



Shenzhen Kaipushen Communication Technology Co., Ltd.
Shenzhen cape deep communication technology co.,LTD

Kep Depth

Prototype Test Report

test report

Customer: Dingville

Project name:A2801P

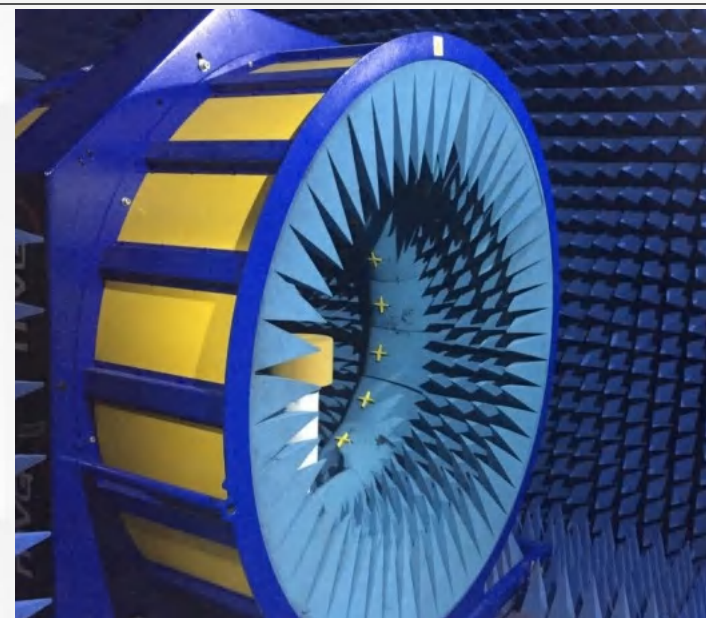
frequency: Pang Gong

Date: 2025.09.20

edition :

(Laboratory test environment and equipment

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Test item	Testing facility
S11、S12、VSWR、LOSS	Network Analyzer E5071B and E5062A
Efficiency、Gain3D Radiation Pattern	Satimo SG16 darkroom, GP7*4*3 darkroom, E5071B
TRP、TIS	Satimo SG16 darkroom, GP7*4*3 darkroom, 8960, CMW500, MT8820C, E4438C

Kepu Shentong Xinkexi Co., Ltd., Shenzhen

Shenzhen cape deep communication technology co.,LTD

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Introduction TO THE PROJECT TESTING

Machine type	Cellphone			
		Band information	Antenna form	Match changes
Types of antennas and frequency bands Breath	Main antenna	GSM850/900/1800/1900 WCDMA1/2/4/5/8 LTE- FDD-B1/3/7/8/28 TDD-B 38	PIFA	
	Slave antenna	WIFI, BT, GPS (3-in-1)	PIFA	
	Diversity antenna	Medium-high frequency	PIFA	
Antenna material	Main antenna, auxiliary antenna, and diversity FPC Shenzhen			Shanghai Kaipu Shentong



Antenna Test Data

Kai Pu Frequency band	Deep Channel	Turn off screen		Bright Screen		Frequency band	Channel	Turn off screen		Bright Screen	
		TRP	TIS	TRP	TIS			TRP	TIS	TRP	TIS
GSM 850	Low	28.3				WCDMA 1	Low	16.5			
	Mid	28.0					Mid	16.6			
	Hig	27.6	-103.1	27.7	-102.1		Hig	16.7	-103.1	16.8	-103.0
EGSM 900	Low	28.2				WCDMA 2	Low	15.6			
	Mid	28.3					Mid	15.8			
	Hig	28.5	-104.3	28.3	-103.9		Hig	15.9	-102.9	16.0	-103.1
DCS 1800	Low	24.3				WCDMA 4	Low	15.7			
	Mid	24.0					Mid	16.0			
	Hig	23.6	-103.0	23.5	-102.8		Hig	16.3	-102.8	16.2	-102.8
PCS 1900	Low	23.7				WCDMA 5	Low	18.9			
	Mid	24.2					Mid	18.6			
	Hig	25.1	-103.2	25.0	-103.3		Hig	18.3	-104.7	18.4	-104.5
						WCDMA 8	Low	18.8			
							Mid	18.7			
							Hig	This 18.6 City -105.2 Book	Open Ton 8	Message 18.7 supp- ort	-105.1



Antenna Test Data

Frequency band	Channel	Turn off screen		Bright Screen		Frequency band	Channel	Turn off screen		Bright Screen	
		TRP	TIS	TRP	TIS			TRP	TIS	TRP	TIS
LTE B1	Low	15.9				LTE B5	Low	18.4			
	Mid	15.8					Mid	18.5			
	Hig	15.7	-91.3	15.8	-90.5		Hig	18.6	-92.2	18.4	-89.8
LTE B2	Low	15.7				LTE B7	Low	18.8			
	Mid	16.0					Mid	18.5			
	Hig	16.2	-91.5	16.1	-91.5		Hig	18.3	-88.1	18.5	-87.6
LTE B3	Low	16.2				LTE B8	Low	18.9			
	Mid	16.0					Mid	18.6			
	Hig	16.1	-90.0	16.0	-89.5		Hig	18.4	-92.9	18.7	-92.5
LTE B4	Low	16.2				LTE B12	Low	18.1			
	Mid	16.0					Mid	18.2			
	Hig	15.8	-90.4	15.9	-89.1		Hig	18.4	-91.3	18.3	-90.6



Antenna Test Data

Frequency band	Channel	Turn off screen		Bright Screen		Frequency band	Channel	Turn off screen		Bright Screen	
		TRP	TIS	TRP	TIS			TRP	TIS	TRP	TIS
						LTE B21	Low	16.9			
							Mid	16.8			
							Hig	16.7	-87.2	16.6	-87.4
LTE B17	Low	18.4				LTE B26	Low	18.3			
	Mid	18.6					Mid	18.4			
	Hig	18.5	-89.5	18.3	-88.9		Hig	18.6	-92.3	18.7	-91.6
LTE B19	Low	18.3				LTE B28	Low	18.5			
	Mid	18.5					Mid	18.3			
	Hig	18.8	-92.8	18.6	-92.5		Hig	18.1	-91.6	18.2	-91.2
LTE B20	Low	18.2				LTE B66	Low	17.1			
	Mid	18.4					Mid	17.0			
	Hig	18.6	-93.4	18.9	-93.0		Hig	16.8	-90.8	17.0	-91.0



Antenna Test Data

Kep Depth

Frequency band	Channel	Turn off screen		Bright Screen		Frequency band	Channel	Turn off screen		Bright Screen	
		TRP	TIS	TRP	TIS			TRP	TIS	TRP	TIS
LTE B71	Low	17.9				LTE B40	Low	18.0			
	Mid	17.2					Mid	18.2			
	Hig	17.1	-91.3	17.1	-91.1		Hig	18.3	-92.7	18.3	-92.1
LTE B38	Low	18.5				LTE B41	Low	18.6			
	Mid	18.3					Mid	18.0			
	Hig	18.1	-90.5	18.2	-90.5		Hig	17.6	-91.4	17.2	-90.5



Data FROM SOURCE OF WIFI TESTING

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WIFI2.4

Channel	TRP (dBm)	TIS (dBm)
1	10.5	-78.9
6	11.8	-81.0
12	10.1	-79.2



Antenna Gain

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	GSM 850	EGSM 900	DCS 1800	PCS 1900	
Peak Gai (dBi)	-3.35	-3.65	-2.27	-2.19	
	WCDMA1	WCDMA2	WCDMA4	WCDMA5	WCDMA8
Peak Gai (dBi)	-2.38	-2.11	-2.23	-3.35	-3.65

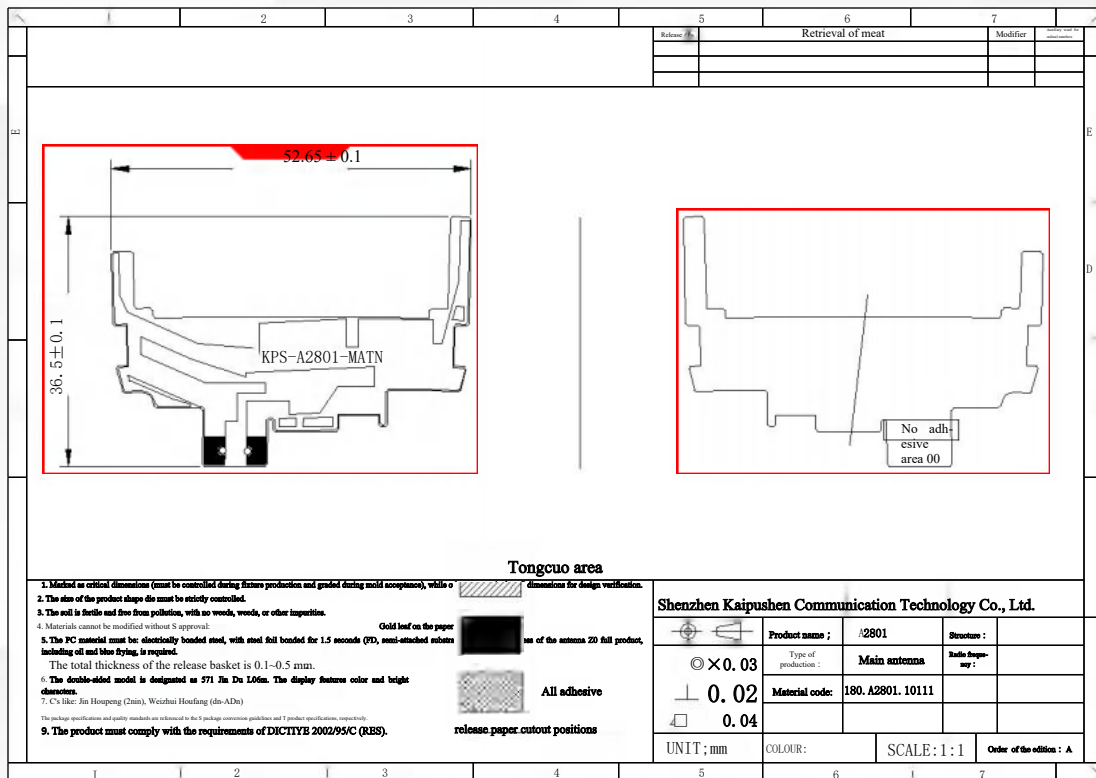


Antenna Gain

Kep depth

	LTE-B1	LTE-B2	LTE-B3	LTE-B4	LTE-B5	LTE-B7	LTE-B8	LTE-B12
Peak Gai (dBi)	-2.38	-2.11	-2.27	-2.23	-3.35	-2.34	-3.65	-3.25
	LTE-B17	LTE-B19	LTE-B20	LTE-B21	LTE-B26	LTE-B28	LTE-B66	LTE-B71
Peak Gai (dBi)	-2.26	-3.17	-3.11	-3.38	-2.87	-3.05	-2.27	-3.75
	LTE-B38	LTE-B40	LTE-B41			GPS	BT	WIFI
Peak Gai (dBi)	-2.43	-2.35	-2.34			0.01	0.65	0.65

Antenna Drawing





Antenna Drawing

	1	2	3	4	5	6	7	8																			
						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Edition</td> <td style="width: 40%;">Hua Gai Nei Ke</td> <td style="width: 20%;">Modifier</td> <td style="width: 20%;">Date</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		Edition	Hua Gai Nei Ke	Modifier	Date																
Edition	Hua Gai Nei Ke	Modifier	Date																								
 																											
1. Marked as critical dimensions (for tooling optimization, mandatory 5D mold acceptance testing, etc.), while others as (C). 2. The Gai nei 2 product shape size should be strictly controlled. 3. No recommended surface finish, with minor scratches and burrs. 4 Materials cannot be reviewed or modified without prior approval from KS Compe 5. P material cost requirements: electrolysis, absolute thickness 0.5mm; (1), semi-dipping material, total temperature of finished products 6. No cost increase of the plate mirror (0.1-0.15mm) 7. The original villa model number is WPLLE (0.065mm thick reading), with surface specifications: [text incomplete] Response: [text incomplete] 7.PC standard thickness difference: 24x, mirror size: 60-240mm. 8. The packaging specifications and quality standards for Auntie Bao's team are respectively based on the S Packaging Specification and FTS Quality Standard. 9. The product must comply with the requirements of DEDITE 2002-95C (3 vessels).						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; text-align: center;">  </td> <td style="width: 80%;">sensors (marked)</td> </tr> <tr> <td style="text-align: center;">  </td> <td style="text-align: center;">surface iron</td> </tr> <tr> <td style="text-align: center;">  </td> <td style="text-align: center;">All the high-type</td> </tr> </table> paper division positions in the cavity				sensors (marked)		surface iron		All the high-type													
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	All the high-type																										
						Shenzhen Kaipushen Communication Technology Co., Ltd. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Centre</td> <td style="width: 20%;">Product Name:</td> <td style="width: 20%;">A2801</td> <td style="width: 20%;">Structure :</td> <td style="width: 20%;"></td> </tr> <tr> <td rowspan="2" style="text-align: center;"> ◎ Ø0.03 soil 0. 02 □ 0. 04 </td> <td>Type of production :</td> <td>Three-element antenna</td> <td>Radio frequency :</td> <td></td> </tr> <tr> <td>Product number</td> <td>180. 12801. 10121</td> <td></td> <td></td> </tr> <tr> <td colspan="2">UNIT : mm</td> <td colspan="2">COLOUR :</td> <td>SCALE : 1 : 1</td> </tr> </table>			Centre	Product Name:	A2801	Structure :		◎ Ø0.03 soil 0. 02 □ 0. 04	Type of production :	Three-element antenna	Radio frequency :		Product number	180. 12801. 10121			UNIT : mm		COLOUR :		SCALE : 1 : 1
Centre	Product Name:	A2801	Structure :																								
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UNIT : mm		COLOUR :		SCALE : 1 : 1																							
1	2	3	4	5	6	7	8	9																			



Antenna Drawing

	Edition	Revise content	Modifying date

Non-sticky zone

1. Mold key dimensions (for mold control and assembly testing during acceptance, etc., designated as D), while others serve as design reference dimensions, designated as C).
2. The cross-sectional dimensions of the product shape must be strictly controlled.
3. The surface should be free of oil, impurities, burns, etc.
4. Without formal confirmation from S Company, the material rate is not brittle and arbitrary policy c
5. IC material specifications: Monocrytic process, Ball thickness 4.5um, substrate aging alignment only, lead thickness of 75um; IC finished product including ink

The total thickness of the high-rise structure ranges from 1.1 to 0.1 meters.

... The double-sided mounting model is designated as: 9422 series, 4.0/3m, surface of quality: color test lead: display.

... C The yellow color should be fully visible; 2l, screen resolution: 0.6-240um

6. For cabling, the quality standards are based on the PS packaging test specifications and PS quality standards respectively.

7. The product is the drive for the DIBCHY202/94DC (DIB) driving system.

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◎ Ø0.03	Product name ;	A2801	Structure :
L_ 0.02	Type of production :	Diversity antenna	Basis: Design :
□ 7 0.04	Product part number:	180.A2801.10191	
UNIT : mm		COLOUR :	SCALE: 1:1 Version:



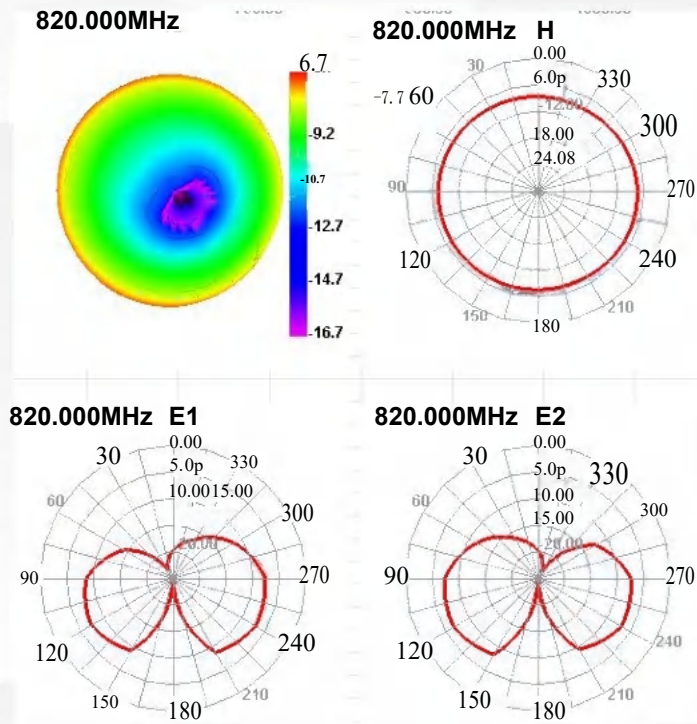
Antenna Location



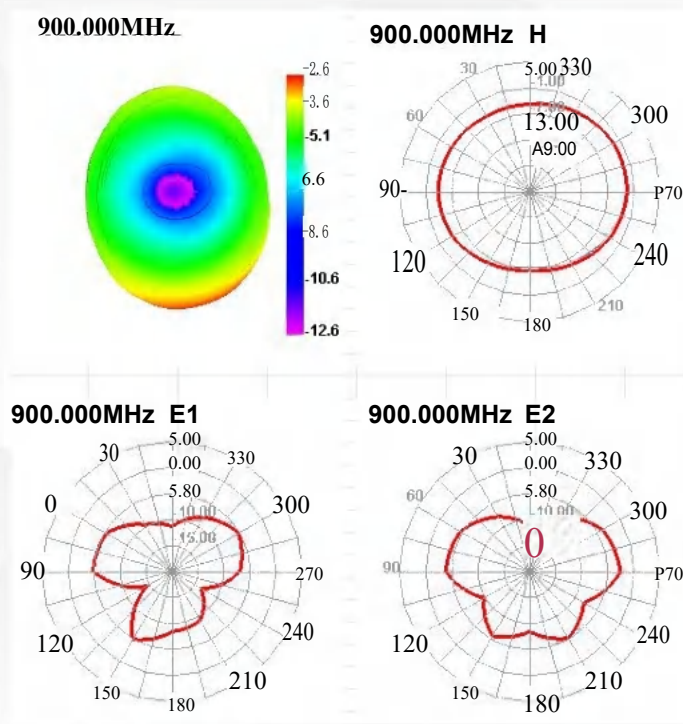


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Passive Antenna Apple Diagram



GSM850/W5/B5/B26



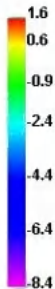
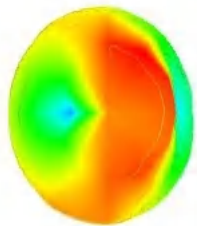
GSM900/W8/B8



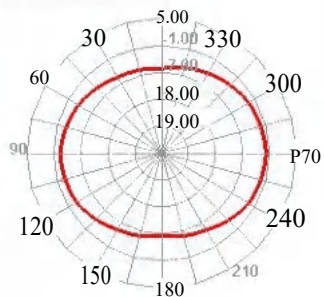
Passive Antenna Apple Diagram

Kep Depth

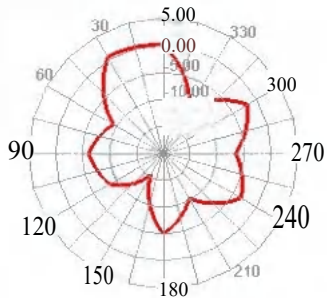
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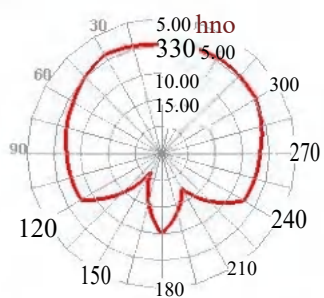
1710.000MHz H



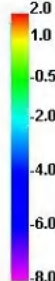
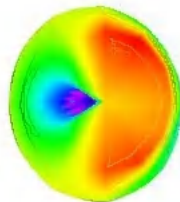
1710.000MHz E1



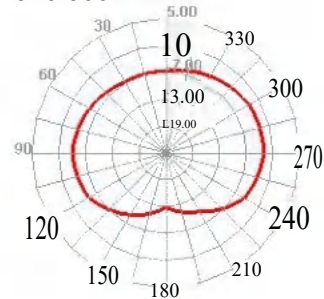
1710.000MHz E2



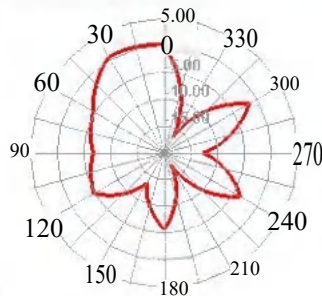
1920.000MHz



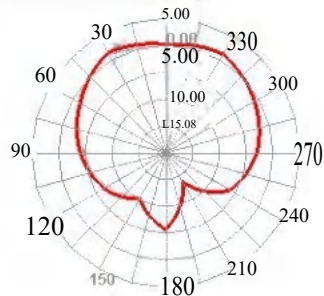
1920.000MHz H



1920.000MHz E1



1920.000MHz E2



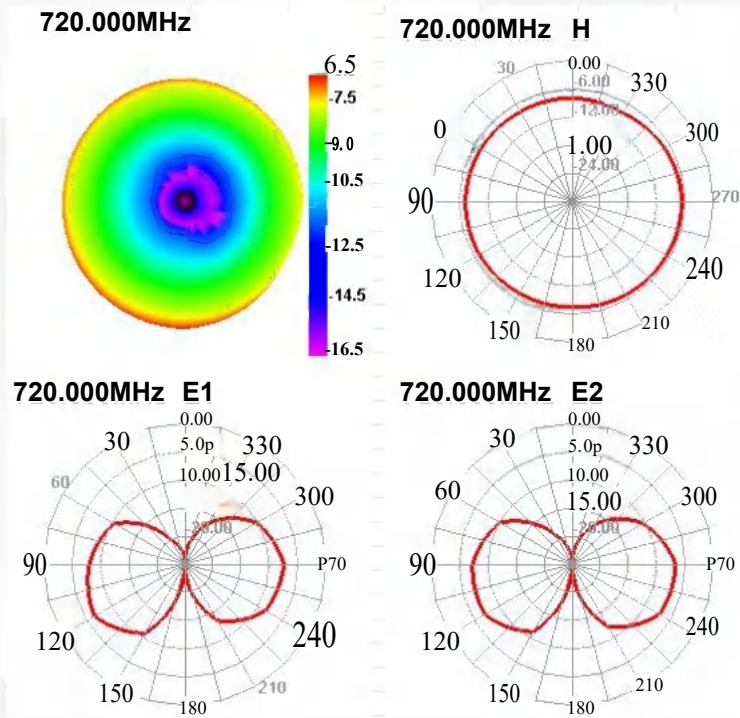
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1900/W2/B2

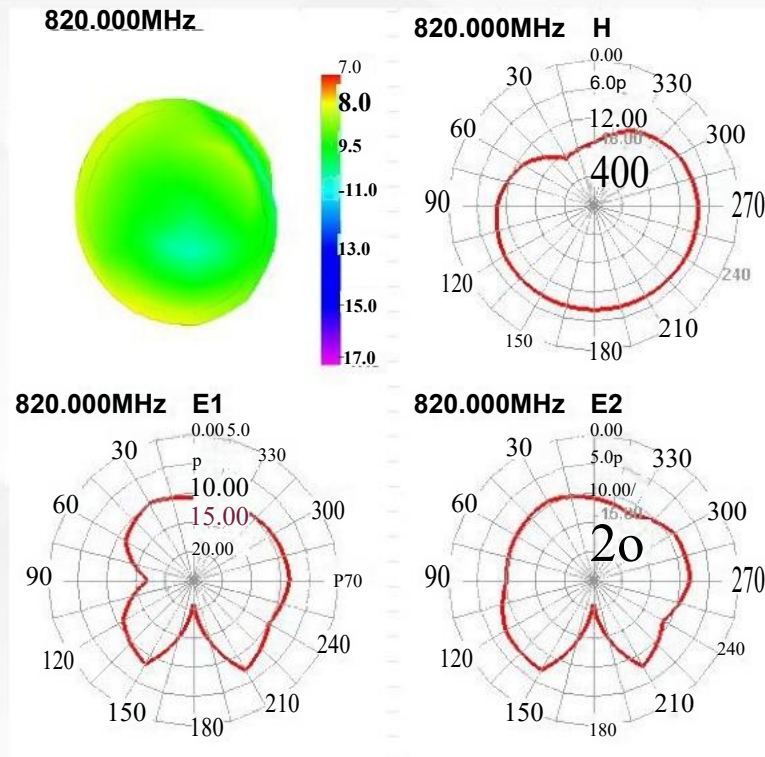


Kep Depth

Passive Antenna Apple Diagram



B12/17



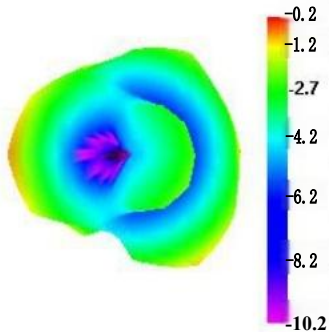
B20



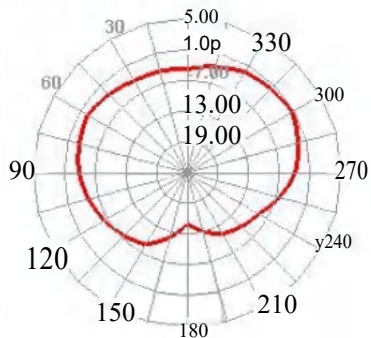
Kep Depth

Passive Antenna Apple Diagram

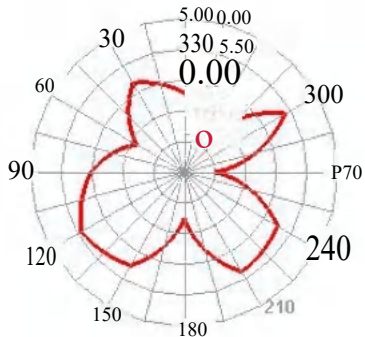
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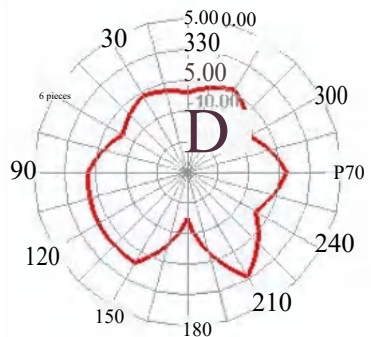
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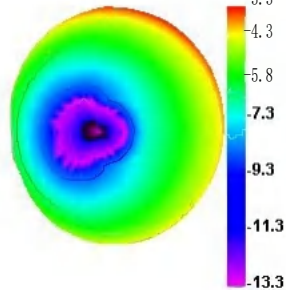
2500.000MHz E1



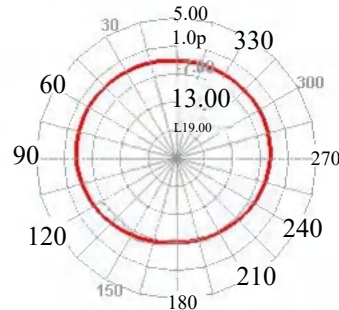
2500.000MHz E2



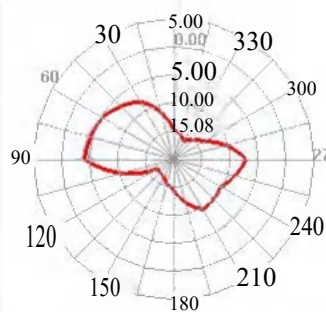
740.000MHz



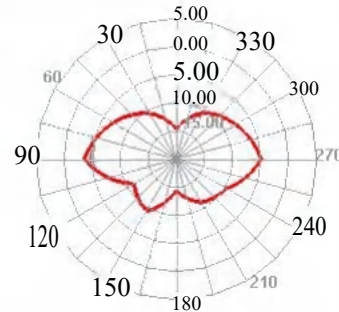
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740.000MHz E1



740.000MHz E2



B7/B41

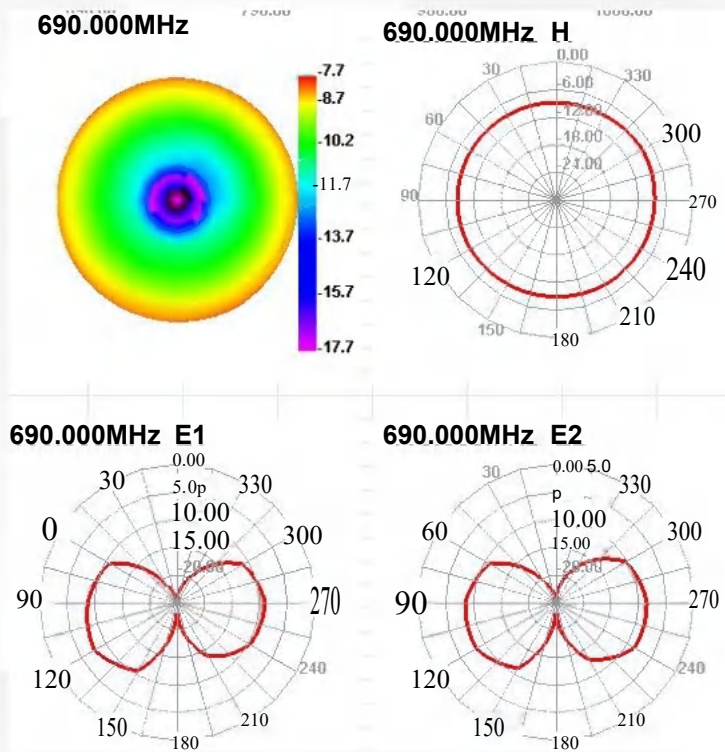
B28

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LTD

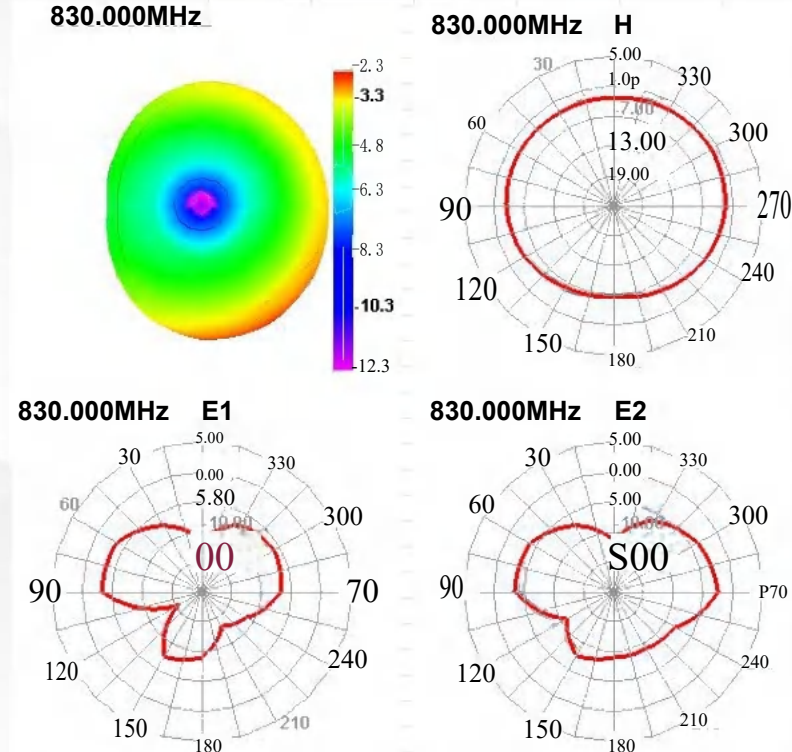


Kep Depth

Passive Antenna Apple Diagram



B71



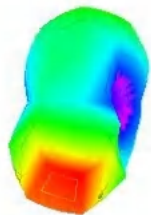
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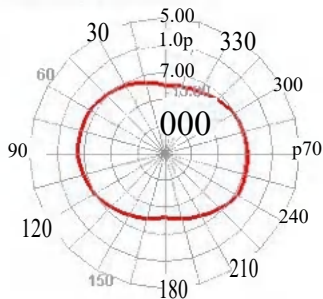
Kep Depth

Passive Antenna Apple Diagram

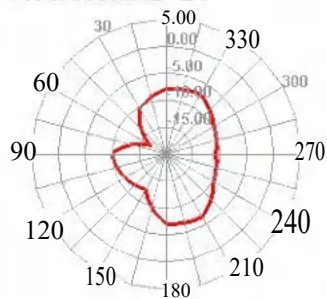
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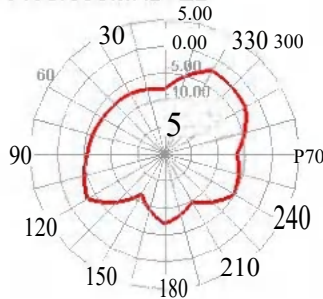
1490.000MHz H



1490.000MHz E1

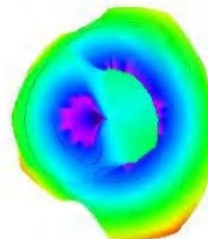


1490.000MHz E2

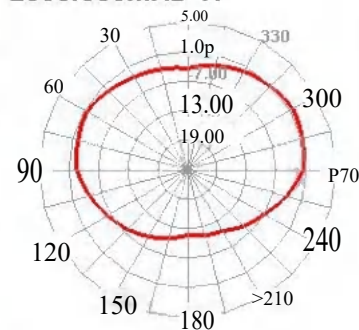


B21

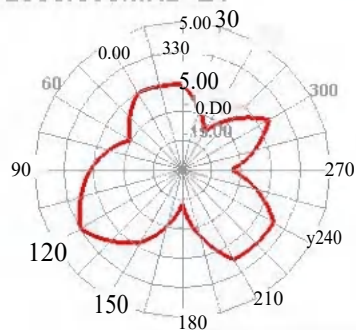
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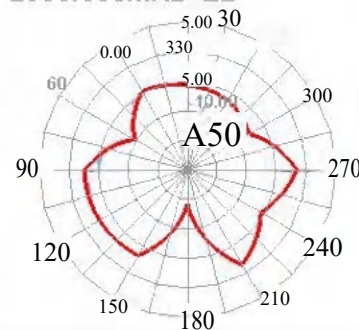
2580.000MHz H



2580.000MHz E1



2580.000MHz E2

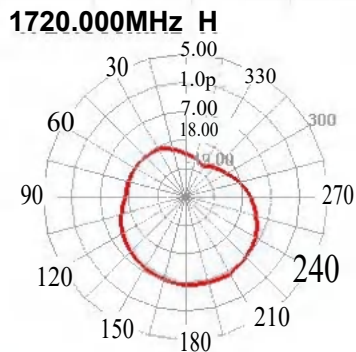
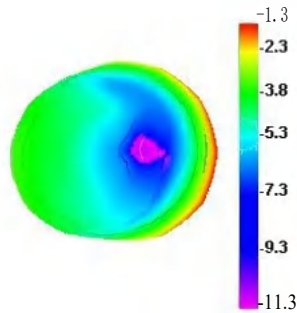


B38

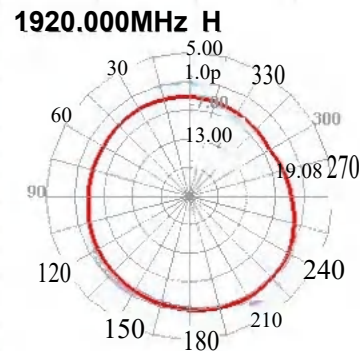
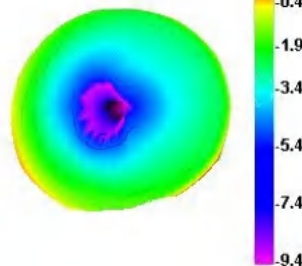


Kay, Pusen
1720.000MHz

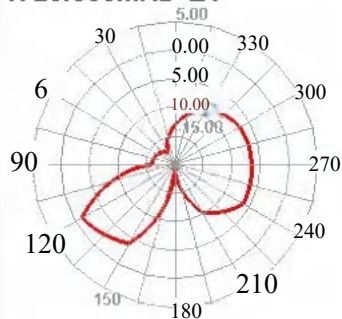
Passive Antenna Apple Diagram



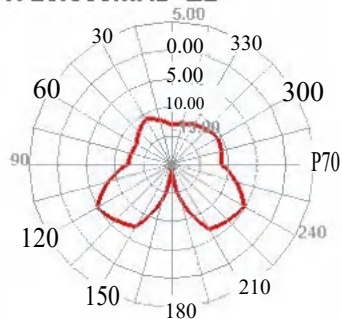
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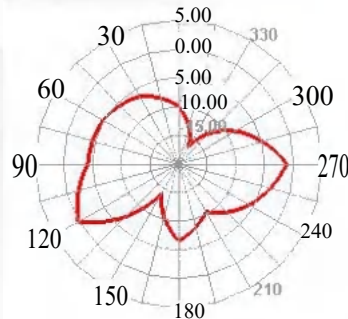
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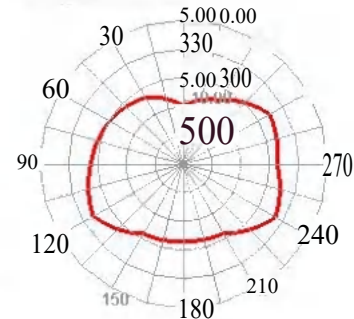
1720.000MHz E2



1920.000MHz E1



1920.000MHz E2

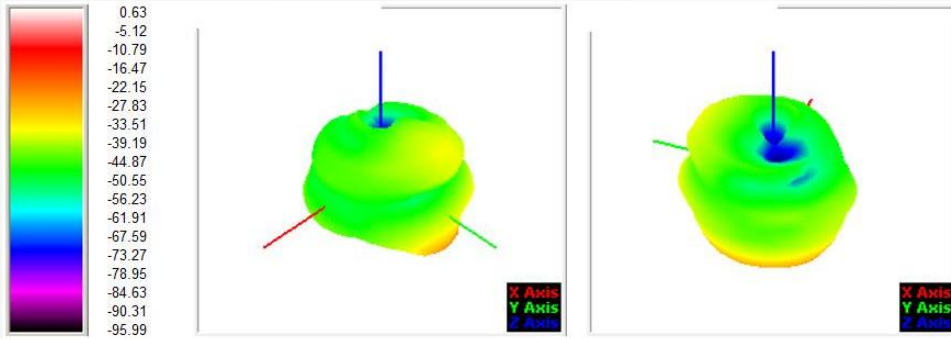


GSM1800/B3

W1/B1



BT/2.4G WiFi





Kep Depth

THE END

Thank You for Your Valuable Feedback!