

深圳天宇通电子有限公司



天宇通科技
TYT TECHNOLOGY

SHENZHEN TYT COMMUNICATION CO.,LTD.

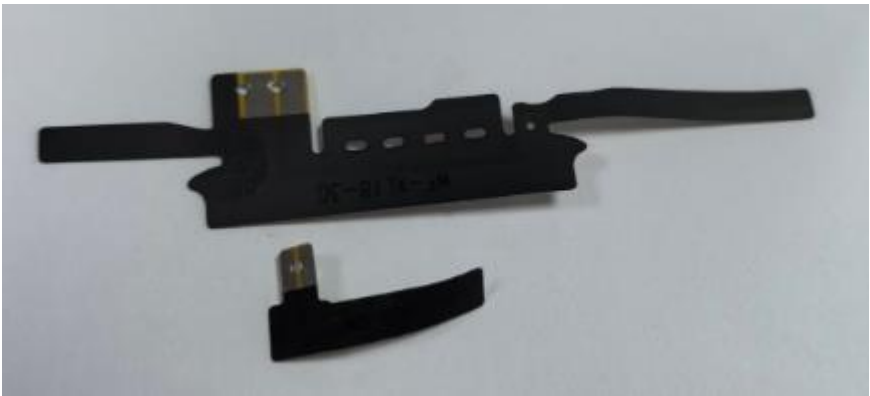
Room 701, Building 212, Tairan Science and Technology Park, Tairan Fourth Road,
Chegongmiao, Futian District, Shenzhen

XL18-3G Antenna Specification

客户	金宏达	频带范围	GSM: 850/900/1800/1900 WCDMA850/1900/2100 WIFI/GPS/BT
项目名称	XL18-3G	RD 设计人	
RF 设计人		审核	
批准		日期	2026-3-21
客户签名:			

承认书目录

1, Antenna Specification



2, Bill of Materials

4. Antenna Darkroom Test Report

No.	Customer item name	Our material code	Component name	Description	Amount
1	XL18-GSM ANT	TYT4712-3G-FPC-GSM-A	GSM ANT	FPC	1
2	XL18-BT ANT	TYT4712-3G-FPC-GWB-A	GWB ANT	FPC	1

	EGSM900			Remarks	DCS1800			Remarks
Channel	1	62	124		512	698	885	
MaxPower (dBm)	30.6	30.5	29.8		27.1	27.3	27.5	
TRP(dBm)	27.3	27.2	26.6		23.2	23.5	23.6	
MaxSensitivity(dBm)			-104.5				-106.3	
TIS(dBm)			-101.3				-102.2	
	EGSM850			Remarks	PCS1900			Remarks
Channel	128	190	250		512	661	810	
MaxPower (dBm)	28.8	29.0	29.5		28.5	28.8	28.6	
TRP(dBm)	25.6	25.8	26.3		24.3	24.6	24.8	
MaxSensitivity(dBm)			-104.8				-106.3	
TIS(dBm)			-101.6				-102.2	

	WCDMA2100			Remarks	WCDMA1900			Remarks
Channel	10562	10700	10838		9663	9800	9937	
MaxPower (dBm)	21.5	21.3	21.0		21.9	21.8	21.6	
TRP(dBm)	17.3	17.2	16.8		17.8	17.6	17.5	
MaxSensitivity(dBm)			-105.6				-106.3	
TIS(dBm)			-101.5				-102.2	
	WCDMA850			Remarks	WCDMA900			Remarks
Channel	4357	4408	4458		2937	3013	3087	
MaxPower (dBm)	19.3	19.5	19.6					
TRP(dBm)	16.2	16.3	16.5					
MaxSensitivity(dBm)			-104.6					
TIS(dBm)			-101.5					

4 GPS/WIFI/BT测试报告

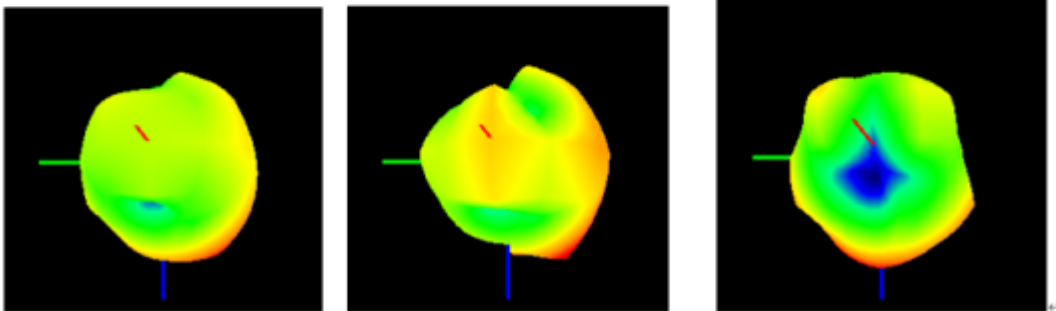
GPS	最大信号强度	搜星数量	冷启动定位时间	天气状况
	38	11	112S	晴
WIFI	距路由器WIFI信号满格距离		无障碍正常上网距离	
	6M		10M	
BT	无障碍通话距离		无障碍播放音频距离	
	10M		10M	



天线增益 2.4G WIFI BT
Antenna Gain, 2.4G WiFi/BT

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	32.31	-4.65	0.91	-1.34	15.415	18.89	0.81	-19.85	52.57	52.52
2410	32.16	-4.54	0.76	-1.39	14.929	20.234	0.76	-19.06	52.61	52.56
2420	32.13	-5.08	0.78	-1.85	12.193	18.832	0.3	-16.99	52.49	52.49
2430	33.49	-4.75	1.11	-1.04	12.234	21.258	1.11	-19.47	52.55	52.52
2440	33.25	-4.53	1.59	-0.56	12.305	22.941	1.59	-20.3	52.69	52.57
2450	33.57	-4.74	1.39	-0.76	11.846	21.727	1.39	-20.47	52.92	52.78
2460	33.51	-4.75	1.28	-0.87	12.482	21.039	1.28	-23.49	52.79	52.62
2470	30.11	-5.24	0.58	-1.57	11.921	18.024	0.58	-26.3	52.83	52.65
2480	34.69	-4.6	0.92	-1.23	14.699	19.988	0.92	-23.39	52.81	52.65
2490	35.98	-4.44	1.17	-0.98	15.883	20.098	1.17	-21.58	53	52.81

2.4GHz 苹果图



5. Antenna Structure Design Drawings

