

SPECIFICATION FOR APPROVAL

Product: Connect_PG1830CR-5.8G-2 black 1.13RF Cable+Ipx, L=105mm

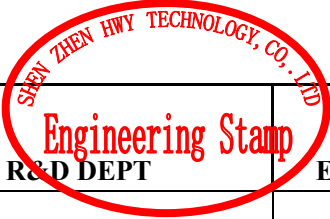
Model: HWY-58PCB-2B-1642

Part Number: 32030137

Written By : Xianjiang Yang

Issued Date: 2023.8.4

HWY:

 R&D DEPT	ENGINEER R&D DEPT	APPROVED
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Change resume

[illegible]

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The basic parameters:

A. Electrical Characteristics

Frequency	5.15 ~5.85GHz
VSWR	≤ 2.0
Efficiency	>50%
Impedance	50 Ohm
Polarization	Linear
Gain	See the test report for details
Radiation	omnidirectional

B. Mechanical parameters

Cable Type	1.13mm black
Connector Type	I-pex
Dimension	L=105mm
Antenna Colour	green

C. Operating/ Storage Temperature

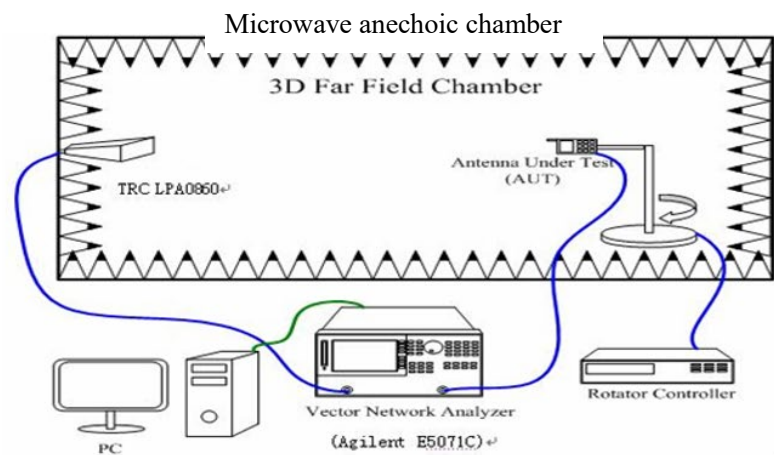
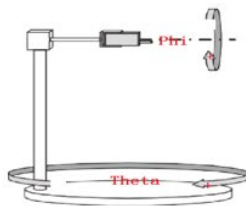
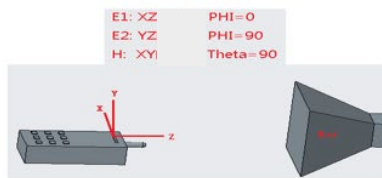
Operation Temperature	- 20 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

A		B		C		D		E		F		G					
								V		Date		Description		ECN NO.		NAME	
								A		2023. 8. 4		Original version				Yang	
								B		2024. 3. 4		Add silk-screen printing				Chen	
								C		2024. 9. 13		Change the tolerance				Yang	

Test Equipment & Conditions

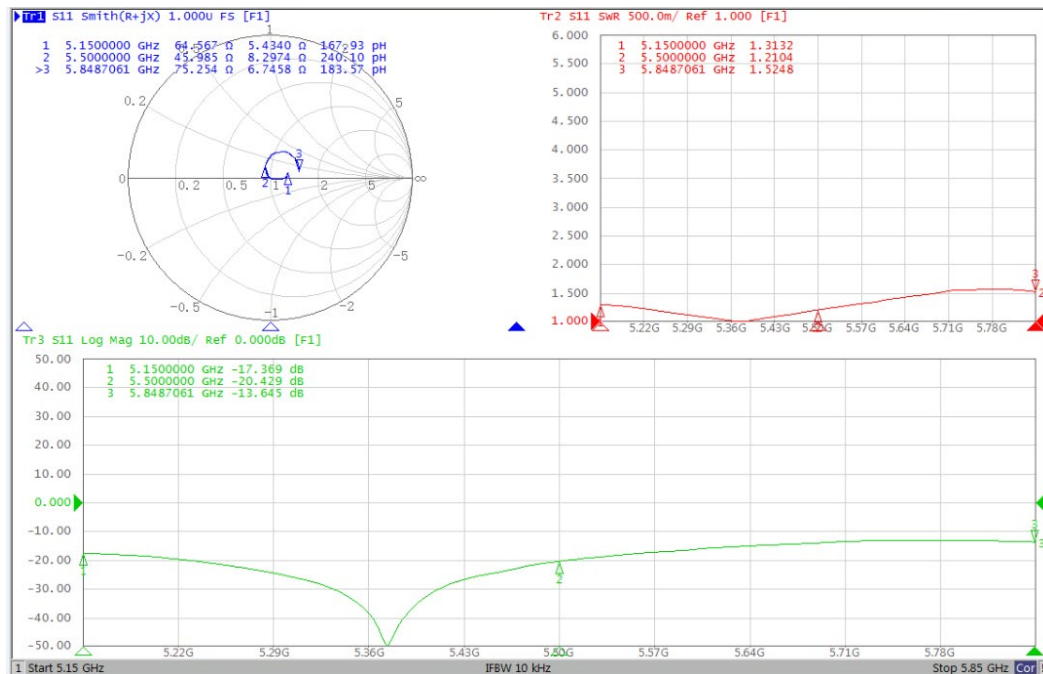
1. Network Analyzers :HP8753D
2. Communications Test Set:
3. 3D Chamber Test System:

network analyzer:HP8753D



Test Data:

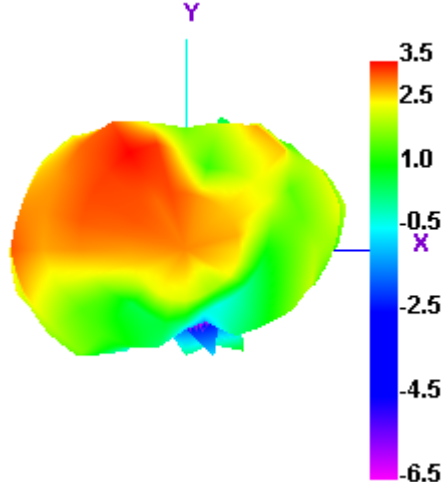
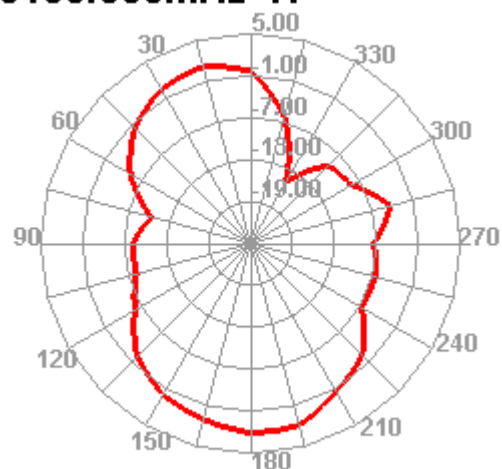
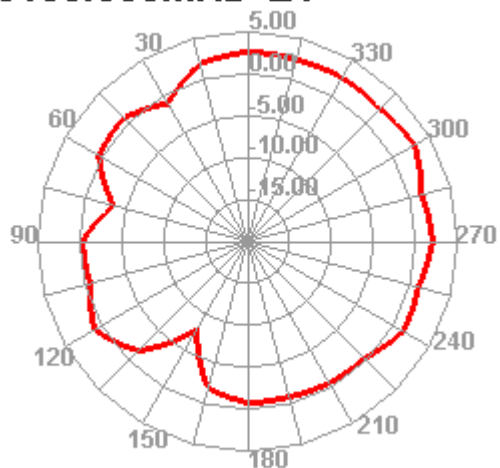
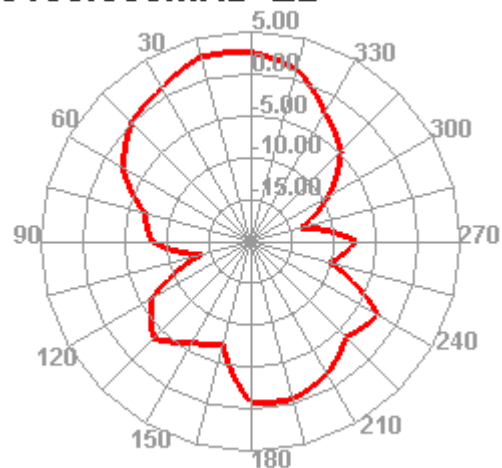
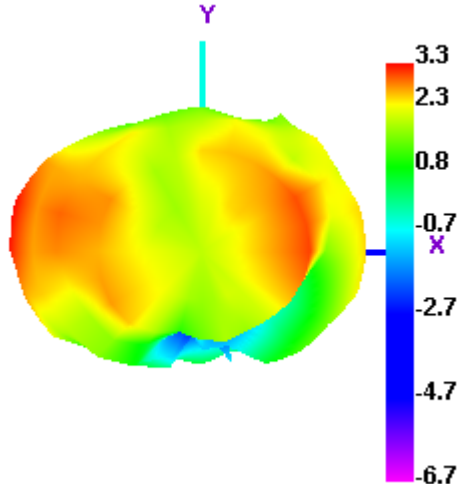
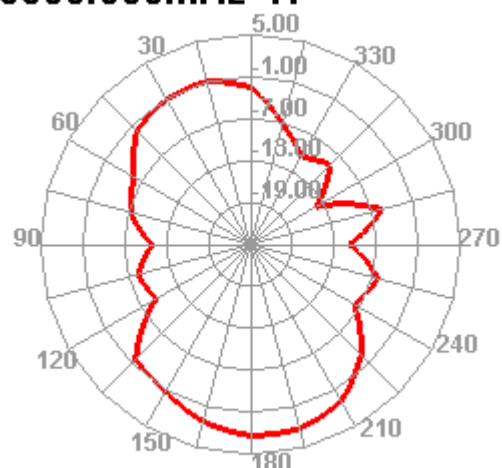
Reflection loss/ VSWR

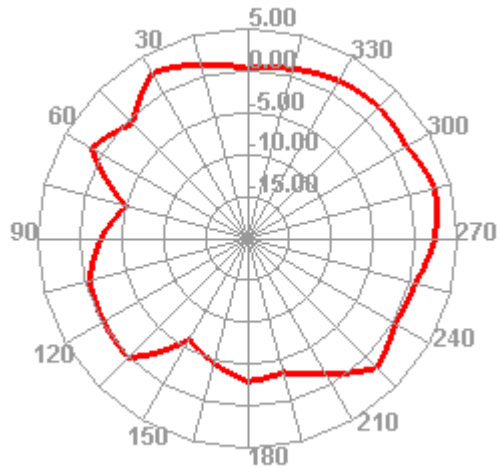
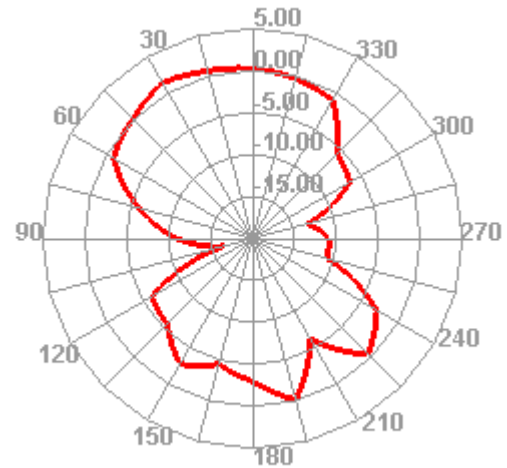
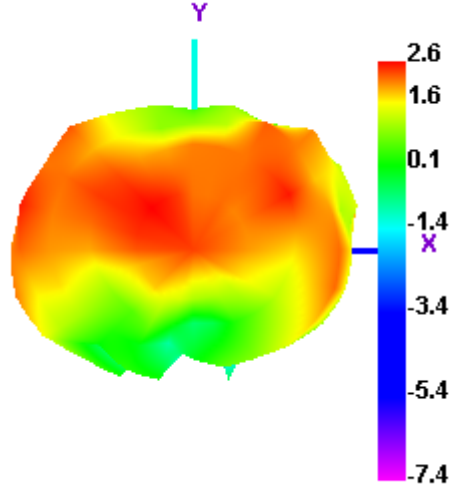
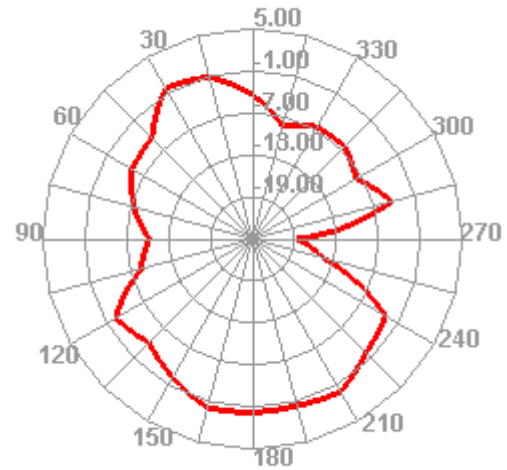
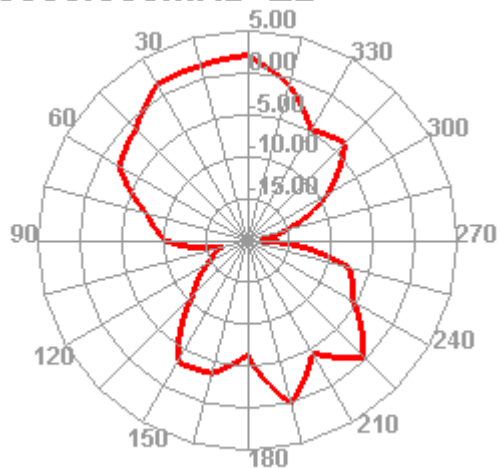
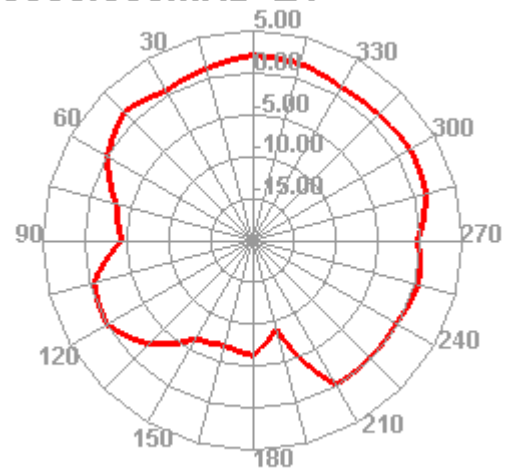


Efficiency&Gain:

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
5150	75.45	-1.22	3.53	1.38
5200	67.26	-1.72	2.85	0.7
5250	66.11	-1.8	2.6	0.45
5300	69.13	-1.6	3.35	1.2
5350	76.76	-1.15	3.94	1.79
5400	75.95	-1.19	3.63	1.48
5450	78.1	-1.07	3.43	1.28
5500	72.59	-1.39	3.32	1.17
5550	73.97	-1.31	3.39	1.24
5600	70.66	-1.51	2.85	0.7
5650	71.71	-1.44	2.95	0.8
5700	72.37	-1.4	3.13	0.98
5750	72.81	-1.38	3.16	1.01
5800	64.81	-1.88	2.83	0.68
5850	62.47	-2.04	2.62	0.47

Patten

5150.000MHz**5150.000MHz H****5150.000MHz E1****5150.000MHz E2****5500.000MHz****5500.000MHz H**

5500.000MHz E1**5500.000MHz E2****5850.000MHz****5850.000MHz H****5850.000MHz E2****5850.000MHz E1**

Antenna picture:

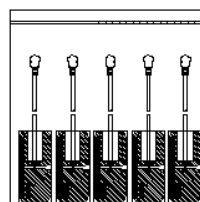


Product packaging specification

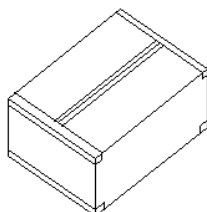
Product name:	External antenna
Description:	Except for customer special requirements
version :	V0



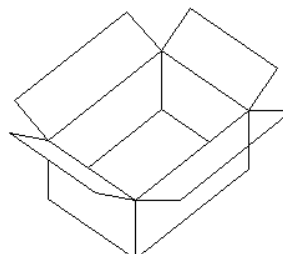
1. Antenna finished product



2. Antenna finished products are packed in PE bags. The quantity is subject to the actual situation.



4. Seal the box and affix our company's label or a label as specified by the customer on the outside.



3. Put the installed antenna into a cardboard box (subject to the actual quantity).