

module antenna test report

— ANT manufacturer

名称：深圳市聆动智能科技有限公司

Company name: Shenzhen Lingdong Intelligent
Technology Co., Ltd

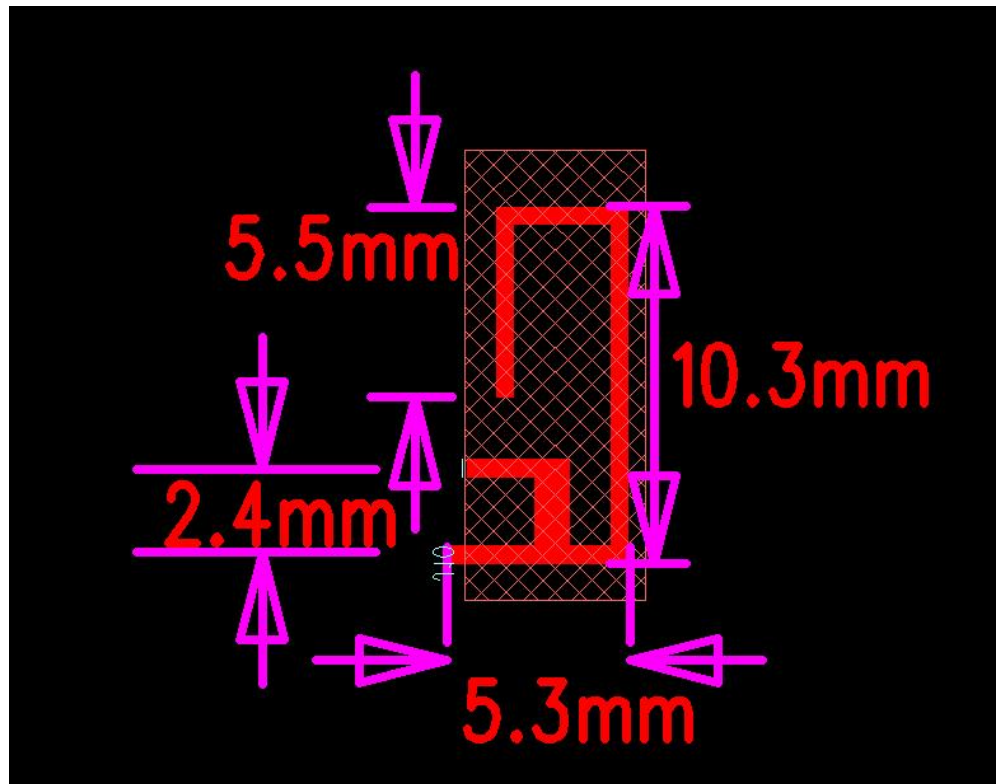
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创新谷1栋B座1501

address: 1501, Block B, Building 1, Shenzhen
International Innovation Valley, Dashi 1st Road, Xili
Community, Xili Street, Nanshan District, Shenzhen

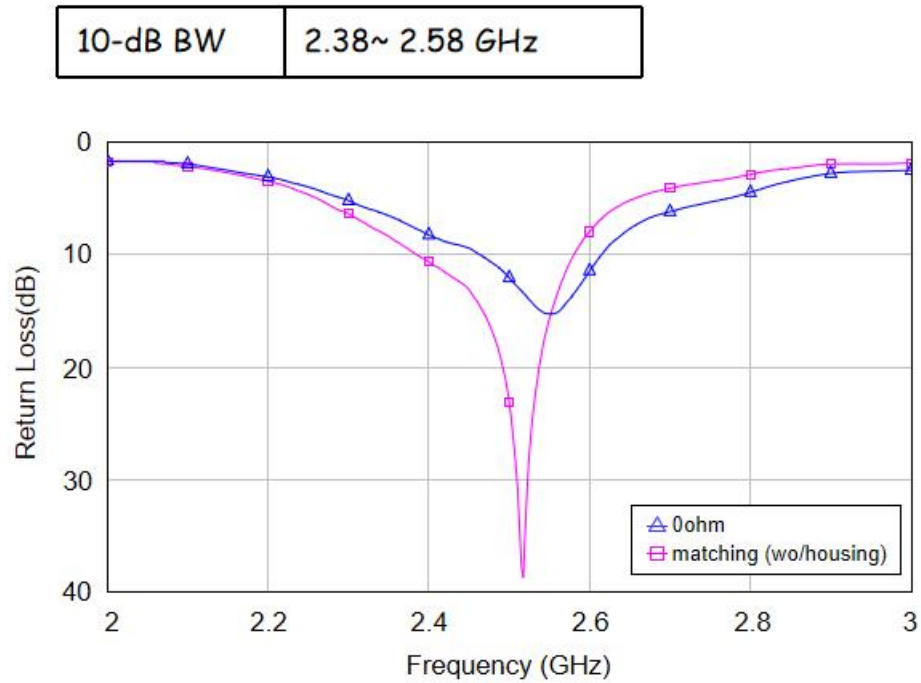
- Antenna structure

- Photo

ANT

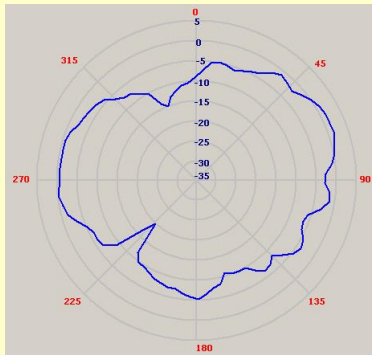


- Return Loss



Radiation Patterns — 2400MHz (2n2 wo/housing)

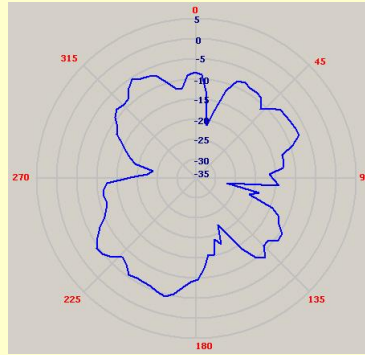
xy-plane



horizontal

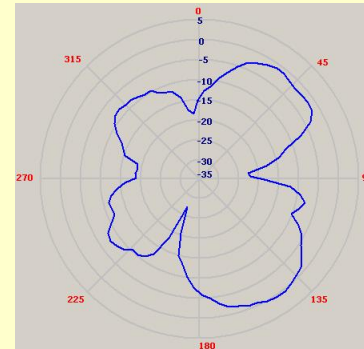
| Pol. | Peak | avg. |
|------|------|------|
| h | +1.4 | -3.6 |

xz-plane



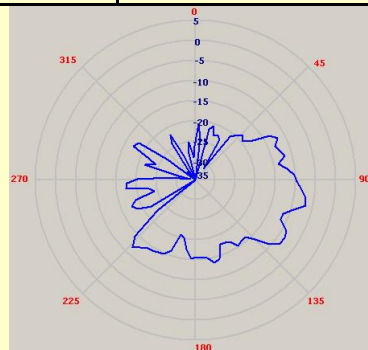
| Pol. | peak | avg. |
|------|------|------|
| h | -4.6 | -9.3 |

yz-plane

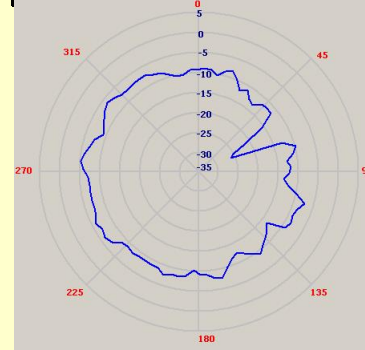


| Pol. | peak | avg. |
|------|------|------|
| h | +0.4 | -5.8 |

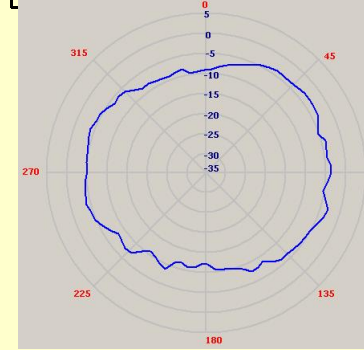
vertical



| Pol. | peak | avg. |
|------|------|-------|
| v | -6.9 | -14.8 |



| Pol. | peak | avg. |
|------|------|------|
| v | -5.4 | -8.8 |

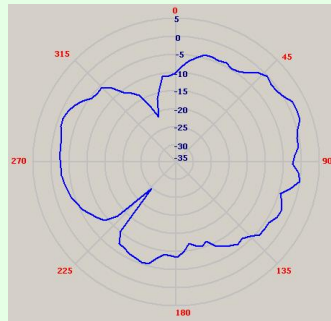


| Pol. | peak | avg. |
|------|------|------|
| v | -3.2 | -5.9 |

Radiation Patterns — 2450MHz (2n2 wo/housing)

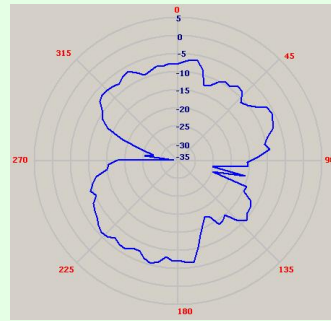
horizontal

xy-plane



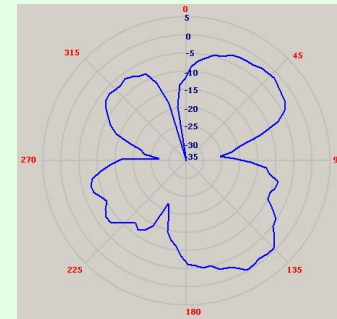
| Pol. | Peak | avg. |
|------|------|------|
| h | +1.5 | -3.8 |

xz-plane



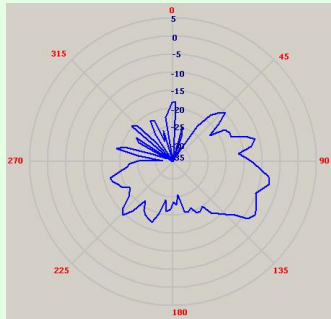
| Pol. | peak | avg. |
|------|------|------|
| h | -5.7 | -9.0 |

yz-plane

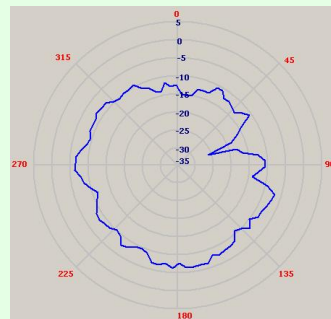


| Pol. | peak | avg. |
|------|------|------|
| h | -0.5 | -6.2 |

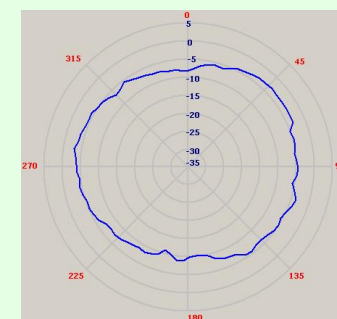
vertical



| Pol. | peak | avg. |
|------|------|-------|
| v | -7.5 | -15.8 |

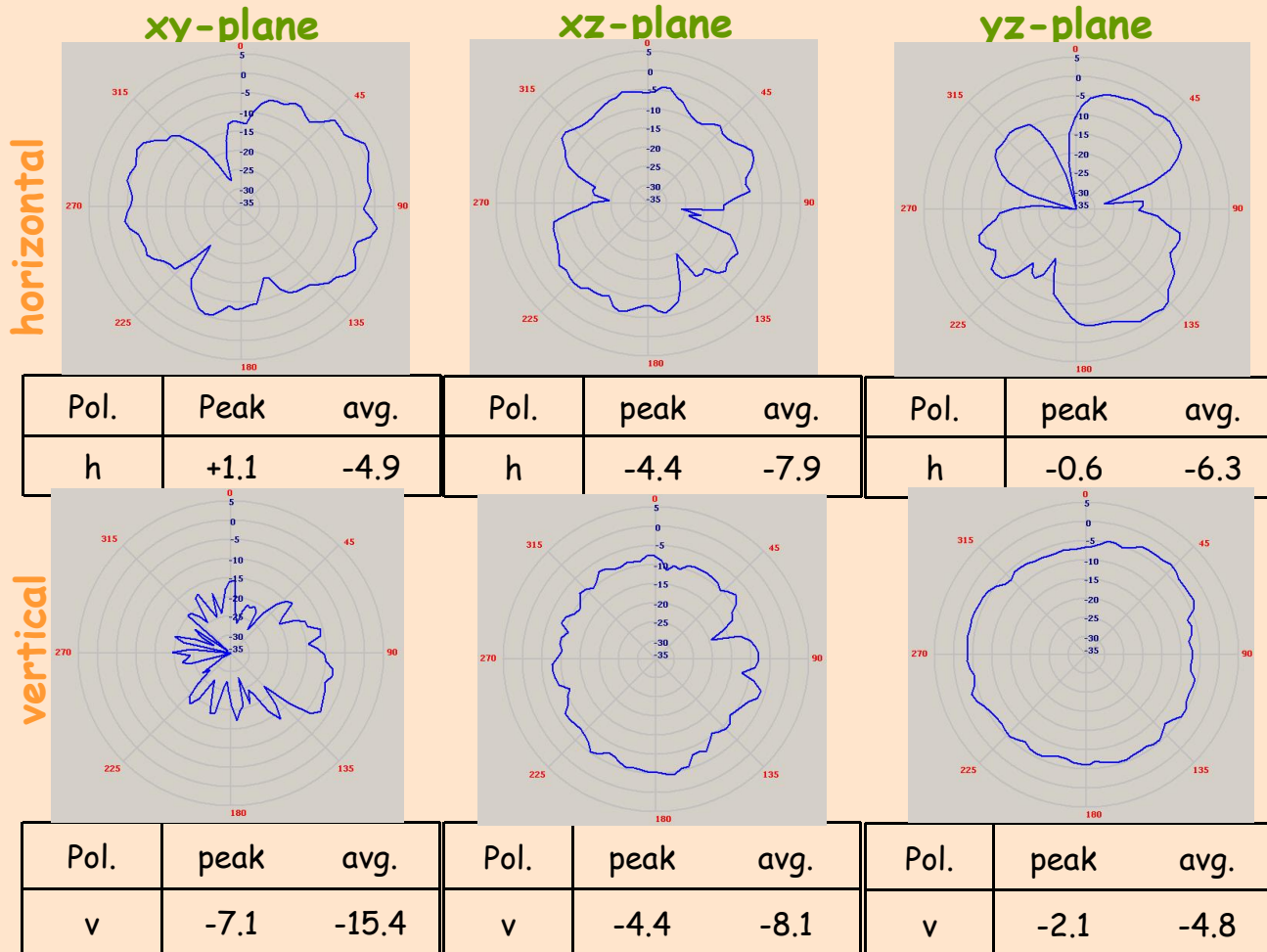


| Pol. | peak | avg. |
|------|------|------|
| v | -6.4 | -9.4 |



| Pol. | peak | avg. |
|------|------|------|
| v | -3.3 | -5.5 |

Radiation Patterns — 2480MHz (2n2 wo/housing)



Antenna gain table

| Freq. | 2400MHz | | | | | | | | | | | | Efficiency (%) |
|------------|----------|------|------|-------|----------|------|------|------|----------|------|------|------|----------------|
| Plane | xy-plane | | | | xz-plane | | | | yz-plane | | | | |
| Pol. | h | | v | | h | | v | | h | | v | | |
| Gain (dBi) | peak | avg. | peak | avg. | peak | avg. | peak | avg. | peak | avg. | peak | avg. | |
| | +1.4 | -3.6 | -6.9 | -14.8 | -4.6 | -9.3 | -5.4 | -8.8 | +0.4 | -5.8 | -3.2 | -5.9 | 41.3 |

| Freq. | 2450MHz | | | | | | | | | | | | Efficiency (%) |
|------------|----------|------|------|-------|----------|------|------|------|----------|------|------|------|----------------|
| Plane | xy-plane | | | | xz-plane | | | | yz-plane | | | | |
| Pol. | h | | v | | h | | v | | h | | v | | |
| Gain (dBi) | peak | avg. | peak | avg. | peak | avg. | peak | avg. | peak | avg. | peak | avg. | |
| | +1.5 | -3.8 | -7.5 | -15.8 | -5.7 | -9.0 | -6.4 | -9.4 | -0.5 | -6.2 | -3.3 | -5.5 | 40.1 |

| Freq. | 2480MHz | | | | | | | | | | | | Efficiency (%) |
|------------|----------|------|------|-------|----------|------|------|------|----------|------|------|------|----------------|
| Plane | xy-plane | | | | xz-plane | | | | yz-plane | | | | |
| Pol. | h | | v | | h | | v | | h | | v | | |
| Gain (dBi) | peak | avg. | peak | avg. | peak | avg. | peak | avg. | peak | avg. | peak | avg. | |
| | +1.1 | -4.9 | -7.1 | -15.4 | -4.4 | -7.9 | -4.4 | -8.1 | -0.6 | -6.3 | -2.1 | -4.8 | 41.1 |