



|       |       |         |            |
|-------|-------|---------|------------|
| 客户名称  | 柚石物联  | 客户项目负责人 | 晏工         |
| 项目名称  |       | 调试频段    | 2400-2500  |
| 天线类型  | PCB板载 | 测试日期    | 2024-04-15 |
| 射频工程师 | 庄工    | 结构工程师   | 黄工         |

Shenzhen HX Antenna Co., LTD

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Web: <http://www.hxrf-antenna.com/>

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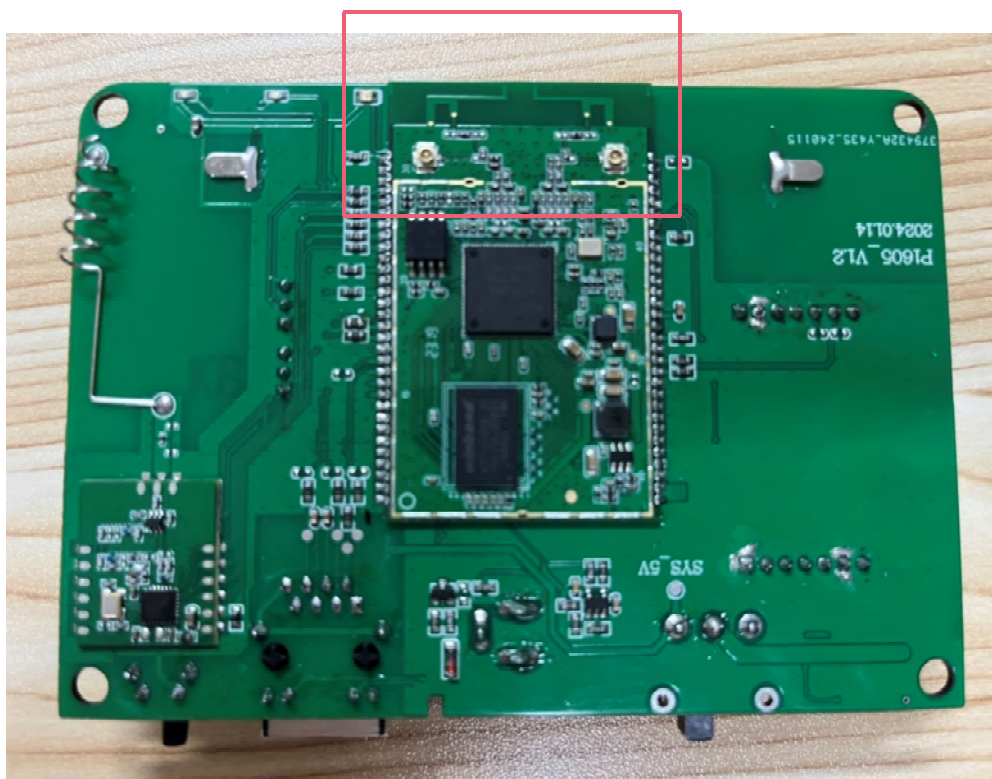
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## Antenna Overview & image

PCB Onboard antenna  
2400-2500MHZ



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## 2400 Aatenna Gain&Efficiency

| Frequency (MHz)  | 2395  | 2400  | 2405  | 2410  | 2415  | 2420  | 2425  | 2430  | 2435  | 2440  | 2445  | 2450  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficiency (dBi) | -9.04 | -9.03 | -9.06 | -9.21 | -9.31 | -9.38 | -9.54 | -9.71 | -9.86 | -9.87 | -9.80 | -9.90 |
| Gain (dBi)       | -3.15 | -3.14 | -3.21 | -3.46 | -3.59 | -3.78 | -3.96 | -4.11 | -4.38 | -4.30 | -4.23 | -4.25 |
| Efficiency (%)   | 12.47 | 12.51 | 12.42 | 11.98 | 11.73 | 11.53 | 11.13 | 10.70 | 10.34 | 10.29 | 10.46 | 10.23 |
| Directivity (dB) | 5.89  | 5.89  | 5.85  | 5.75  | 5.72  | 5.60  | 5.58  | 5.59  | 5.48  | 5.57  | 5.57  | 5.65  |

| Frequency (MHz)  | 2460   | 2465   | 2470   | 2475   | 2480   | 2485   | 2490   | 2495   | 2500   | 2505   | 2510   |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Efficiency (dBi) | -10.13 | -10.17 | -10.37 | -10.52 | -10.56 | -10.59 | -10.67 | -10.79 | -10.94 | -10.95 | -11.05 |
| Gain (dBi)       | -4.41  | -4.48  | -4.67  | -4.92  | -5.10  | -5.07  | -5.05  | -5.33  | -5.47  | -5.48  | -5.59  |
| Efficiency (%)   | 9.70   | 9.62   | 9.19   | 8.87   | 8.79   | 8.74   | 8.58   | 8.33   | 8.06   | 8.03   | 7.86   |
| Directivity (dB) | 5.73   | 5.69   | 5.69   | 5.60   | 5.46   | 5.52   | 5.62   | 5.47   | 5.47   | 5.47   | 5.46   |

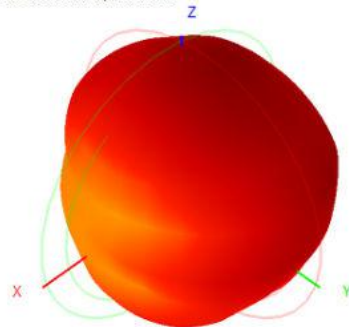
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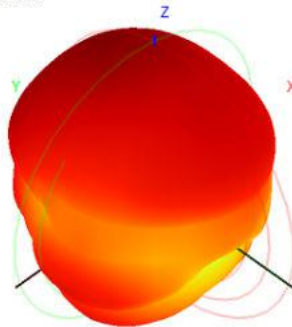
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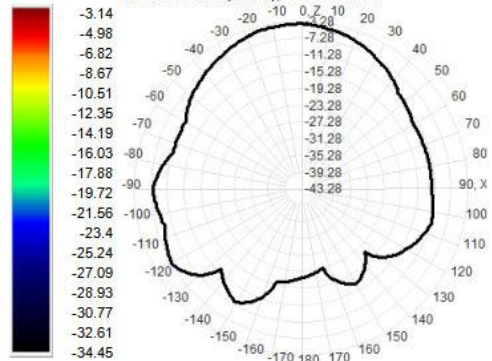
2400.0MHz H+V, Eff: 12.5%



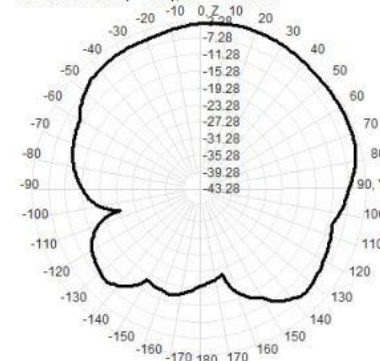
Back View



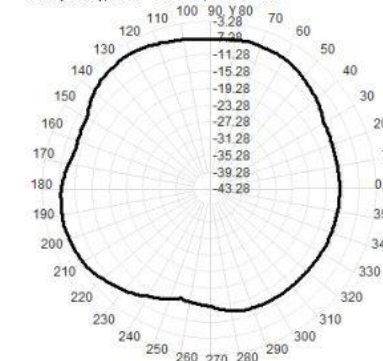
2400.0MHz Total(E1-XZ), Max=-3.94dBi



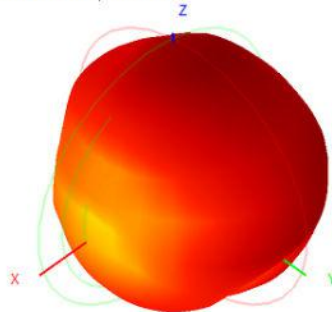
2400.0MHz Total(E2-YZ), Max=-3.28dBi



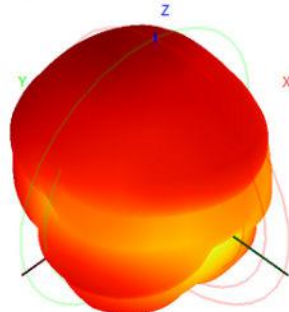
Total(H-XY), Max=-5.85dBi, CirD=10.42



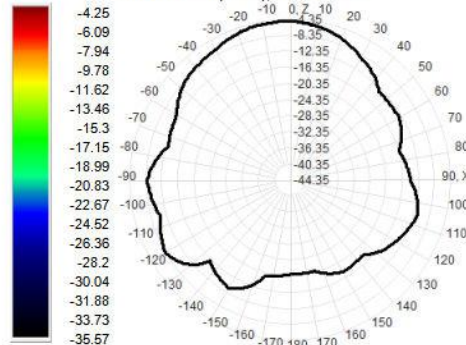
2450.0MHz H+V, Eff: 10.2%



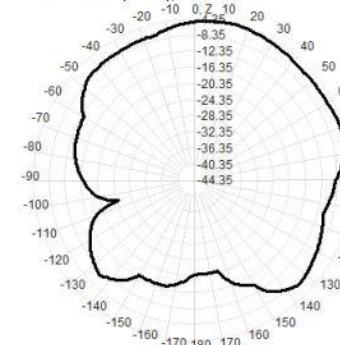
Back View



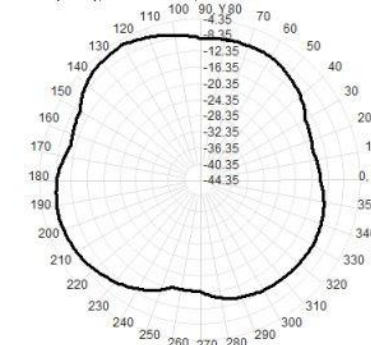
2450.0MHz Total(E1-XZ), Max=-4.84dBi



2450.0MHz Total(E2-YZ), Max=-4.35dBi



Total(H-XY), Max=-5.68dBi, CirD=11.32



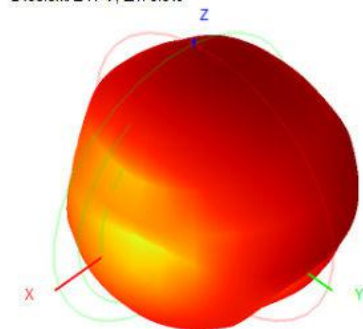
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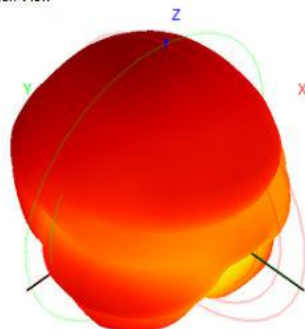
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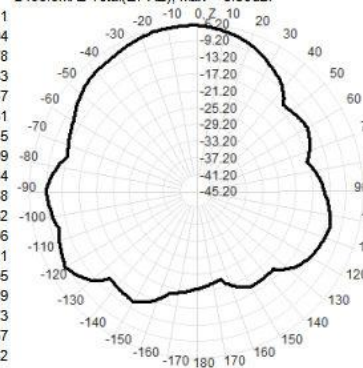
2480.0MHz H+V, Eff: 8.8%



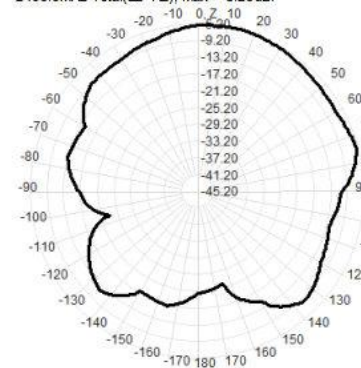
Back View



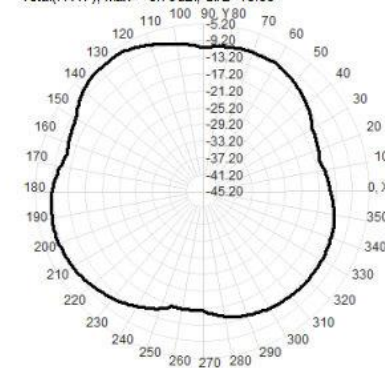
2480.0MHz Total(E1-XZ), Max=-5.56dBi



2480.0MHz Total(E2-YZ), Max=-5.20dBi



Total(H-XY), Max=-6.78dBi, CirD=10.09



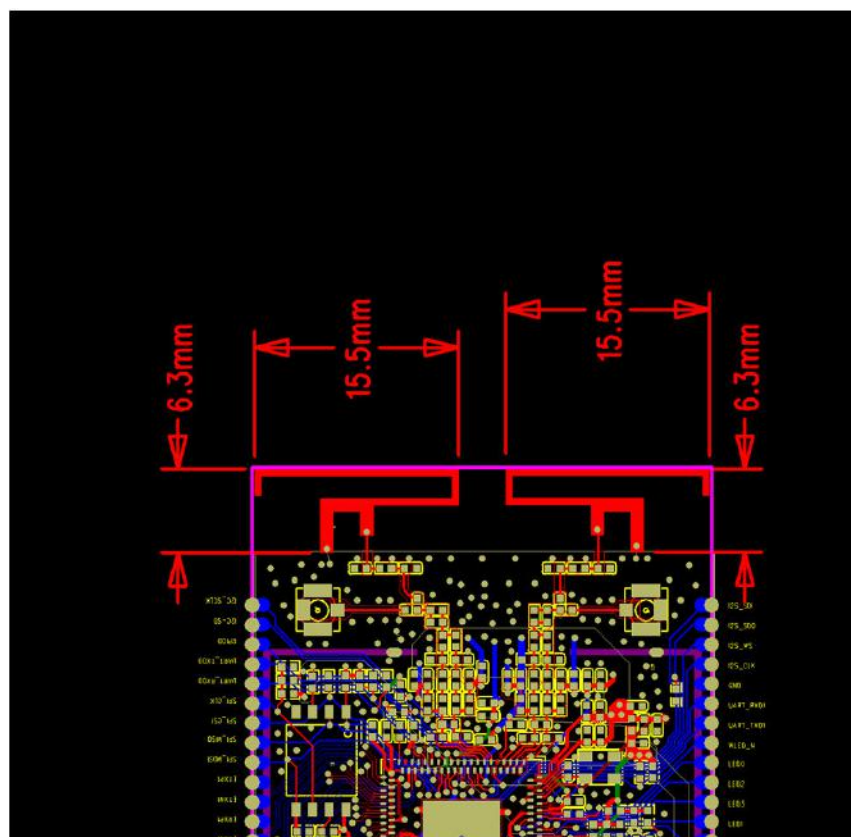
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# Antenna size diagram



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THANKS

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