



香港鑫恒陽股份有限公司
HongKong Xinghengyang Stock Co., Ltd.
深圳市鑫恒阳科技有限公司
ShenZhen XinHengYang Technology co., Ltd





Xinhengyang antenna test data report

909 Kanghesheng Building, No.1 Chuangsheng Road, Shuguang Community, Xili Street, Nanshan District, Shenzhen, China

| | |
|--------------------|--------------|
| CUSTOMER NAME: | Optergy |
| PRODUCT NAME: | Thermostat |
| XIN HENG YANG P/N: | FPC |
| WRITED: | SHIRONG.TANG |
| DATE: | 2024/08/24 |

Catalogue

1. Test the dark room profile
2. Machine table pictures
3. Antenna assembly
4. Passive data (Return Loss & VSWR)
5. Passive data (Efficiency & Average gain)
6. Passive data (Field plot)

1. Test the dark room profile

1. Active test: Support 2.3.4.5G multi-mode measurement NB-IoT, eMTC, CAT-1, Bluetooth1-5, WIFI802.11 abgn, measurable TRP TIS
2. Passive test: testable gain and efficiency
3. TWS headset test the head model full set



2. Machine table pictures

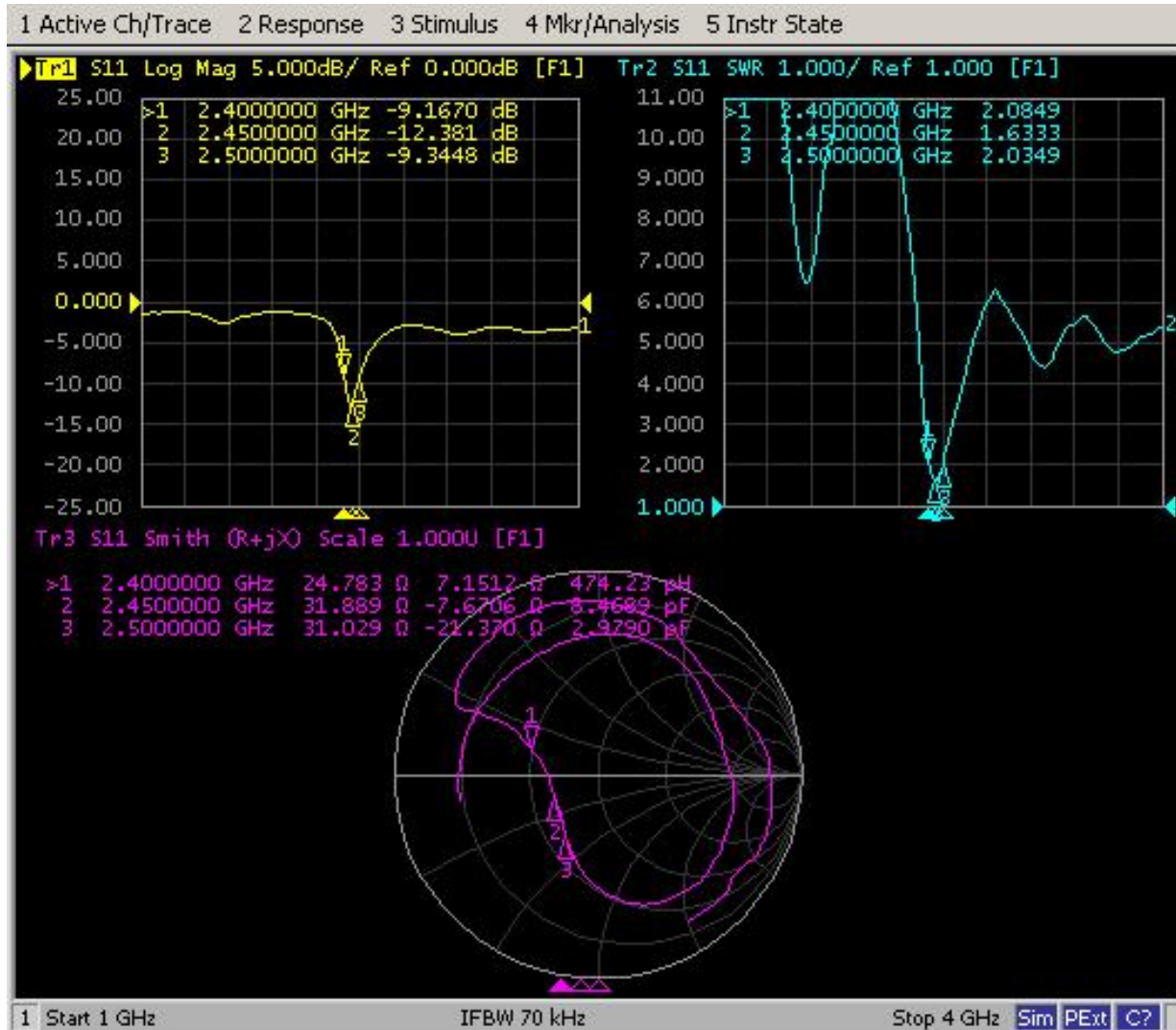


3. Antenna assembly



Place the antenna sticker in the position shown in the picture

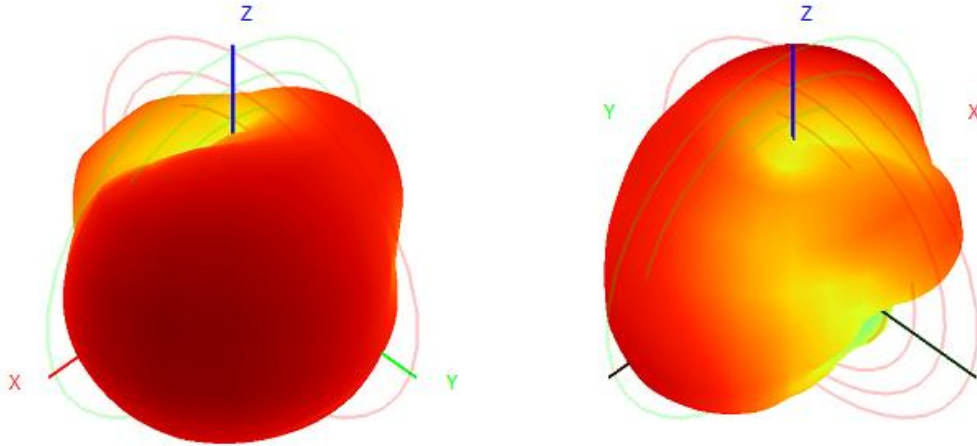
4. Passive Data (Return Loss & VSWR)



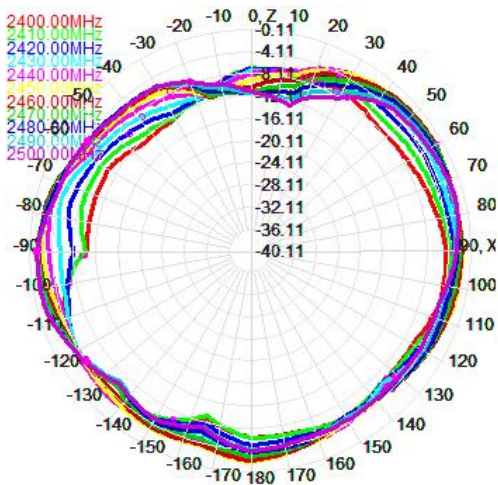
5. Passive data (Efficiency & Average gain)

| Frequency (MHz) | Efficiency (%) | Gain (dBi) |
|-----------------|----------------|------------|
| 2400 | 20.73 | -2.06 |
| 2410 | 21.68 | -2.19 |
| 2420 | 23.94 | -2.27 |
| 2430 | 26.29 | -2.23 |
| 2440 | 30.26 | -0.59 |
| 2450 | 32.16 | 0.19 |
| 2460 | 33.26 | 0.74 |
| 2470 | 33.45 | 0.96 |
| 2480 | 34.07 | 1.10 |
| 2490 | 33.13 | 0.95 |
| 2500 | 34.67 | 1.33 |

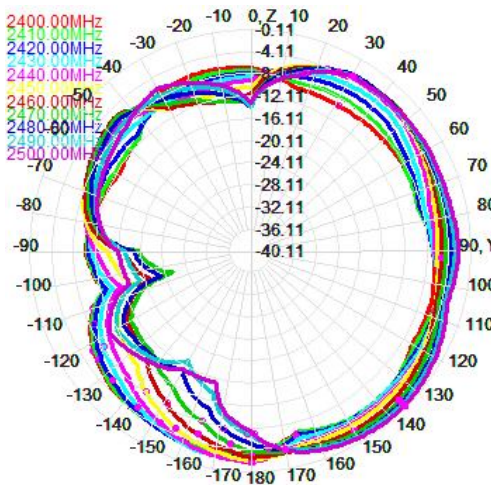
6. Passive data (2400–2500 MHz field pattern)



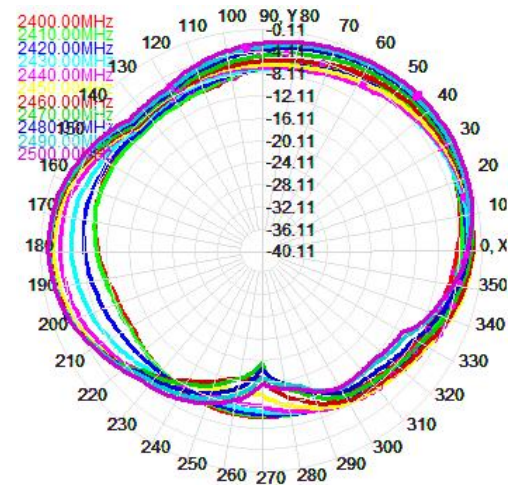
Total(E1-XZ)



Total(E2-YZ)



Total(H-XY)





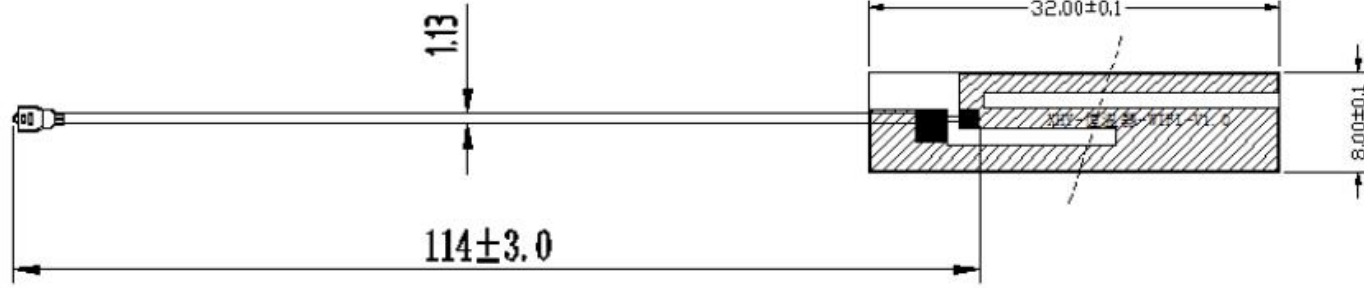
深圳市鑫恒阳科技有限公司

<https://www.xhy-2008.com>

Antenna Dimensions

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成品图



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| REVISION CHANGES | | | | |
|------------------|-------------|------|------|----------|
| REV | DESCRIPTION | AUTH | DATE | APPROVED |
| | | | | |
| | | | | |

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| MATERIAL | TOLERANCE | | UNIT | CHECKED | SIGNATURE | DATE | 深圳市鑫恒阳科技有限公司 | | |
|----------|------------|-----------------|-------|----------|-----------|------|--------------|---------|---------|
| | LINEAR | ANGLE | | | | | DESIGNED | 品名 | 料号 |
| 5.0~10.0 | ± 0.13 | $\pm 0.5^\circ$ | mm | | | | 品名 | WGB 同轴线 | |
| 0.0~3.0 | ± 0.09 | | mm | | | | 料号 | | |
| SHEET OF | 0.0~3.0 | ± 0.05 | SCALE | APPROVED | | | DWG. NO. | REV | SIZE A4 |