

# 东莞市涵屹电子有限公司

DONG WAN HANYI ELECTRONIC CO, LTD

## 产 品 规 格 书

### PRODUCT SPECIFICATION SHEET

Customer: \_\_\_\_\_

Product Name: WiFi 5.8GHz PCB Antenna

Product code: HY-A108-107

Customer code: \_\_\_\_\_

Sample date: 2025-1-14

Confirm:

| Approval | Quality | Engineer | Signature |
|----------|---------|----------|-----------|
| David    | Henry   | lisa     |           |

Customer Confirm:

| Approval                                                                                                  | Quality | Engineer | Signature |
|-----------------------------------------------------------------------------------------------------------|---------|----------|-----------|
|                                                                                                           |         |          |           |
| Confirm result: <input type="checkbox"/> PASS <input type="checkbox"/> NG <input type="checkbox"/> Others |         |          |           |

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## SPECIFICATION ITEM

| Item   | Description      |
|--------|------------------|
| 1..... | SPEC             |
| 2..... | SPEC ITEM        |
| 3..... | Engineer drawing |
| 4..... | Performance      |

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## RF Antenna Cable Assembly

### Specification

#### 1. Electrical Properties

1.1 Frequency Range.....WiFi 5.8GHz

1.2 Impedance.....50 $\Omega$  Nominal

1.3 VSWR.....1.92:1MAX

1.4 Return Loss.....-10dB Max

1.5 Gain(peak) .....2.72dBi

1.6 Cable loss.....0.02dBi Max

1.7 Polarization.....Linear Vertical

1.8 Conn.....MHF

#### 2. Physical Properties:

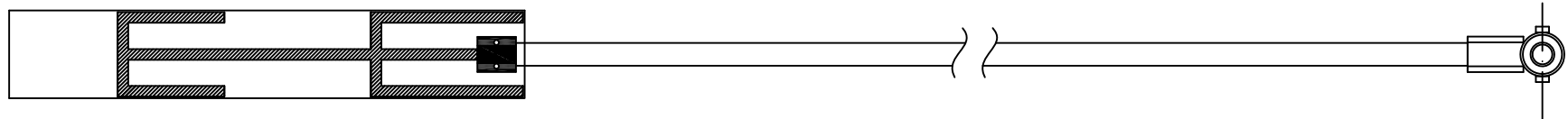
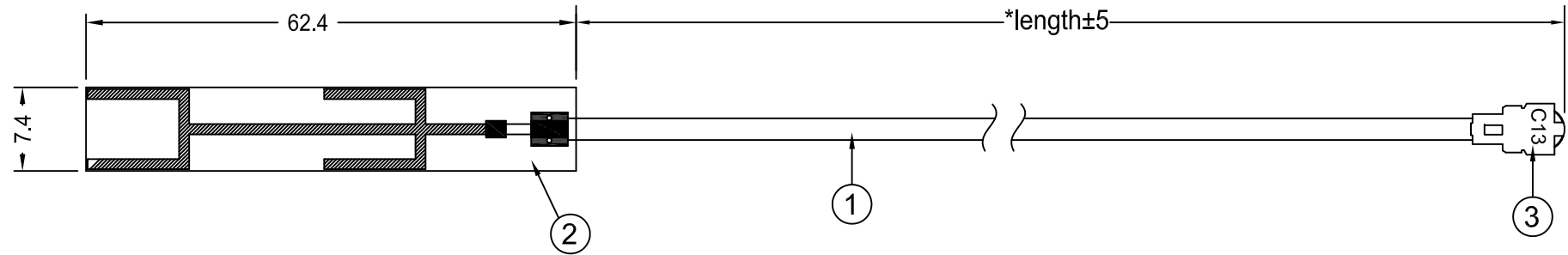
2.1 Antenna Material.....Cu

2.2 Operating Temp.....-20 $^{\circ}$ C- +65 $^{\circ}$ C

2.3 Storage Temp.....-30 $^{\circ}$ C- +75 $^{\circ}$ C

RoHS Compliant

| REV | DATE      | DESCRIPTION |
|-----|-----------|-------------|
| A   | 14/1-2025 | New Issue   |



Specification:  
Frequency Range:WiFi 5.8GHz  
Return loss:-10dB or less  
Peak Gain:2dBi±0.5dBi

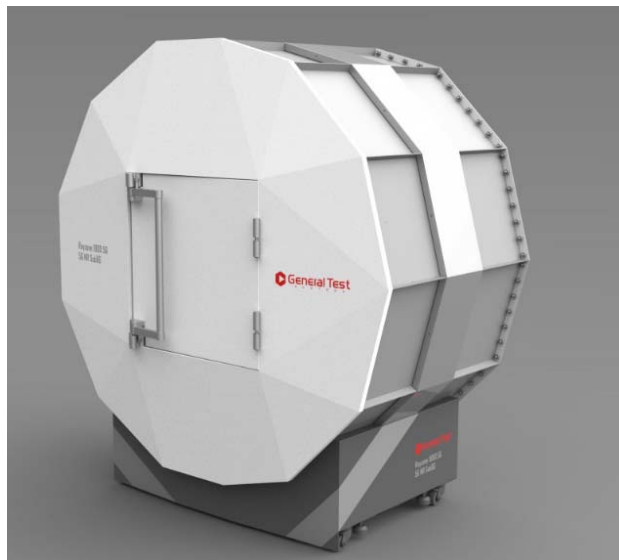
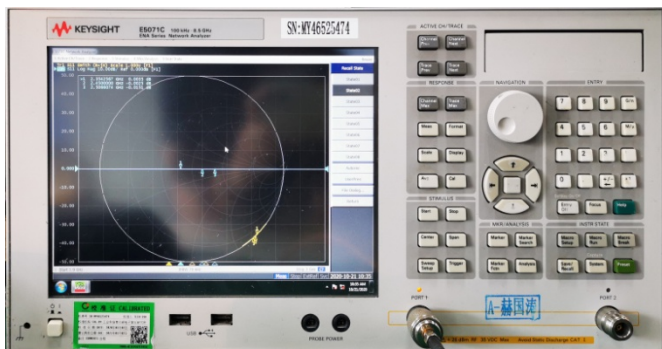
| length 1 | length 2 | Unit |
|----------|----------|------|
| 130      | 170      | mm   |

|    |               |      |                           |                                 |            |                    |                        |           |           |
|----|---------------|------|---------------------------|---------------------------------|------------|--------------------|------------------------|-----------|-----------|
|    |               |      |                           | TITLE: WIFI 5.8GHz FPCB Antenna |            |                    |                        |           |           |
| 3  | Connector     | 1    | C13 Au Plating            | PART NO.: HY-A108-107           |            |                    | DWG NAME: HY-T204 .dwg |           |           |
| 2  | FPCB          | 1    | L62.4mm/W7.4mm Au Plating | APPROVED BY                     | CHECKED BY | DESIDNED BY        |                        | Tolerance |           |
| 1  | Coaxial Cable | 1    | O.D.1.13mm Gray           | David<br>2025/1/14              |            | Kevin<br>2025/1/14 | UNITS: mm              | X. ±1.0   |           |
|    |               |      | SCALE: 1/1                |                                 |            |                    | X.X ±0.5               |           |           |
| NO | PART NAME     | Q'TY | DESCRIPTION               |                                 |            |                    | REVISION: A            |           | X.XX ±0.2 |

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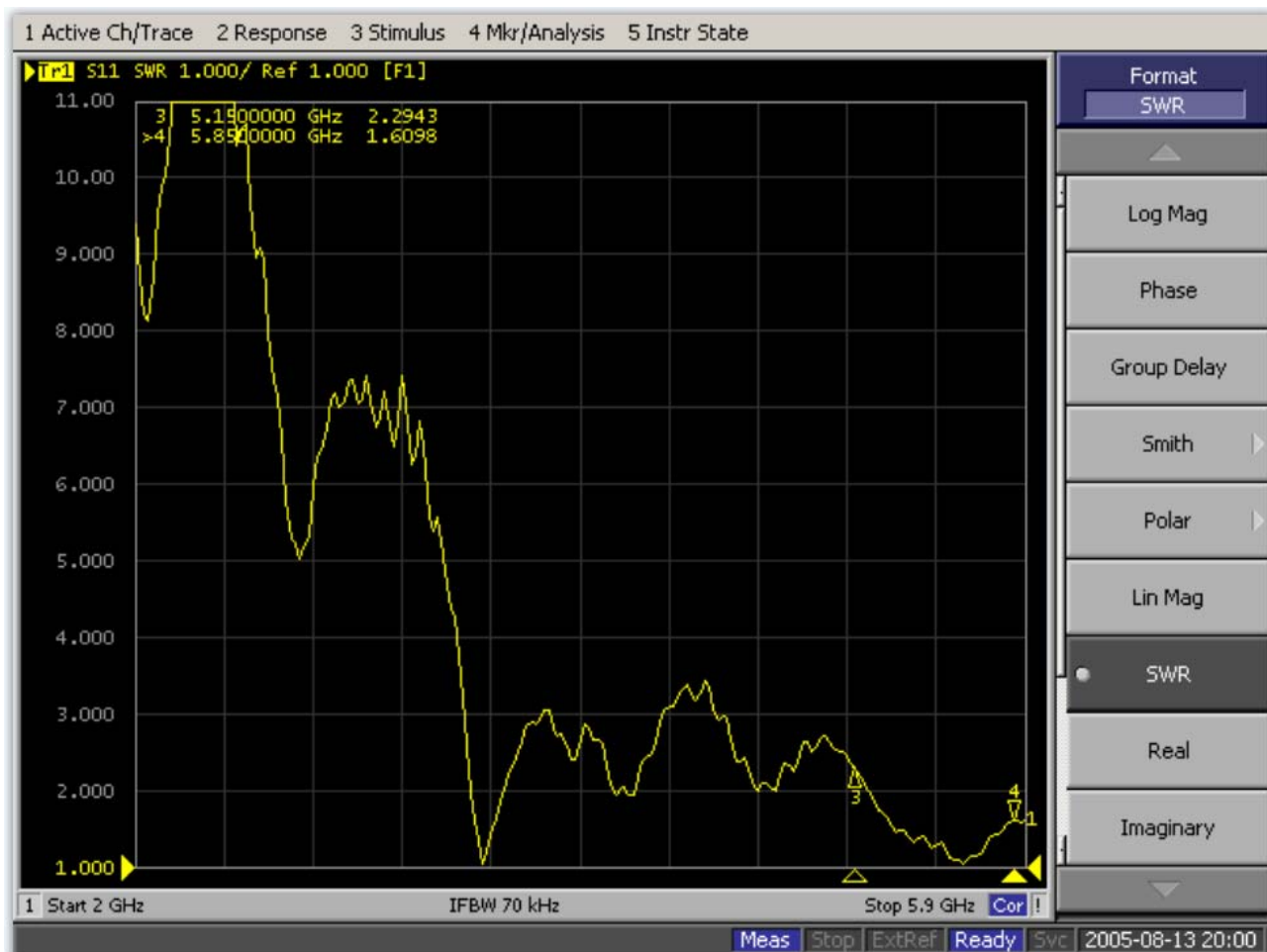
Antenna Test equipment  
SPEC:5.8GHz Antenna



Product Test photo:



### 1.0 V.S.W.R



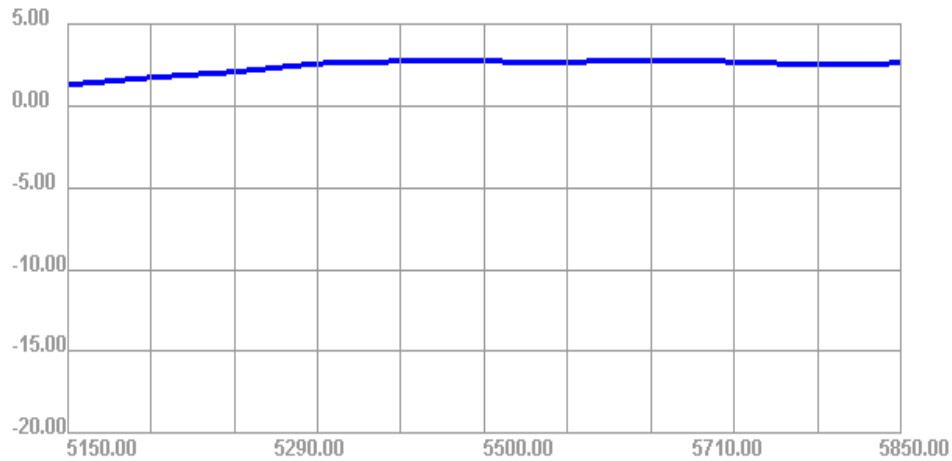
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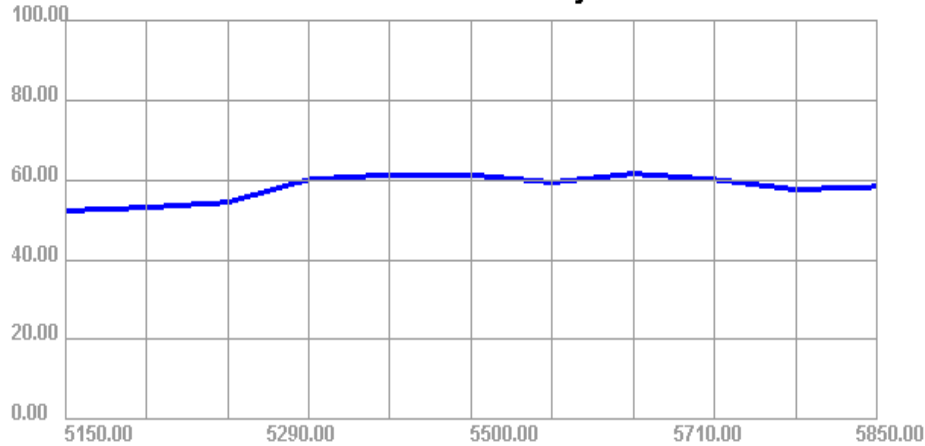
## WiFi 5.8Ghz Performance data:

| Passive Test For 5.8G |             |              |               |               |            |            |             |             |                     |                    |
|-----------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|---------------------|--------------------|
| Freq<br>(MHz)         | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | irectivity<br>(dBi) | Beamwidth<br>(3dB) |
| 5150                  | 52.31       | -2.81        | 1.28          | -0.87         | 25.362     | 26.948     | 1.28        | -29.97      | 4.09                | 0                  |
| 5220                  | 53.12       | -2.75        | 1.72          | -0.43         | 26.685     | 26.43      | 1.72        | -27.83      | 4.47                | 0                  |
| 5290                  | 54.41       | -2.64        | 2.06          | -0.09         | 28.276     | 26.136     | 2.06        | -26.27      | 4.71                | 0                  |
| 5360                  | 60.15       | -2.21        | 2.58          | 0.43          | 32.212     | 27.934     | 2.58        | -28         | 4.78                | 0                  |
| 5430                  | 61.31       | -2.12        | 2.72          | 0.57          | 34.009     | 27.302     | 2.72        | -22.33      | 4.84                | 0                  |
| 5500                  | 61.27       | -2.13        | 2.71          | 0.56          | 34.316     | 26.954     | 2.71        | -27.21      | 4.83                | 0                  |
| 5570                  | 59.41       | -2.26        | 2.67          | 0.52          | 33.501     | 25.911     | 2.67        | -26.4       | 4.93                | 0                  |
| 5640                  | 61.56       | -2.11        | 2.8           | 0.65          | 35.177     | 26.385     | 2.8         | -28.26      | 4.9                 | 0                  |
| 5710                  | 60.13       | -2.21        | 2.69          | 0.54          | 35.356     | 24.775     | 2.69        | -35.27      | 4.9                 | 0                  |
| 5780                  | 57.62       | -2.39        | 2.49          | 0.34          | 34.348     | 23.267     | 2.49        | -23.78      | 4.89                | 0                  |
| 5850                  | 58.33       | -2.34        | 2.6           | 0.45          | 35.403     | 22.931     | 2.6         | -20.48      | 4.94                | 0                  |

5150.00MHz - 5850.00MHz Gain



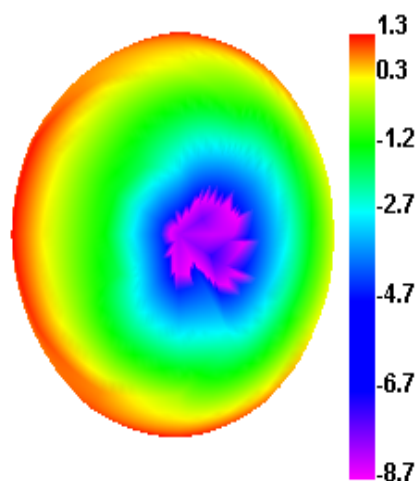
5150.00MHz - 5850.00MHz Efficiency



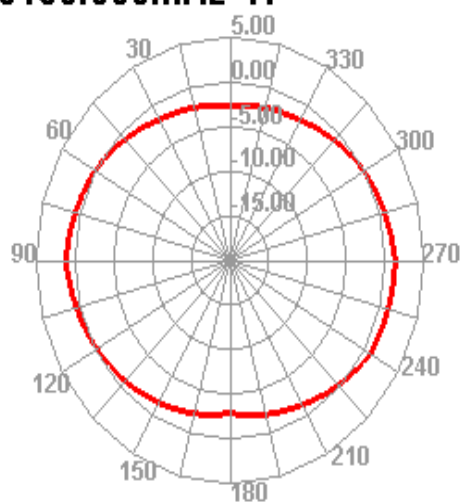
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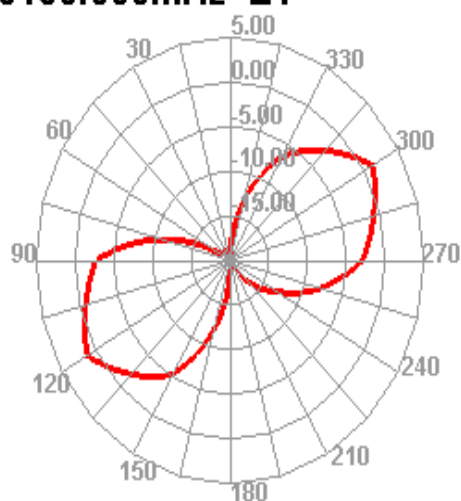
5150.000MHz



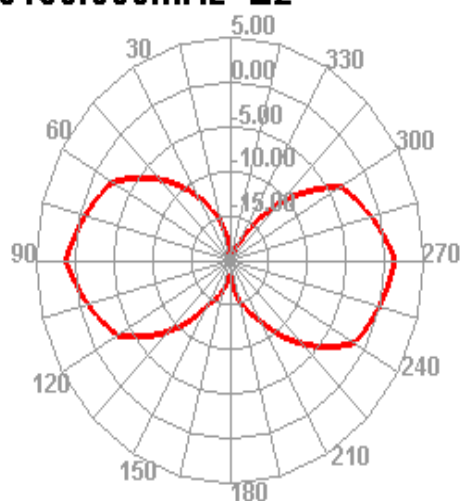
5150.000MHz H



5150.000MHz E1



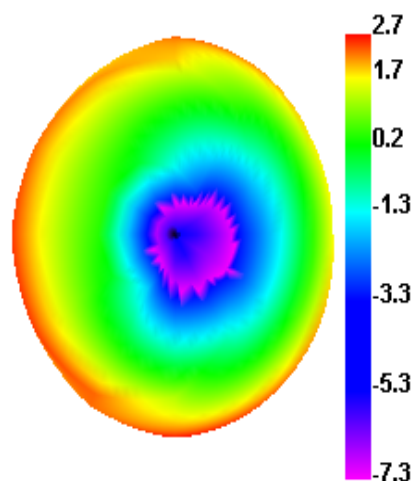
5150.000MHz E2



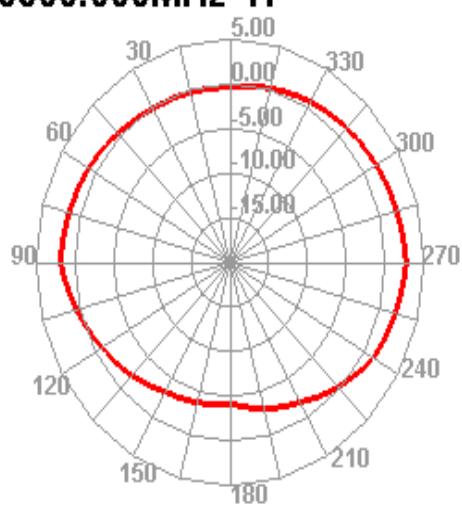
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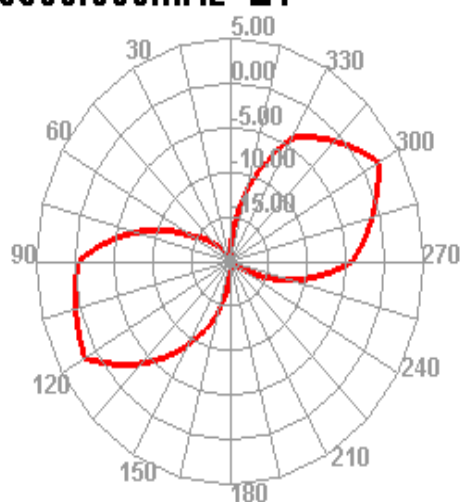
5500.000MHz



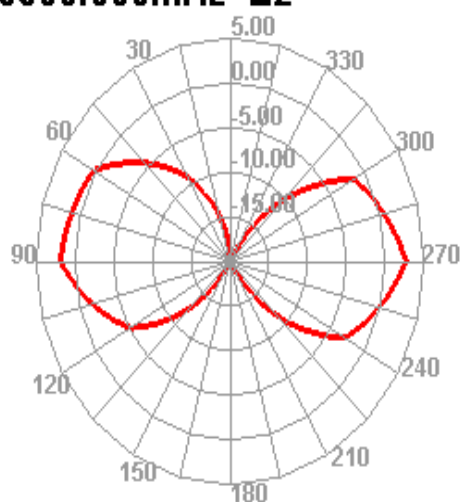
5500.000MHz H



5500.000MHz E1



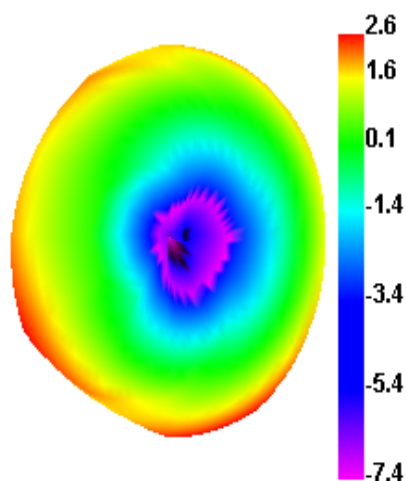
5500.000MHz E2



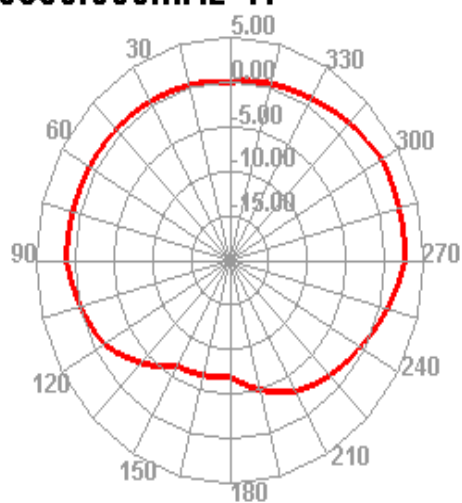
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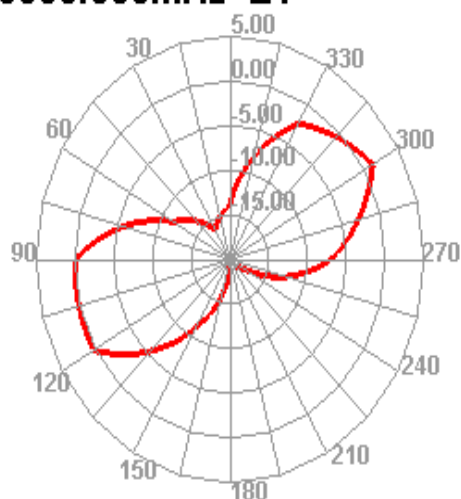
5850.000MHz



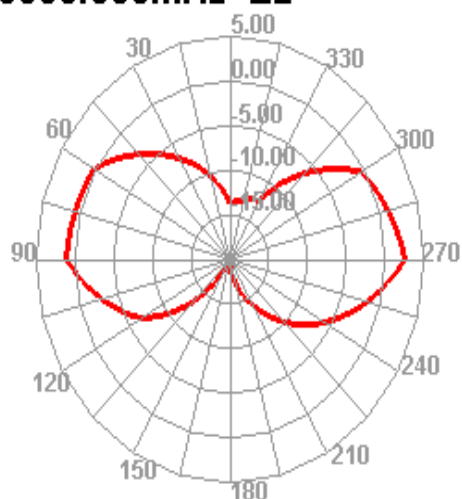
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



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