



深圳市凯普深通讯科技有限公司
Shenzhen cape deep communication technology co., LTD

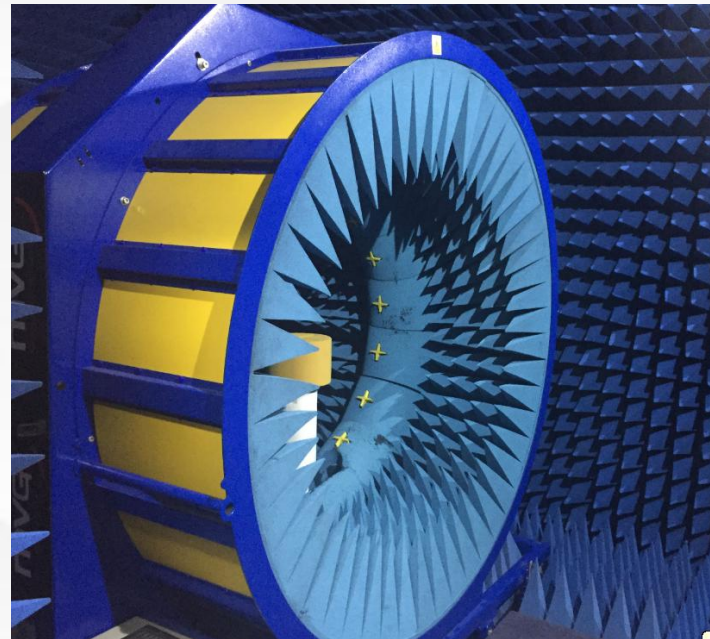
Antenna Commissioning Report

test report

Client: Tugao
Project Name: HT12
RF Engineer: Yao Zehui
Date: 2026.7.8



Laboratory Test Environment and Equipment



Test Items	Test Equipment
S11、S12、VSWR、LOSS	Network Analyzer E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16 Anechoic Chamber, GP7*4*3 Anechoic Chamber、E5071B
TRP、TIS	Satimo SG16 Anechoic Chamber, GP7*4*3 Anechoic Chamber、8960、CMW500 、MT8820C、E4438C、

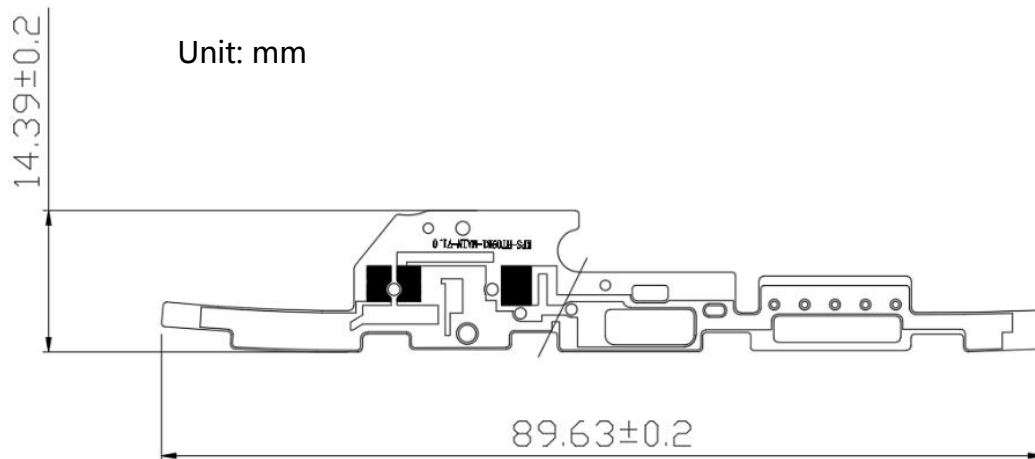


Gain

Antenna Gain (GAIN)

	GAIN(dBi)		GAIN(dBi)
B1	-1.89		
B2	-2.33	B38	-2.18
B3	-2.56	B39	-2.04
B4	-2.47	B40	-2.23
B5	-3.63	B41	-2.18
B7	-2.18	GPS	-1.35
B8	-3.89	WIFI 2.4G	-0.33
B20	-3.71	BT	-0.33
B28	-3.83	WIFI 5.2G	-0.38
B66	-2.47		
GSM850	-3.63	W-1	-1.89
GSM900	-3.89	W-2	-2.33
DCS1800	-2.56	W-4	-2.47
PCS1900	-2.33	W-5	-3.63
		W-8	-3.89

Antenna Dimensions



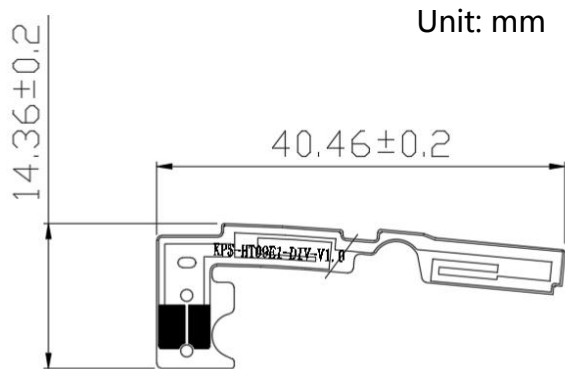
Silk screen

KPS-HT09E1-MAIN-V1.0



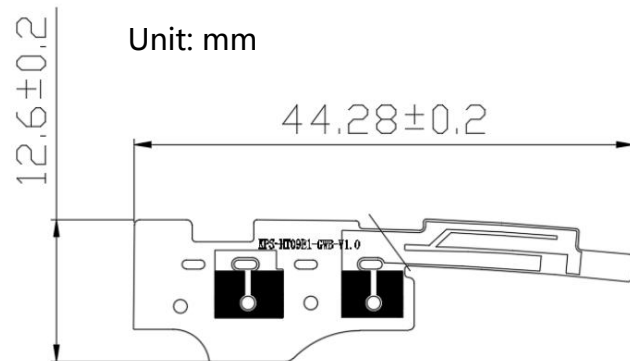
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Antenna Dimensions



Silk screen

KPS-HT09E1-DIV-V1.0



Silk screen

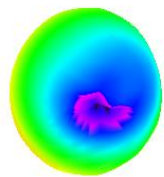
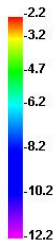
KPS-HT09E1-GWB-V1.0



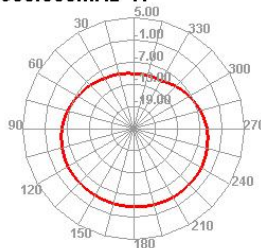
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Antenna Radiation Pattern

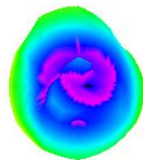
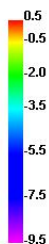
900.000MHz



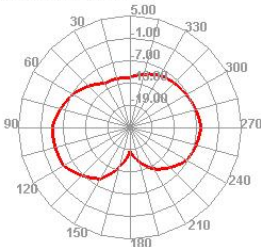
900.000MHz H



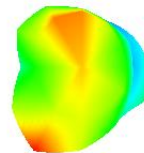
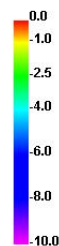
1900.000MHz



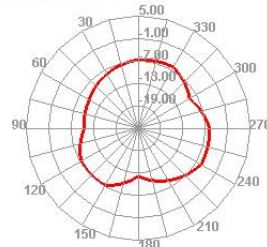
1900.000MHz H



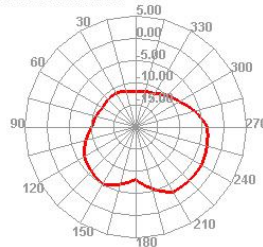
2500.000MHz



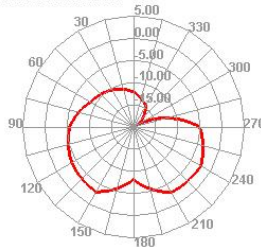
2500.000MHz H



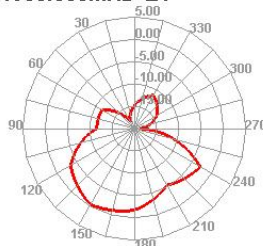
900.000MHz E1



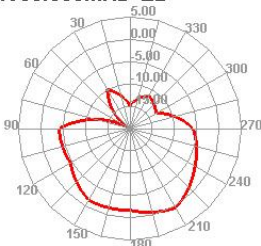
900.000MHz E2



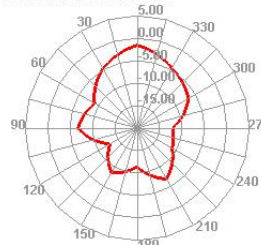
1900.000MHz E1



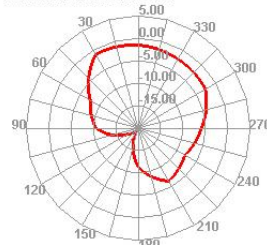
1900.000MHz E2



2500.000MHz E1



2500.000MHz E2

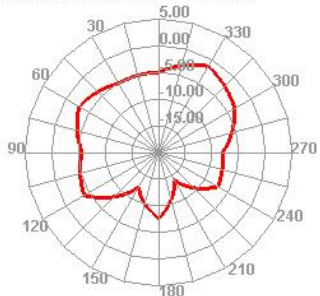




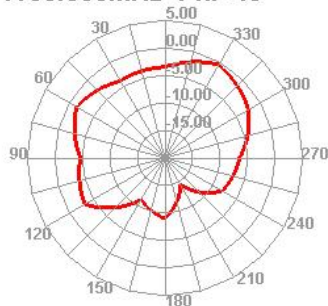
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Antenna Radiation Pattern

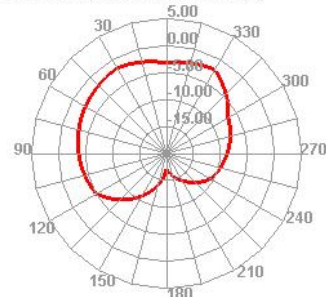
1550.000MHz Phi=45



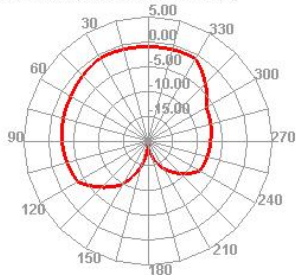
1600.000MHz Phi=45



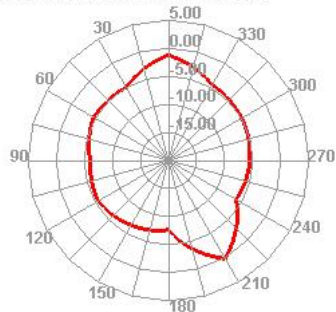
2400.000MHz Phi=45



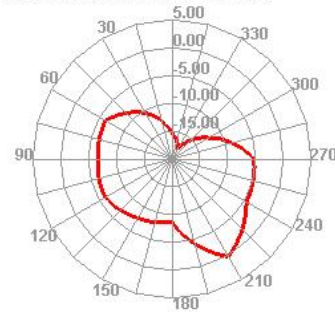
2500.000MHz Phi=45



5200.000MHz Phi=45



5900.000MHz Phi=45





Contact Information

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THE END

**Thank you for your
valuable comments!**