK	OK	OK	OK	 高温高湿试验.doc
试验结果判定				可靠性试验合格							
核准：邹菊				审核：麦建国				测试员:孙赞赞			

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auden

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SGS清单

填写说明:
1、按下列窗体展开产品的成份或部件。
2、不同的成份或部件需提供相应的测试报告以及物质安全成分(MSDS)文件, 测试项目为: Cd、Pb、Hg、Cr6+、PBB、PBDE、DBP、DEHP、BBP、DIBP。
3、有害物质含量必须满足客户(供应商ROHS管理规定)要求

产品/物料名称	产品/物料代码	产品/物料版本	组成部件	组成部件代码	组成部件均质材料名称	原材料厂商名称	宣告均质材料中有害物质含量(PPM)										有害物质测试报告编号	测试日期(YY-MM-DD)	豁免条款	ROHS	备注
							Cd	Pb	Hg	Cr6+	PBB	PBDE	DBP	DEHP	BBP	DIBP					
AUK01841-WIFI	B91863-00	A	PI基材	740818-00	PI基材	耀登	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	SHAEC1904039602	2019/3/13			
			黑色油墨		黑色油墨		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	CE_2019_A0149	2019/10/14			
			OSP		OSP		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	CANEC1903726401	2019/7/20			
			3M9471	753370-00	3M9471		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	CANEC1825887001	2018/12/18			
			绝缘体		绝缘体		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A2180259581101003	2019/1/19			
			端子		端子		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A2190187804101016E	2019/7/29			
			黑线		黑线		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A219026163010112	2019/10/18			

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授权人所属部门:	品保	职位:	董事长
授权人职位:	QE		
声明日期:	2019/12/6	签名:	
签名:			

公司名称: 耀登电通科技(昆山)有限公司

加盖公司印章:

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