

CREDITS TECHNOLOGY

SHEET FOR APPROVAL

(Revision : R : A0)

	CUSTOMER(客户名称)		
	CS P/N(客户机种)	S21	
	PART NAME(品名)	Internal Antennal	
	FREQUENCY(频率)	GSM/WCDMA/LTE	
	CREDITS NO.(物料编号)		
	DATE(日期)	2025-05-20	

CUSTOMER（客户确认）			
QA (品质)	ME (结构)	RF (射频)	MANAGER (经理)

Remark(备注):

SHENZHEN CREDITS TECHNOLOGY CO., LTD (深圳科瑞迪斯科技有限公司)			
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ANTENNA SPECIFICATION0

CUS P/N : S21

ApplicationDate: 2025-5-20

Rev: R:A0

CREDITS P/N :

Editor:

Page 1 of 7

Index

1.			General Description	1
2.			Electrical Specifications	2
	2-1		Set-up	2
		2-1-1	<i>Frequency Band</i>	2
		2-1-2	<i>Impedance</i>	2
		2-1-3	<i>Matching Requirements</i>	2
		2-1-4	<i>VSWR</i>	2
	2-2		Test Data	3to4
		2-2-1	<i>VSWR</i>	3
		2-2-2	<i>TRP&T</i>	4
3.			Mechanical Specification	5to7
	3-1		Mechanical Configuration	5
		3-1-1	Mechanical Configuration	5
		3-1-2	Mechanical Configuration	6
	3-2		Measurement Data	7
	3-3		Salt-Spray Test	7
4.			Environment Characteristics	7

ANTENNA SPECIFICATION0

CUS P/N : S21

ApplicationDate: 2025-5-20

Rev: R:A0

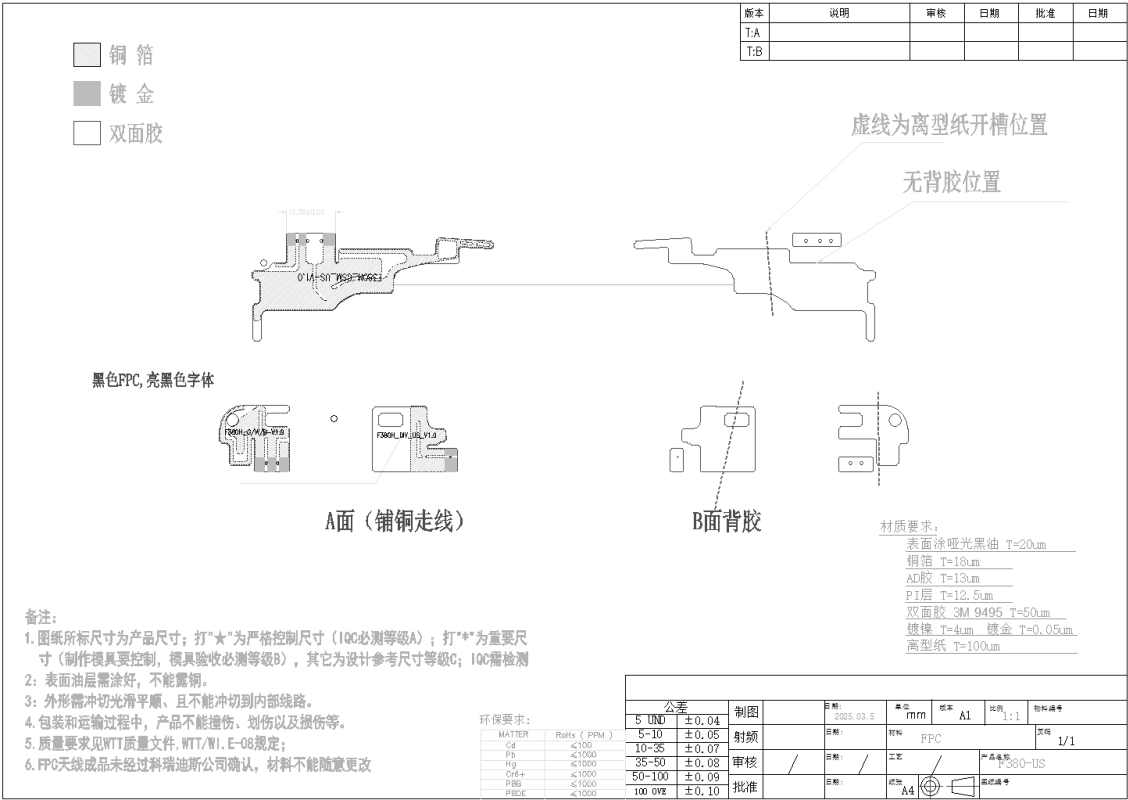
CREDITS P/N :

Editor:

Page 2 of 7

1. General Description

This report summarizes the electrical performance results of the proposed Internal antenna to support the S21 program. The antenna is an assembly GSM850/GSM900/DCS1800/PCS1900/WCDMA/LTE



2. Electrical Specifications

2-1 Set-up

2-1-1 Frequency Band

Frequency Band	Tx(MHz)	Rx(MHz)
GSM900	880 ~ 915	925 ~ 960
DCS1800	1710 ~ 1785	1805 ~ 1880

2-1-2 Impedance

Nominal Impedance(including matching circuit) : 50 ohms

ANTENNA SPECIFICATION0

CUS P/N : S21
CREDITS P/N :

ApplicationDate: 2025-5-20
Editor:

Rev: R:A0
Page 3 of 7

2-1-3 Matching Requirements

The matching circuit on the PCB of the handset is according to Figure 1
Optimum matching circuit is highly dependent on the handset and thus.
Final matching circuit layout and values will be defined when handset is available.

客供

2-1-4 VSWR And GAIN

VSWR		GAIN	
Freq. Band	OPEN SPEC	Band Freq.	OPEN SPEC
880MHz	≤ 3.0	880MHz	$\geq -1.0\text{dBi}$
960MHz	≤ 3.0	960MHz	$\geq -1.0\text{dBi}$
1710MHz	≤ 3.5	1710MHz	$\geq -1.0\text{dBi}$
1880MHz	≤ 3.5	1880MHz	$\geq -1.0\text{dBi}$

※Measuring a 50Ω test jig is connected to a network analyzer to measure the VSWR

※※All test value is done in customer approval fixture.

2-2 Test Data

2-2-1 F380 VSWR

Model No:F380	File:
CREDITS NO:	Note: LTE-VSWR
Sample No:	
Test Condition: Free Space	Matching: 客供
Confirmation:	Engineer:

ANTENNA SPECIFICATION0

CUS P/N : S21

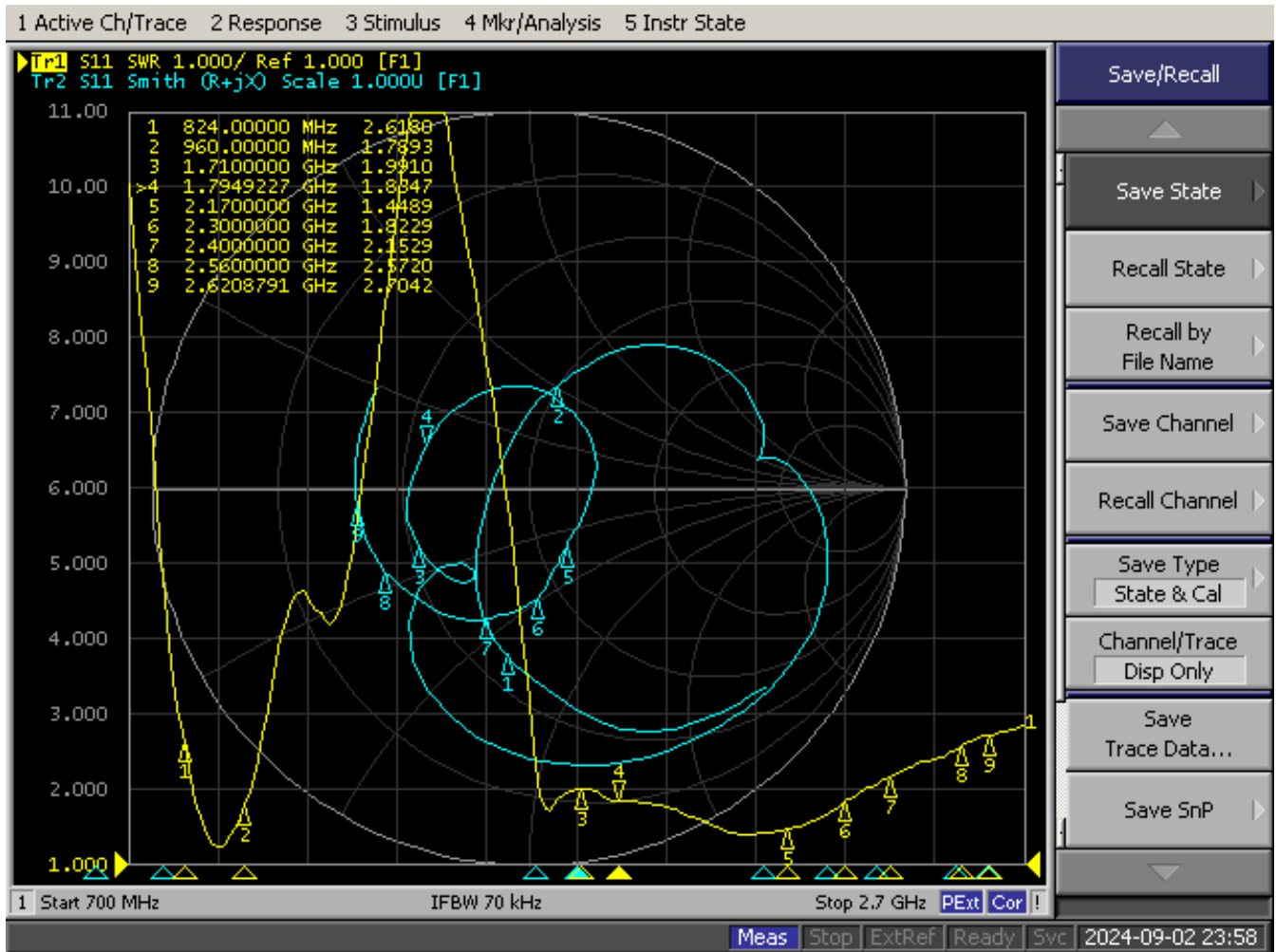
ApplicationDate: 2025-5-20

Rev: R:A0

CREDITS P/N :

Editor:

Page 4 of 7



Model No:F380	File:
CREDITS NO:	Note:
Sample No:	GPS/WIFI-VSWR
Test Condition: Free Space	Matching: 客供
Confirmation:	Engineer:

ANTENNA SPECIFICATION0

CUS P/N : S21

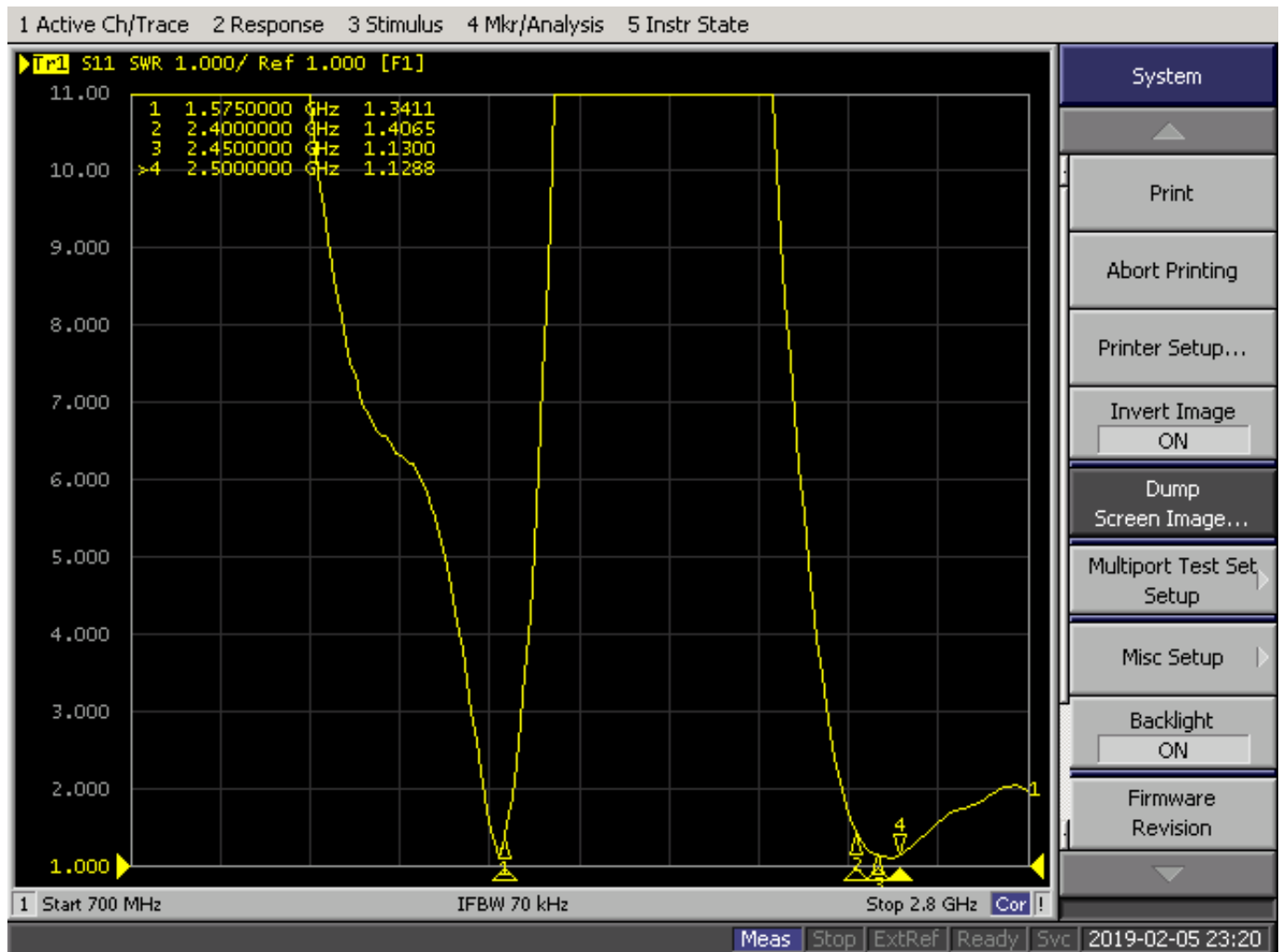
ApplicationDate: 2025-5-20

Rev: R:A0

CREDITS P/N :

Editor:

Page 5 of 7



Model No:F380	File:
CREDITS NO:	Note: DIV-VSWR
Sample No:	
Test Condition: Free Space	Matching: 客供
Confirmation:	Engineer:

ANTENNA SPECIFICATION0

CUS P/N : S21

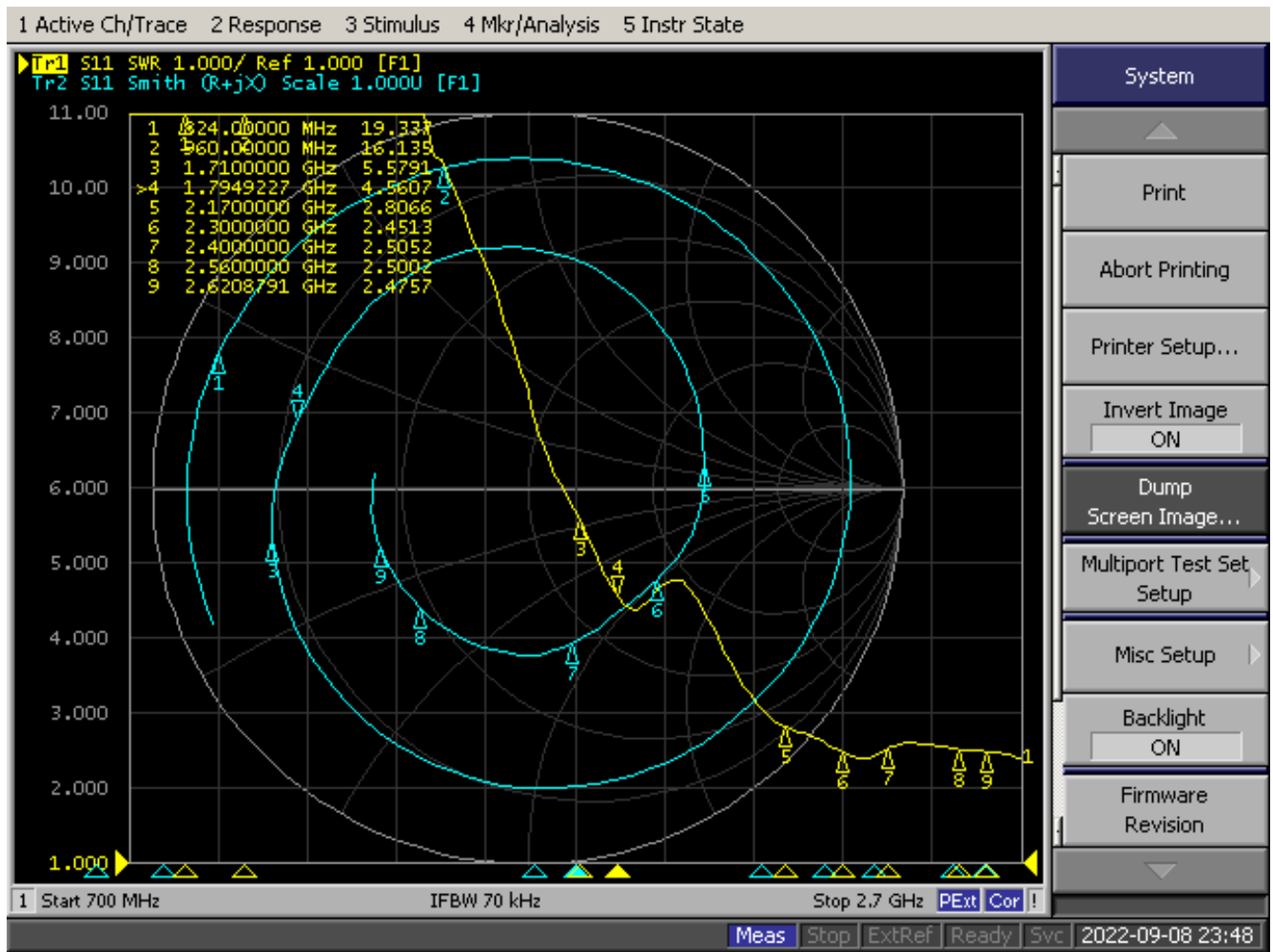
ApplicationDate: 2025-5-20

Rev: R:A0

CREDITS P/N :

Editor:

Page 6 of 7



2.2 增益(GAIN)/ 效率(EFFICIENCY)

主天线的效率：

ANTENNA SPECIFICATION0

CUS P/N : S21

ApplicationDate: 2025-5-20

Rev: R:A0

CREDITS P/N :

Editor:

Page 7 of 7

Passive Test For LTE										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
720	20.31	-6.92	-4.18	-6.33	10.888	9.417	-4.18	-16.25	2.74	90
740	24.3	-6.14	-3.55	-5.7	12.591	11.713	-3.55	-17.15	2.59	90
760	26.46	-5.77	-3.19	-5.34	14.051	12.409	-3.19	-17.25	2.58	90
780	30.46	-5.16	-2.81	-4.96	15.931	14.532	-2.81	-15	2.35	90
800	24.74	-6.07	-3.63	-5.78	13.251	11.484	-3.63	-15.14	2.44	90
820	34.23	-4.66	-2.01	-4.16	18.005	16.221	-2.01	-12.29	2.65	90
840	25.63	-5.91	-3.31	-5.46	13.6	12.031	-3.31	-13.01	2.6	90
860	31.68	-4.99	-2.01	-4.16	16.412	15.269	-2.01	-11.24	2.98	30
880	28.29	-5.48	-2.21	-4.36	14.123	14.166	-2.21	-11.65	3.27	30
900	26.96	-5.69	-2.06	-4.21	12.693	14.265	-2.06	-11.03	3.63	30
920	31.41	-5.03	-1.1	-3.25	13.739	17.671	-1.1	-11.29	3.93	30
940	23.27	-6.33	-2.68	-4.83	10.083	13.183	-2.68	-13.73	3.65	30
960	28.54	-5.45	-1.79	-3.94	11.516	17.025	-1.79	-15.96	3.66	30
1700	31.25	-5.05	-1.09	-3.24	16.386	14.861	-1.09	-18.42	3.96	60
1750	29.71	-5.27	-1.42	-3.57	15.684	14.03	-1.42	-18.16	3.85	60
1800	30.8	-5.11	-1.37	-3.52	16.222	14.583	-1.37	-18.48	3.74	60
1850	34.14	-4.67	-0.96	-3.11	17.806	16.332	-0.96	-18.38	3.71	60
1900	33.55	-4.74	-1.07	-3.22	17.528	16.023	-1.07	-19.01	3.67	60
1950	31.95	-4.96	-1.34	-3.49	16.662	15.283	-1.34	-19.63	3.62	60
2000	34.46	-4.63	-0.97	-3.12	17.662	16.798	-0.97	-19.29	3.66	60
2050	35.92	-4.45	-0.72	-2.87	18.161	17.757	-0.72	-19.22	3.72	30
2100	31.95	-4.96	-1.25	-3.4	16.142	15.803	-1.25	-19.42	3.71	30
2150	32.55	-4.87	-1.19	-3.34	16.266	16.284	-1.19	-19.36	3.68	30
2200	37.63	-4.24	-0.54	-2.69	18.515	19.12	-0.54	-18.8	3.7	30
2250	36.4	-4.39	-0.73	-2.88	17.924	18.476	-0.73	-18.22	3.66	30
2300	34.69	-4.6	-1.03	-3.18	17.102	17.588	-1.03	-17.51	3.57	30
2350	39.31	-4.05	-0.47	-2.62	19.073	20.24	-0.47	-16.77	3.58	30
2400	41.68	-3.8	-0.15	-2.3	19.869	21.809	-0.15	-16.36	3.65	30
2450	38.08	-4.19	-0.56	-2.71	18.072	20.006	-0.56	-15.5	3.63	30
2500	38.2	-4.18	-0.54	-2.69	17.862	20.336	-0.54	-14.68	3.64	30
2550	42.13	-3.75	-0.04	-2.19	19.263	22.864	-0.04	-14.26	3.71	90
2600	40.5	-3.93	-0.23	-2.38	18.456	22.044	-0.23	-14.24	3.69	90

副天线的效率

ANTENNA SPECIFICATION0

CUS P/N : S21

ApplicationDate: 2025-5-20

Rev: R:A0

CREDITS P/N :

Editor:

Page 8 of 7

Passive Test For LTE										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
1700	30.83	-5.11	-1.25	-3.4	0	0	-1.25	-20.41	5.11	60
1750	30.5	-5.16	-1.23	-3.38	0	0	-1.23	-20.35	5.16	60
1800	30.39	-5.17	-1.22	-3.37	0	0	-1.22	-20.04	5.17	60
1850	29.56	-5.29	-1.3	-3.45	0	0	-1.3	-19.73	5.29	60
1900	30.79	-5.12	-1.1	-3.25	0	0	-1.1	-19.31	5.12	60
1950	31.31	-5.04	-1.01	-3.16	0	0	-1.01	-19.03	5.04	30
2000	29.92	-5.24	-1.16	-3.31	0	0	-1.16	-19.05	5.24	30
2050	31.72	-4.99	-0.87	-3.02	0	0	-0.87	-18.57	4.99	30
2100	32.24	-4.92	-0.8	-2.95	0	0	-0.8	-18.34	4.92	30
2150	30.58	-5.15	-0.99	-3.14	0	0	-0.99	-18.41	5.15	30
2200	30.29	-5.19	-1	-3.15	0	0	-1	-18.4	5.19	30
2250	30.16	-5.21	-1.01	-3.16	0	0	-1.01	-18.51	5.21	30
2300	30.23	-5.2	-0.94	-3.09	0	0	-0.94	-18.46	5.2	30
2350	29.26	-5.34	-0.97	-3.12	0	0	-0.97	-18.59	5.34	30
2400	29.01	-5.37	-0.96	-3.11	0	0	-0.96	-18.78	5.37	30
2450	30.82	-5.11	-0.73	-2.88	0	0	-0.73	-18.59	5.11	30
2500	29.22	-5.34	-0.97	-3.12	0	0	-0.97	-18.61	5.34	30
2550	28.26	-5.49	-1.14	-3.29	0	0	-1.14	-18.66	5.49	30
2600	31.22	-5.06	-0.78	-2.93	0	0	-0.78	-18.29	5.06	30

GPS/WIFI 的效率

Passive Test For GPS/WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
1560	31.88	-4.97	-1.33	-3.48	0	0	-1.33	-19.68	4.97	90
1570	32.57	-4.87	-1.22	-3.37	0	0	-1.22	-19.93	4.87	90
1580	33	-4.82	-1.13	-3.28	0	0	-1.13	-20.28	4.82	90
2400	29.26	-5.34	-0.97	-3.12	15.516	13.749	-0.97	-18.59	4.37	30
2420	29.01	-5.37	-0.96	-3.11	15.309	13.699	-0.96	-18.78	4.42	30
2440	30.82	-5.11	-0.73	-2.88	16.292	14.533	-0.73	-18.59	4.39	30
2460	29.22	-5.34	-0.97	-3.12	15.392	13.827	-0.97	-18.61	4.38	30
2480	28.26	-5.49	-1.14	-3.29	14.853	13.403	-1.14	-18.66	4.35	30
2500	31.22	-5.06	-0.78	-2.93	16.533	14.685	-0.78	-18.29	4.28	30
4900	23.39	-6.31	-1.6	-3.75	0	0	-1.6	-21.14	6.31	60
5100	24.91	-6.04	-1.43	-3.58	0	0	-1.43	-19.61	6.04	0
5300	24.01	-6.2	-1.54	-3.69	0	0	-1.54	-19.47	6.2	0
5500	24.54	-6.1	-1.41	-3.56	0	0	-1.41	-19.7	6.1	0
5700	24.41	-6.12	-1.45	-3.6	0	0	-1.45	-19.7	6.12	0
5900	24.11	-6.18	-1.47	-3.62	0	0	-1.47	-19.59	6.18	90

ANTENNA SPECIFICATION0

CUS P/N : S21

ApplicationDate: 2025-5-20

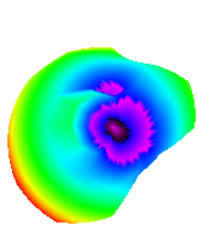
Rev: R:A0

CREDITS P/N :

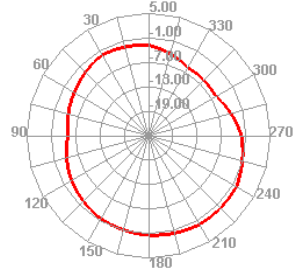
Editor:

Page 9 of 7

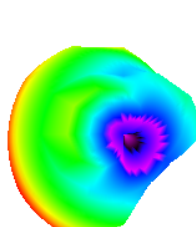
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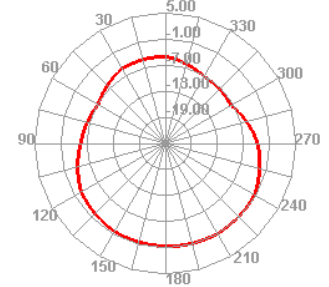
2400.000MHz H



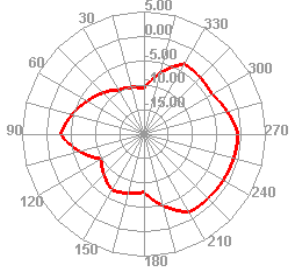
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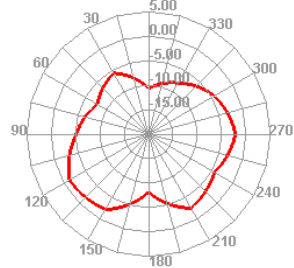
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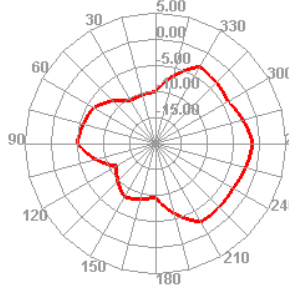
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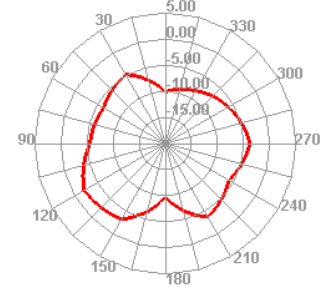
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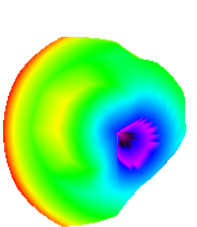
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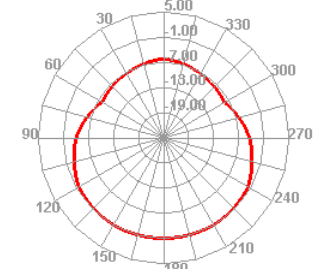
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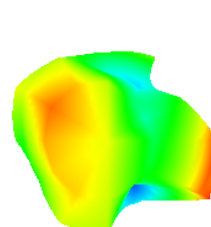
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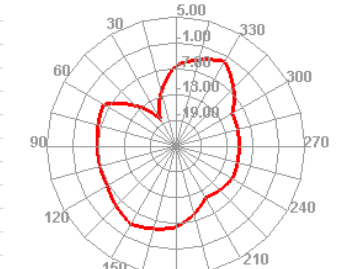
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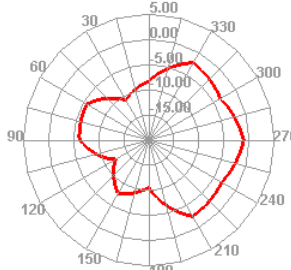
5000.000MHz



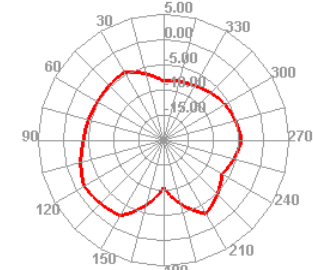
5000.000MHz H



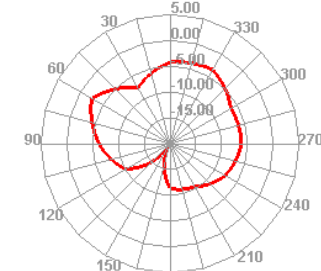
2500.000MHz E1



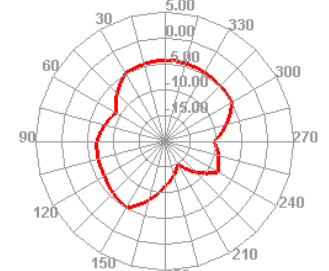
2500.000MHz E2



5000.000MHz E1



5000.000MHz E2

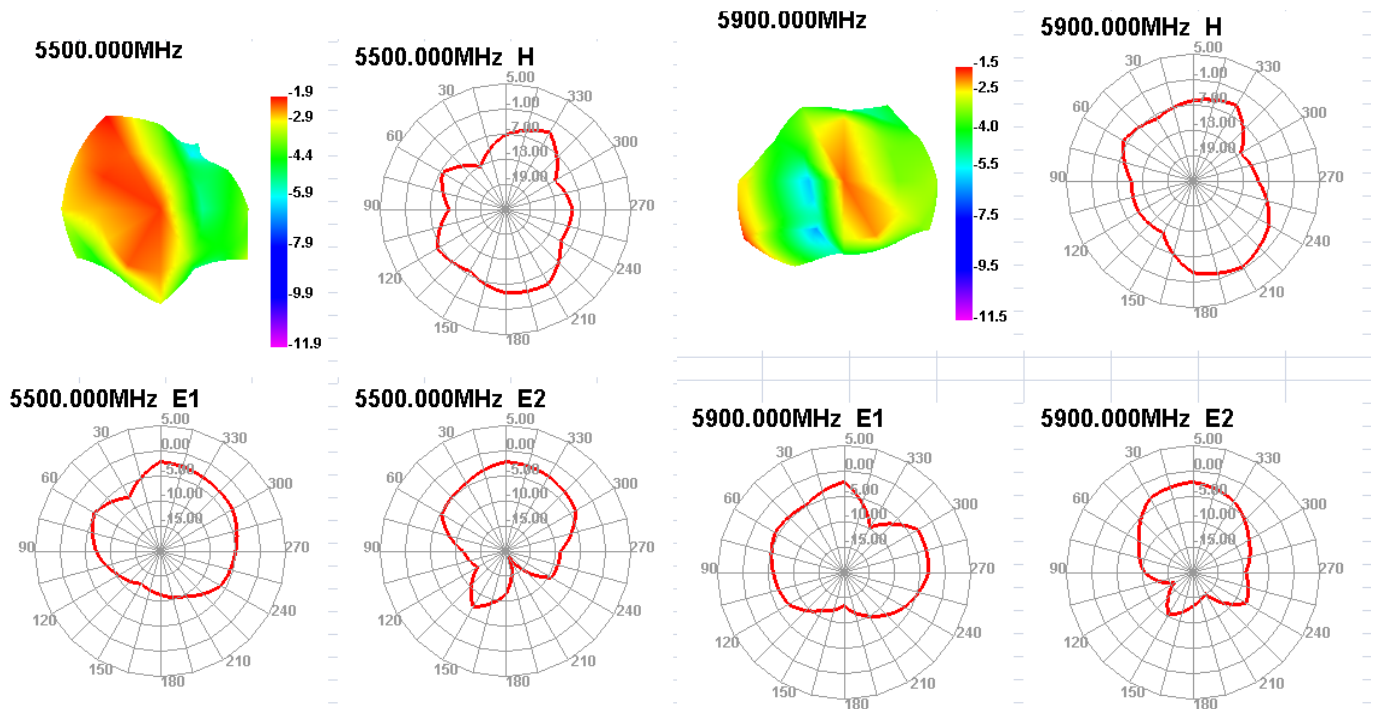


ANTENNA SPECIFICATION0

CUS P/N : S21
CREDITS P/N :

ApplicationDate: 2025-5-20
Editor:

Rev: R:A0
Page 10 of 7



2.3 TRP&TIS

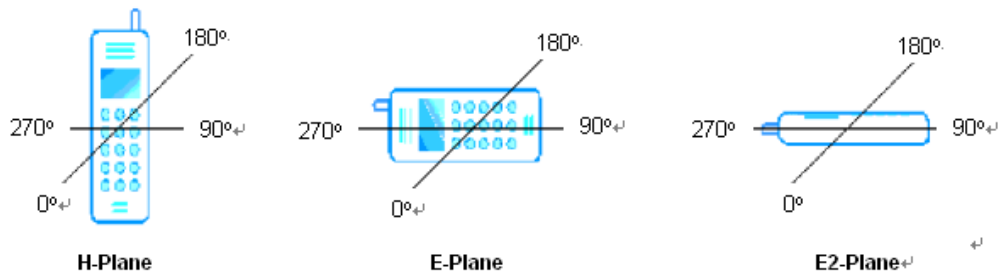
ynamic Test Report

App No:

Test Date:2025-05-20

Operating Model: EGSM/LTE

HP8960/5515C/8820C



ANTENNA SPECIFICATION0

CUS P/N : S21

ApplicationDate: 2025-5-20

Rev: R:A0

CREDITS P/N :

Editor:

Page 11 of 7

Test	LTE1 TRP			Test	LTE1 TIS	Test	LTE3 TRP			Test	LTE3 TIS
Result	18050	18300	18550	Result	300	Result	19250	19575	19900	Result	1575
Frequency	1925	1950	1975	Frequency	2140	Frequency	1715	1747.5	1780	Frequency	1842.5
BW	10M	10M	10M	BW	10M	BW	10M	10M	10M	BW	10M
TRP(dBm)	18.19	18.68	19.22	TIS(dBm)	-92.31	TRP(dBm)	18.09	17.94	17.19	TIS(dBm)	-92.57
NHPRP(dBr)	18.19	18.68	19.22	NHPIS(dBr)	-92.31	NHPRP(dBr)	18.09	17.94	17.19	NHPIS(dBr)	-92.57
MAX(dBm)	22.81	23.46	23.98	MAX(dBm)	-96.82	MAX(dBm)	22.61	22.71	22.09	MAX(dBm)	-97.69
EIRP peak	22.81	23.46	23.98	EIS peak	-96.82	EIRP peak	22.61	22.71	22.09	EIS peak	-97.69
Min(dBm)	10.88	11.48	5.29	Min(dBm)	-79.97	Min(dBm)	11.34	11.92	10.27	Min(dBm)	-84.34
Test	LTE5 TRP			Test	LTE5 TIS	Test	LTE7 TRP			Test	LTE7 TIS
Result	20450	20525	20600	Result	2525	Result	20800	21100	21400	Result	3100
Frequency	829	836.5	844	Frequency	881.5	Frequency	2505	2535	2565	Frequency	2655
BW	10M	10M	10M	BW	10M	BW	10M	10M	10M	BW	10M
TRP(dBm)	19.28	19.45	19.77	TIS(dBm)	-93.92	TRP(dBm)	16.69	17.15	16.75	TIS(dBm)	-89.31
NHPRP(dBr)	19.28	19.45	19.77	NHPIS(dBr)	-93.92	NHPRP(dBr)	16.69	17.15	16.75	NHPIS(dBr)	-89.31
MAX(dBm)	21.99	22.27	22.67	MAX(dBm)	-97.06	MAX(dBm)	20.99	21.19	20.93	MAX(dBm)	-94.21
EIRP peak	21.99	22.27	22.67	EIS peak	-97.06	EIRP peak	20.99	21.19	20.93	EIS peak	-94.21
Min(dBm)	6.52	9.39	9.6	Min(dBm)	-86.08	Min(dBm)	4.62	4.74	5.92	Min(dBm)	-74.57
Test	LTE2 TRP			Test	LTE2 TIS	Test	LTE4 TRP			Test	LTE4 TIS
Result	18650	18900	19150	Result	900	Result	20000	20175	20350	Result	2175
Frequency	1855	1880	1905	Frequency	1960	Frequency	1715	1732.5	1750	Frequency	2132.5
BW	10M	10M	10M	BW	10M	BW	10M	10M	10M	BW	10M
TRP(dBm)	17.76	18.46	18.28	TIS(dBm)	-91.31	TRP(dBm)	18.5	18.74	17.95	TIS(dBm)	-90.23
NHPRP(dBr)	17.76	18.46	18.28	NHPIS(dBr)	-91.31	NHPRP(dBr)	18.5	18.74	17.95	NHPIS(dBr)	-90.23
MAX(dBm)	22.75	22.94	23.08	MAX(dBm)	-96.51	MAX(dBm)	22.95	23.28	22.72	MAX(dBm)	-94.54
EIRP peak	22.75	22.94	23.08	EIS peak	-96.51	EIRP peak	22.95	23.28	22.72	EIS peak	-94.54
Min(dBm)	9.3	8.61	10.23	Min(dBm)	-80.71	Min(dBm)	10.29	12.27	11.54	Min(dBm)	-85.31
Test	LTE13 TRP			Test	LTE13 TIS	Test	LTE66 TRP			Test	LTE66 TIS
Result	23230			Result	5230	Result	132022	132422	132822	Result	66886
Frequency	782			Frequency	751	Frequency	1715	1755	1795	Frequency	2155
BW	10M			BW	10M	BW	10M	10M	10M	BW	10M
TRP(dBm)	18.43			TIS(dBm)	-91.98	TRP(dBm)	19.05	19.13	19.29	TIS(dBm)	-93.47
NHPRP(dBr)	18.43			NHPIS(dBr)	-91.98	NHPRP(dBr)	19.05	19.13	19.29	NHPIS(dBr)	-93.47
MAX(dBm)	20.91			MAX(dBm)	-94.35	MAX(dBm)	23.65	23.91	24	MAX(dBm)	-97.6
EIRP peak	20.91			EIS peak	-94.35	EIRP peak	23.65	23.91	24	EIS peak	-97.6
Min(dBm)	2.97			Min(dBm)	-75.66	Min(dBm)	12.31	12.64	12.94	Min(dBm)	-88.3
Test	LTE12 TRP			Test	LTE12 TIS	Test	LTE17 TRP			Test	LTE17 TIS
Result	23060	23095	23130	Result	5095	Result	23780	23790	23800	Result	5790
Frequency	703	706.5	710	Frequency	736.5	Frequency	709	710	711	Frequency	740
BW	10M	10M	10M	BW	10M	BW	10M	10M	10M	BW	10M
TRP(dBm)	17.36	18.31	18.74	TIS(dBm)	-91.44	TRP(dBm)	17.61	18.19	18.35	TIS(dBm)	-91.19
NHPRP(dBr)	17.36	18.31	18.74	NHPIS(dBr)	-91.44	NHPRP(dBr)	17.61	18.19	18.35	NHPIS(dBr)	-91.19
MAX(dBm)	19.85	20.83	21.34	MAX(dBm)	-94.2	MAX(dBm)	20.43	20.77	20.96	MAX(dBm)	-93.74
EIRP peak	19.85	20.83	21.34	EIS peak	-94.2	EIRP peak	20.43	20.77	20.96	EIS peak	-93.74
Min(dBm)	4.22	5.79	6.54	Min(dBm)	-78.74	Min(dBm)	5.94	6.2	6.07	Min(dBm)	-76.58
Test	LTE71 TRP			Test	LTE71 TIS						
Result	133172	133297	133422	Result	68761						
Frequency	668	680.5	693	Frequency	634.5						
BW	10M	10M	10M	BW	10M						
TRP(dBm)	14.43	16.92	17.09	TIS(dBm)	-84.07						
NHPRP(dBr)	14.43	16.92	17.09	NHPIS(dBr)	-84.07						
MAX(dBm)	16.52	19.33	19.54	MAX(dBm)	-86.22						
EIRP peak	16.12	19.33	19.54	EIS peak	-86.22						
Min(dBm)	1.96	3.78	4.65	Min(dBm)	-46.77						

ANTENNA SPECIFICATION0

CUS P/N : S21

ApplicationDate: 2025-5-20

Rev: R:A0

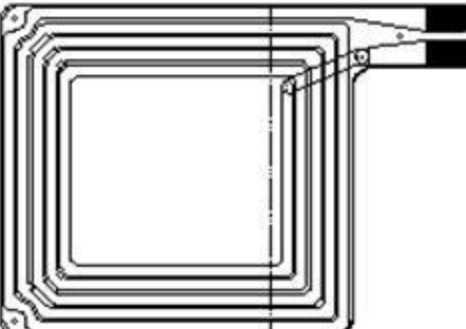
CREDITS P/N :

Editor:

Page 12 of 7

Test	WCDMA_II TRP			Test	CDMA_II T	Test	WCDMA_V TRP			Test	CDMA_V TI
Result	9262	9400	9538	Result	9800	Result	4132	4185	4233	Result	4410
Frequency	1852.4	1880	1907.599	Frequency	1960	Frequency	826.4	837	846.599	Frequency	882
TRP(dBm)	17.38	18.42	18.06	TIS(dBm)	-105.85	TRP(dBm)	18.07	18.11	17.12	TIS(dBm)	-105.44
NHPRP(dBr)	17.38	18.42	18.06	NHPIS(dBr)	-105.85	NHPRP(dBr)	18.07	18.11	17.12	NHPIS(dBr)	-105.44
MAX(dBm)	22.28	22.59	22.81	MAX(dBm)	-111.77	MAX(dBm)	0	0	0	MAX(dBm)	0
EIRP peak	22.28	22.59	22.81	EIS peak	-111.77	EIRP peak	0	0	0	EIS peak	0
Min(dBm)	2.22	2.59	2.6	Min(dBm)	-86.56	Min(dBm)	0	0	0	Min(dBm)	0
Test	GSM850 TRP			Test	GSM850 TI	Test	PCS TRP			Test	PCS TIS
Result	128	190	251	Result	190	Result	512	810	661	Result	661
Frequency	824.2	836.599	848.799	Frequency	881.599	Frequency	1850.199	1909.8	1880	Frequency	1960
TRP(dBm)	28.66	28.7	28.71	TIS(dBm)	-106.82	TRP(dBm)	25.4	25.4	25.83	TIS(dBm)	-102.34
NHPRP(dBr)	28.66	28.7	28.71	NHPIS(dBr)	-106.82	NHPRP(dBr)	25.4	25.4	25.83	NHPIS(dBr)	-102.34
MAX(dBm)	31.37	31.49	31.58	RSSI Ave	47.82	MAX(dBm)	29.77	29.34	29.77	RSSI Ave	45.24
EIRP peak	31.37	31.49	31.58	MaxPosRSS	51.25	EIRP peak	29.77	29.34	29.77	MaxPosRSS	48.63
Min(dBm)	12.64	16.23	17.25	MaxPosSer	-110.25	Min(dBm)	20.42	20.34	20.2	MaxPosSer	-105.73

版本	说明	审核	日期	批准	日期
T:A					
T:B					



- 黄色部分为禁止区

— 虚线部分为通孔

— 虚线部分为内部定位孔

— 虚线部分为内部定位孔

— 虚线部分为内部定位孔

— 虚线部分为内部定位孔

— 虚线部分为内部定位孔
- 虚线部分为通孔

— 虚线部分为内部定位孔

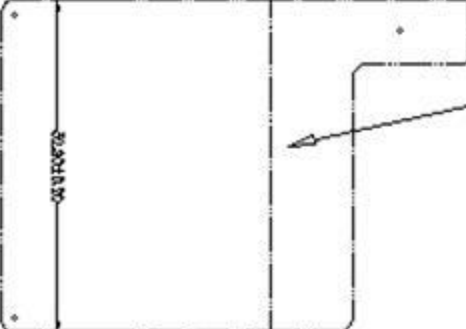
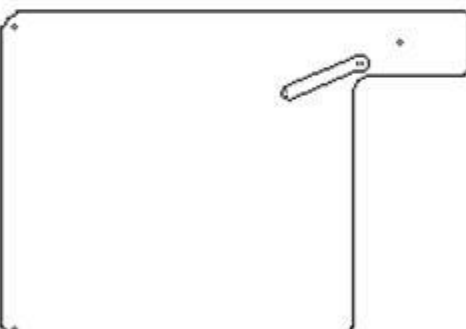
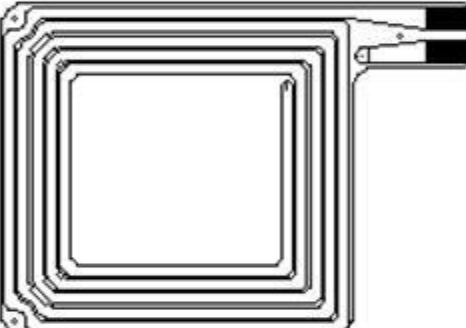
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— 虚线部分为内部定位孔



组合图纸

科瑞迪斯科技有限公司														
公差		5 UND	± 0. 04	制图		日期:	2025. 6. 19	单位	mm	版本	AL	比例	1: 1	物料编号
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MATTER		RoHS (PPM)		审核	批准	日期:		日期:		日期:		日期:		日期:
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Pb	≤1000	35-50	± 0. 08	日期:		日期:		日期:		日期:		日期:		日期:
Hg	≤1000	50-100	± 0. 09	日期:		日期:		日期:		日期:		日期:		日期:
Cr6+	≤1000	100 OVE	± 0. 10	日期:		日期:		日期:		日期:		日期:		日期:
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PBDE	≤1000			日期:		日期:		日期:		日期:		日期:		日期:
环保要求:														
A4														