

規格承認書
Approval Sheet

客戶名稱

Customer Name: 易通展

產品名稱

Product Name: Front ANT

產品型號

Model Name: DCS-8620LH

泓博料號

Hong Bo P/N: 290-11308

客戶料號

Customer P/N:

版別

日期

Version: X5 Date: 2024.12.25

客戶承認簽印 CUSTOMER APPROVED BY	供應商承認簽印 VENDER APPROVED BY
Checked By:	Checked By: 李源泉
Approval By:	Approval By: 严加星

工厂/Factory:

1.越南,北宁省,桂武县,扶梁社,桂武三工业区CN17A-2地块

Lot No. CN17A-2 Que Vo 3 Industrial Park - Phu Luong Commune - Que Vo District - Bac Ninh Province-VietNam.

2.江蘇省常熟市高新技術產業園柳州路 8 號

No.8 Liuzhou Road, Yushan Industrial Park, Hi-tech Development Zone, Changshu, Jiangsu, China

Content

<u>Item</u>	<u>Page</u>
1. 規格表.....	3
2. 测试资料.....	4
3. 成品图.....	5
4. 产品图片.....	6
5. BOM LIST.....	6
6. UL.....	7-16

一、规格表

1. Electrical Properties

1.1	Frequency Range-----	2400-2500MHz
	-----	5150-5850MHz
1.2	Impedance-----	50 Ω
1.3	VSWR-----	1.92 :1
1.4	Return Loss-----	-10dB or Less
1.5	Peak Gain-----	2.05dBi@2G
	-----	5.06dBi@5G
1.6	Admitted Power-----	1W
1.7	C a b l e - -----	1.13 LLS
1.8	Admitted Type-----	Dipole type

2 Physical Properties

2.1	Antenna Body-----	PCB
2.2	Operating Temp-----	-10℃~+60℃
2.3	Storage Temp-----	-10℃~+70℃



HB Antenna Report for DCS-8620

- Measured Results -





Report Version Information

Version	Description	Date
V1.0	Original antenna measured Results	2024/03/19
V2.0	MB layout change. Antenna type change to Dipole	2024/05/31
V3.0	Move down side antenna	2024/07/29
V4.0	Add Heatsink	2024/08/13
V4.0	Change coaxial cable from 1.37LLS to 1.13LLS	2024/09/6



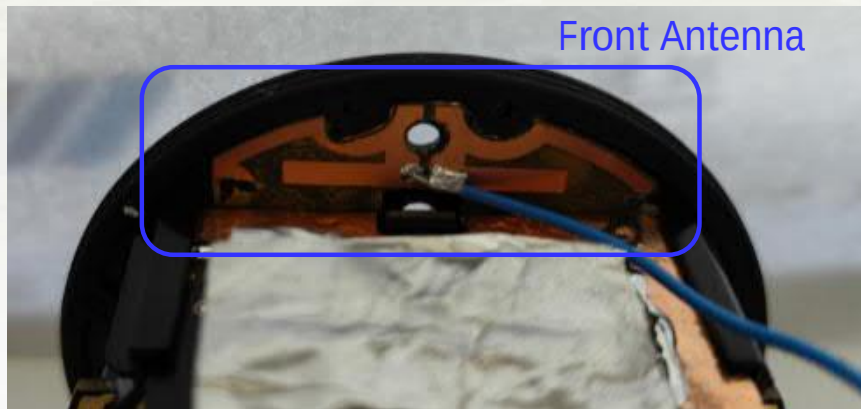


Outline

- Antenna Placements & Information
- Measured Results
 - Return Loss & S21
 - Efficiency & Peak Realized Gain

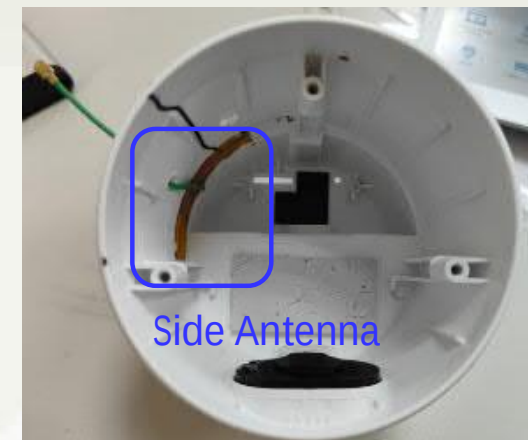


Antenna Placements & Information



Front Antenna

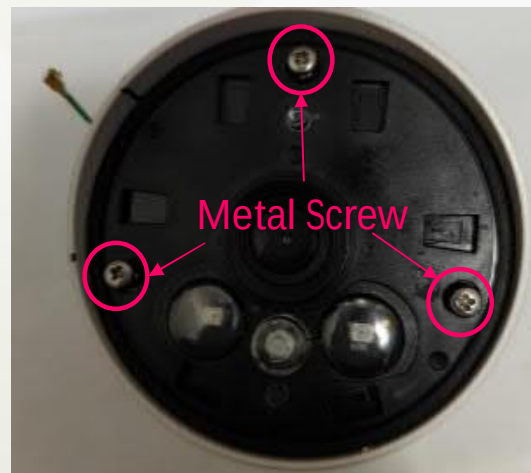
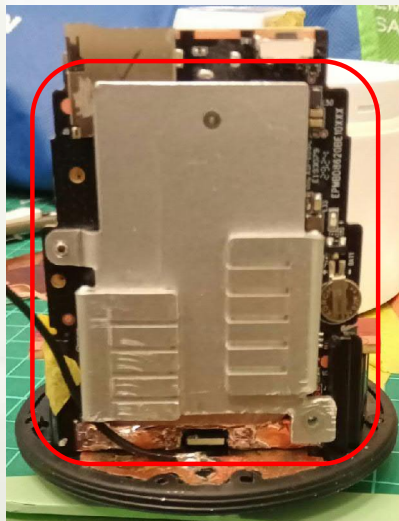
Antenna Cable : 1.13 LowLoss 81mm



Side Antenna

Antenna Cable : 1.13 LowLoss 90mm

Heatsink



Metal Screw





Measured Results

- Return Loss & S21
- Antenna Gain & Peak Realized Gain



2024/9/9

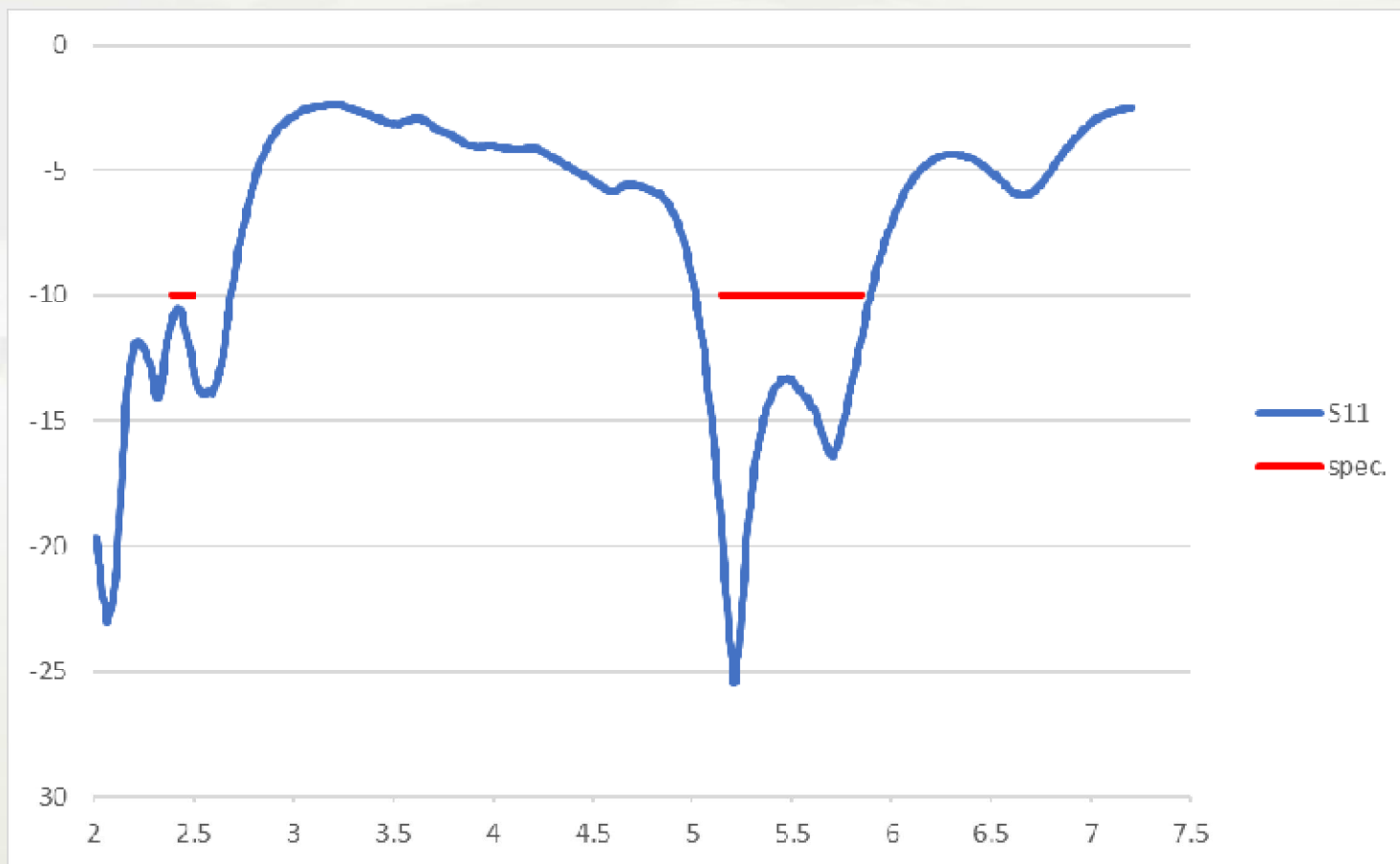
泓博通訊
HONGBO TELECOMMUNICATION



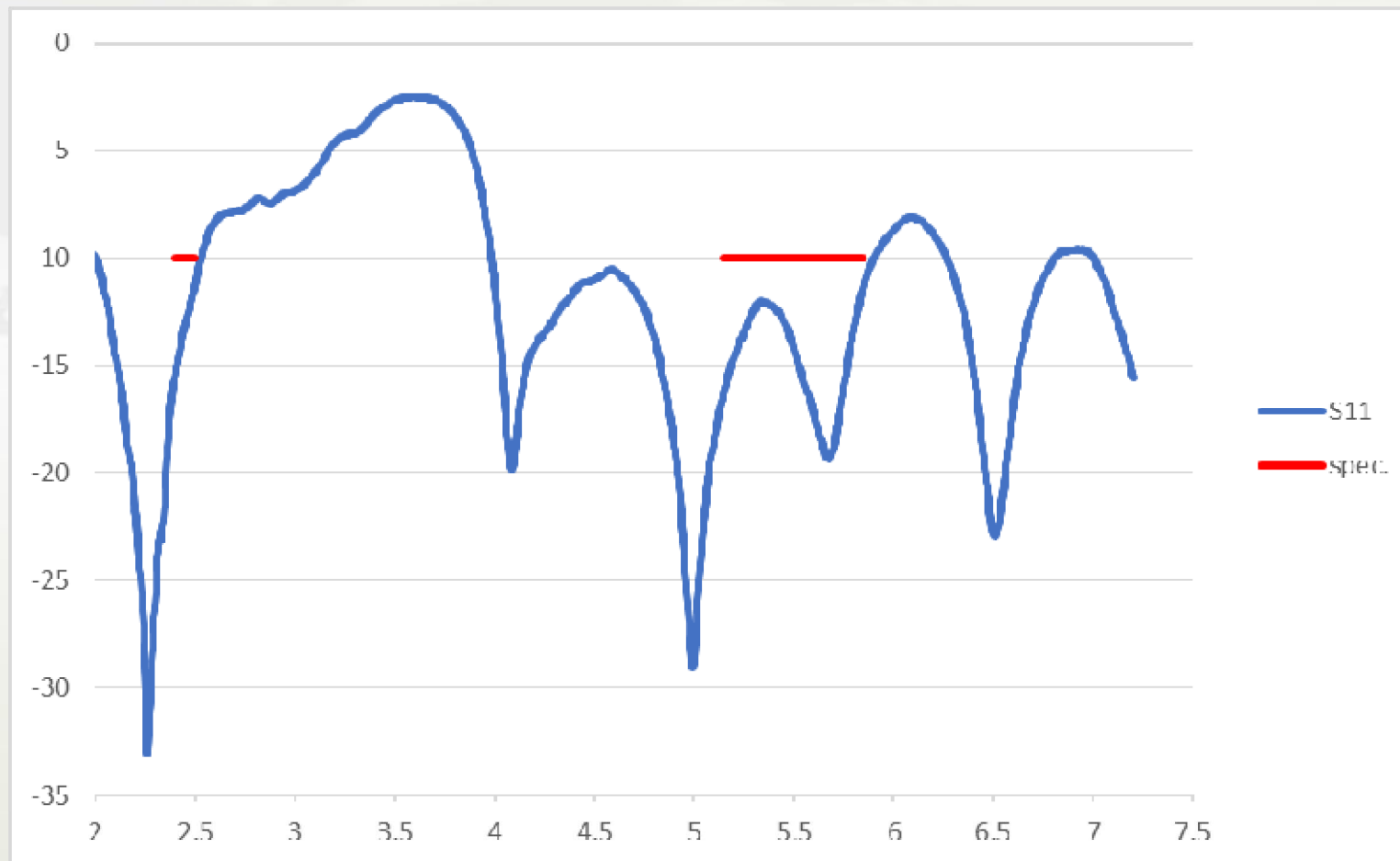
- Return Loss
- S21



S11 of Front Antenna



S11 of Side Antenna



S21 of Side Antenna





- Antenna Gain & Peak Realized Gain



Antenna Gain & Peak Realized Gain – Front Antenna

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	58.23	1.54
2412	59.38	1.91
2442	60.47	1.86
2484	62.61	1.87
2500	63.74	2.05
5150	68.69	4.86
5180	71.67	4.99
5320	71.05	4.63
5805	73.92	5.06
5850	70.11	4.79

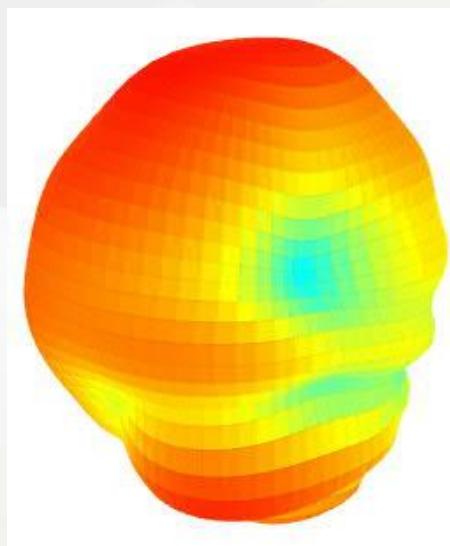
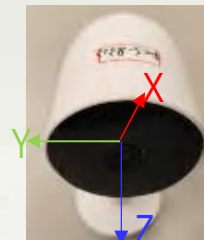




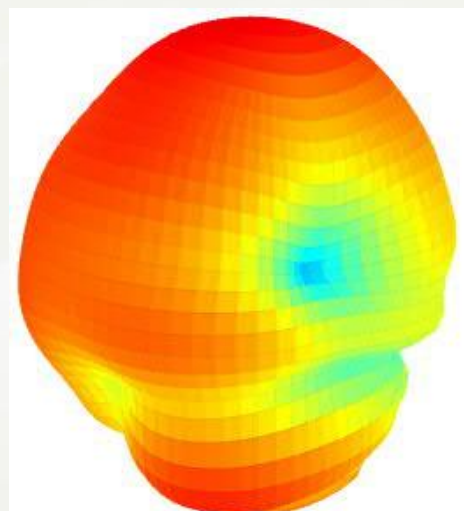
- 3D Radiation Pattern



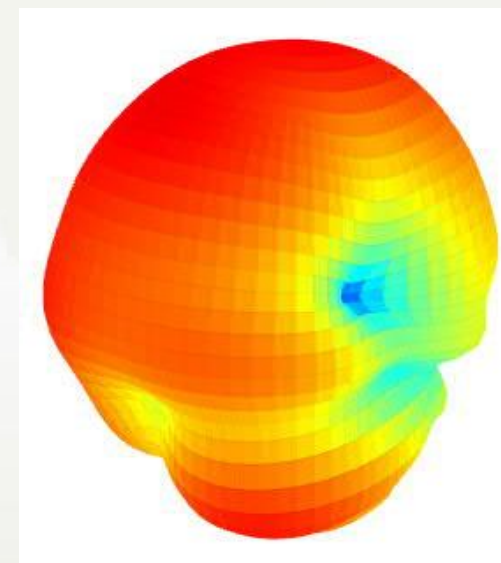
Radiation Pattern – Front Antenna 2.4G



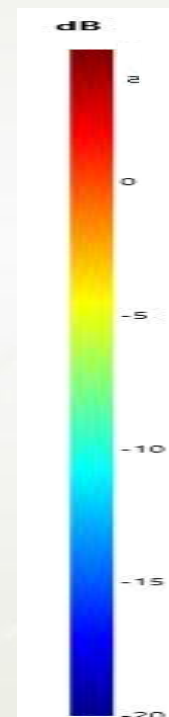
2412MHz



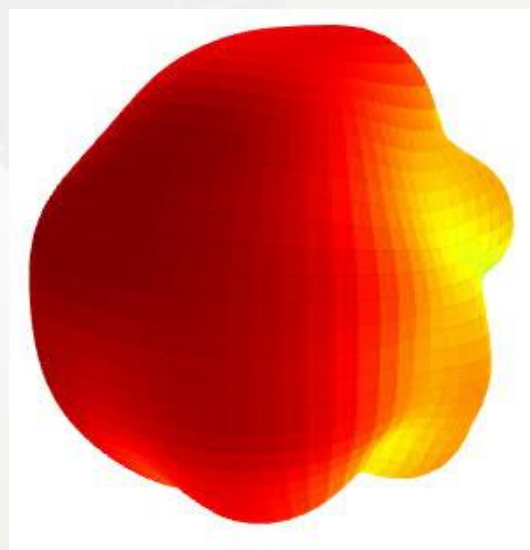
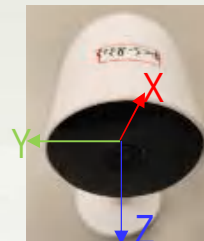
2442MHz



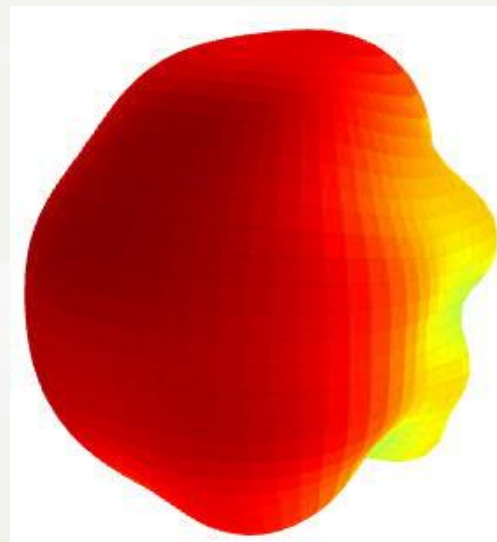
2484MHz



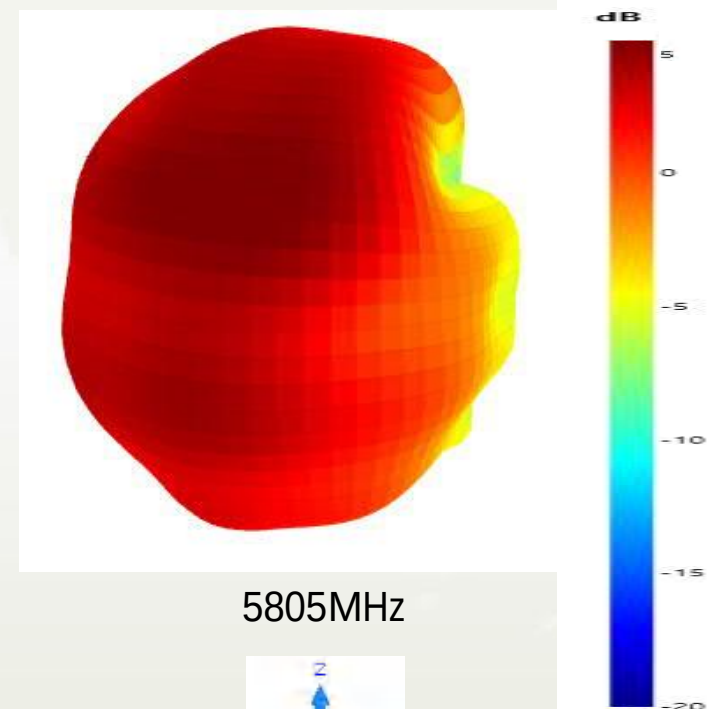
Radiation Pattern – Front Antenna 5G



5180MHz



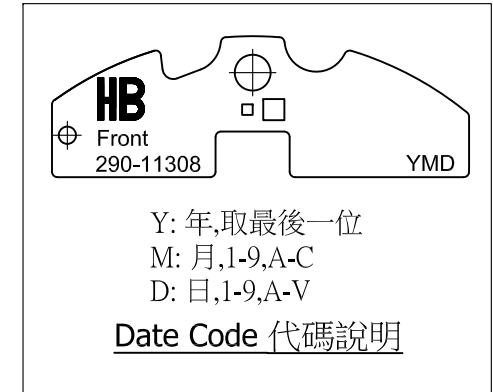
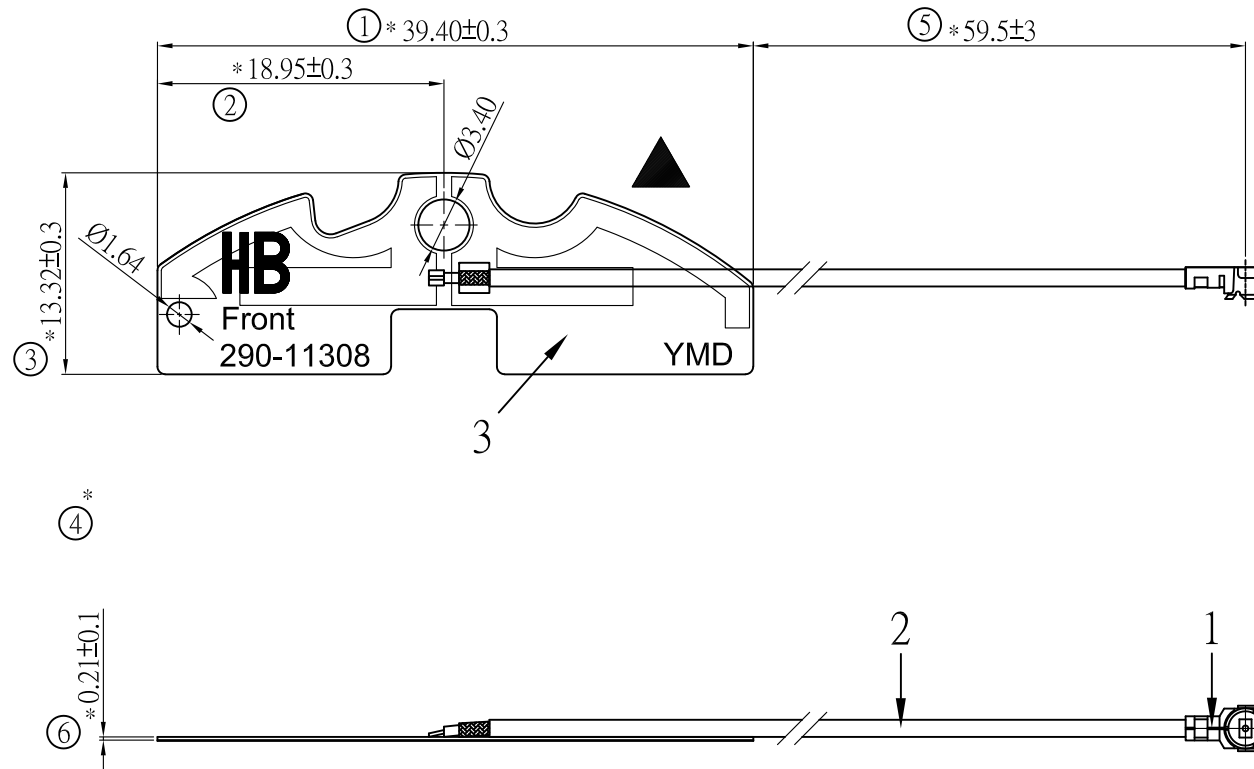
5320MHz



5805MHz



試產



Note:

- 1.標示① ~ ⑤ * 為重点管控尺寸,共5个
其他為全尺寸
- 2.IPEX方向 需與圖面一致
- 3.出線長度100以下 IPEX方向±45°
100~200 IPEX方向±90°
200以上 IPEX方向 不予以管控
- 4.須符合RoHS 2.0 & 無鹵要求

3	FPCB	Front ANT ; FPC + 3M9448(HK) ; T=0.21	1	
2	Cable	1.13 Low Loss Cable; Color : Black ; L=81mm	1	
1	Connector	MHF Compatible Plug for OD 1.13mm	1	
NO.	SORT	SPECIFICATION	Q'TY	VENDOR

	X5	變更處請參照▲	2024-12-24	
	X4	變更處請參照▲	2024-09-05	
	X1	New Issue	2024-07-19	
ECN NO	版次	變更內容	日期	確認
RANGE	客戶名稱:	Amigo	常熟市泓博通訊技術股份有限公司 CHANGSHU HONGBO TELECOMMUNICATION TECHNOLOGY CO.,LTD	
TOLERANCES	客戶料號:			
0-30 ±1.5	泓博料號:	290-11308	產品名稱:	DCS-8620_Front ANT_成品圖
31-100 ±2	制圖:	Eason	頁次:	1 - 1
101-200 ±3	BMD 審核:	Ball	版次:	2 : 1
201以上 ±4	核准:	Alex	校對:	
REF ±3				
METRIC: mm				

三、Product Photo



四、BOM LIST

序 號	品 名	加工廠商名稱	規格	UL No
1	线材	希格诺	1.13LL Cable; Color : Black FEP	E520057
2	端子	彩美	958-C113-CM-B-BU-A0	E107536
3	FPC	华扬	39.4*13.3*0.21 mm 单面板单面防焊哑光黑漆	E109769