



# 东莞市皇捷通讯科技有限公司

DONGGUAD HUANG JIE COMMUNI CAT ION TECHNOLOGY CO.,LTD.

3N0401BK-011

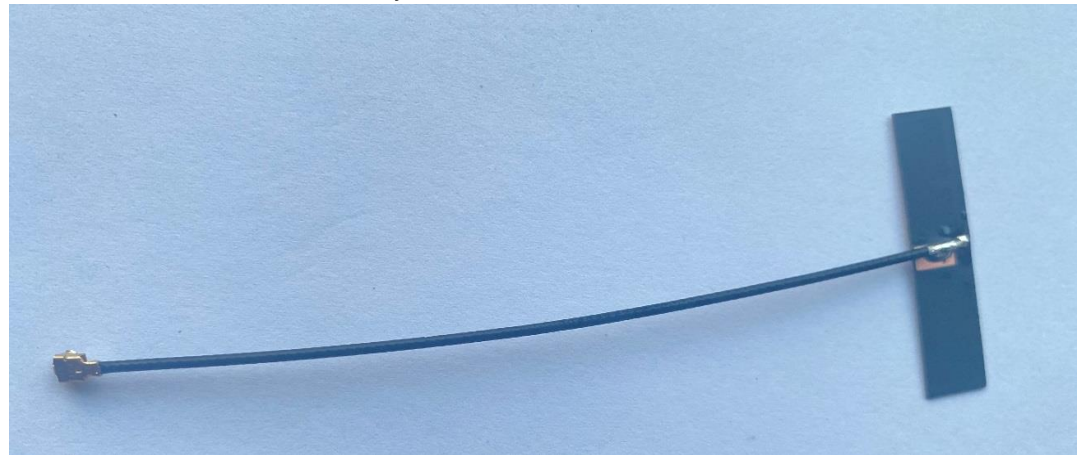
2.4GHz ISM Flexible Polymer

## Key Features

2.4 GHz ISM  
2400-2500 MHz

Embedded Antenna  
Wifi Antenna  
High Performance  
Ground Plane Independent  
Self-Adhesive

Dimensions 32.6 x 8.0mm  
ustomizable Cable and Connecto



## Description

3N0401BK-011 antenna is flexible high efficiency embedded solution covering 2.4 GHz. Antenna can be easily mounted in most devices due to self-adhesive layer and small size. 3N0401BK-011 is omnidirectional, ground plane independent antenna. Cable and connector is upon request.

东莞市皇捷通讯科技有限公司  
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## Antenna and electrical specifications

|                      |  |
|----------------------|--|
| Parameters           | 2.4GHz ISM Flexible Polymer              |
| Standards            | WiFi                                     |
| Band (MHz)           | 2.4GHz                                   |
| Frequency (MHz)      | 2400-2500 MHz                            |
| Return Loss (dB)     | -15.6                                    |
| VSWR                 | <2.0                                     |
| Efficiency (%)       | 45-60                                    |
| Peak Gain (dBi)      | 2  |
| Impedance (Ohm)      | 50                                       |
| Polarisation         | Linear                                   |
| Radiation Pattern    | Omni-Directional                         |
| Max. Input Power (W) | 25                                       |
| Connector Type       | Most RF Connectors (U.FL Standard)       |
| Cable Length         | Any Cable Length (97.5mm Standard)       |
| Cable Type           | Other Cables Available (1.13mm Standard) |

### Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

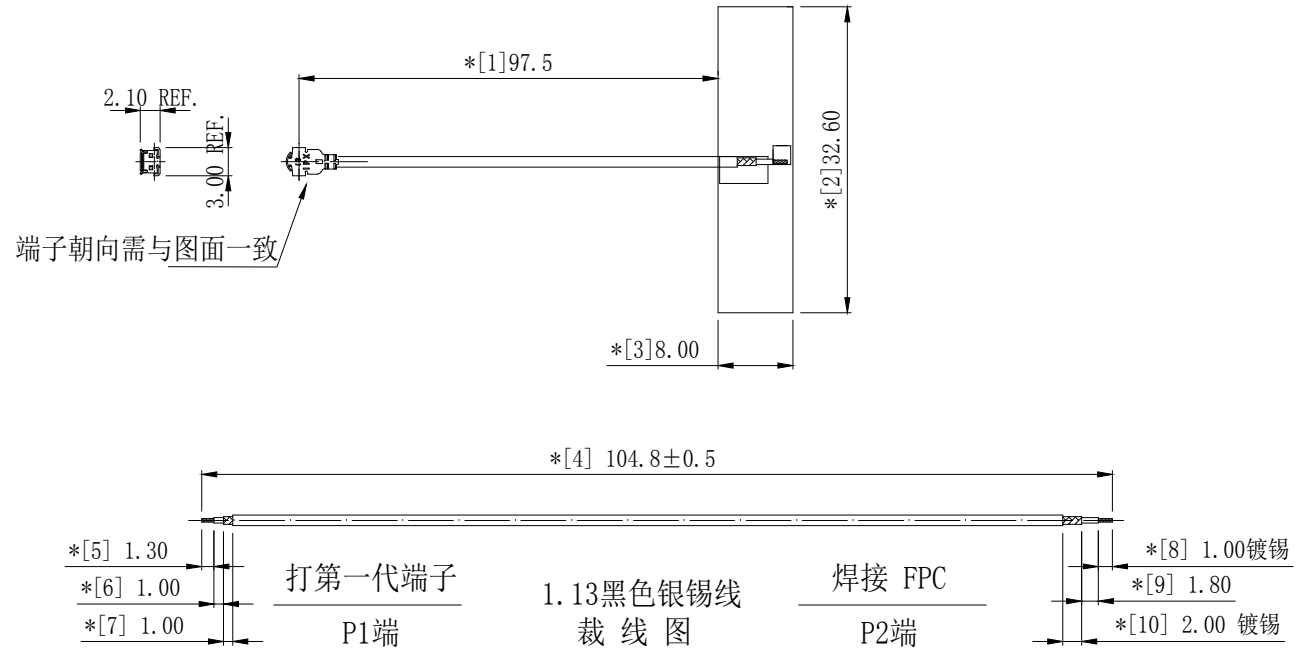
Measured in Certified CTIA 3DAnechoic Chamber



## Mechanical and environmental specifications

|                           |                  |
|---------------------------|------------------|
| Specifications            | 3N0401BK-011     |
| Mounting Type             | Self-Adhesive    |
| Dimensions (mm)           | 32.6 x 8.0mm     |
| Adhesive Type             | 3M               |
| Material                  | Flexible Polymer |
| Operating Temperature (C) | -40 to +85       |
| Storage Temperature (C)   | -40 to +85       |
| Substance Compliance      | RoHS             |

| REVISION | DESCRIPTION   | DATE     | DRAFTER |
|----------|---------------|----------|---------|
| A0       | FIRST RELEASE | 19.06.21 | MARK    |
| A1       | 变更焊接方式        | 19.07.09 | MARK    |



技术要求:

- 1 电气特性: 特性阻抗: 50Ω。  
检验方法: 单测天线, 使用矢量网络分析仪100%测试。
- 2 尺寸检验: [\*]为FAI检测项目; \*为重点检测项目; ■为CPK管制项目。
- 3 外观检验: 电缆裁切须平整, 镀锡须光亮, 导体不得有多余股数伸出与散乱;  
PCB不得有划痕、刮伤、露铜等不良, 焊接须饱满, 不得有假焊、虚焊、毛刺;  
电缆外被不得有破损、折皱及异色等不良。  
检验方法: 目视全检。
- 4 包装规范: 50PCS/扎, 2扎/包, 即100PCS/包。
- 5 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

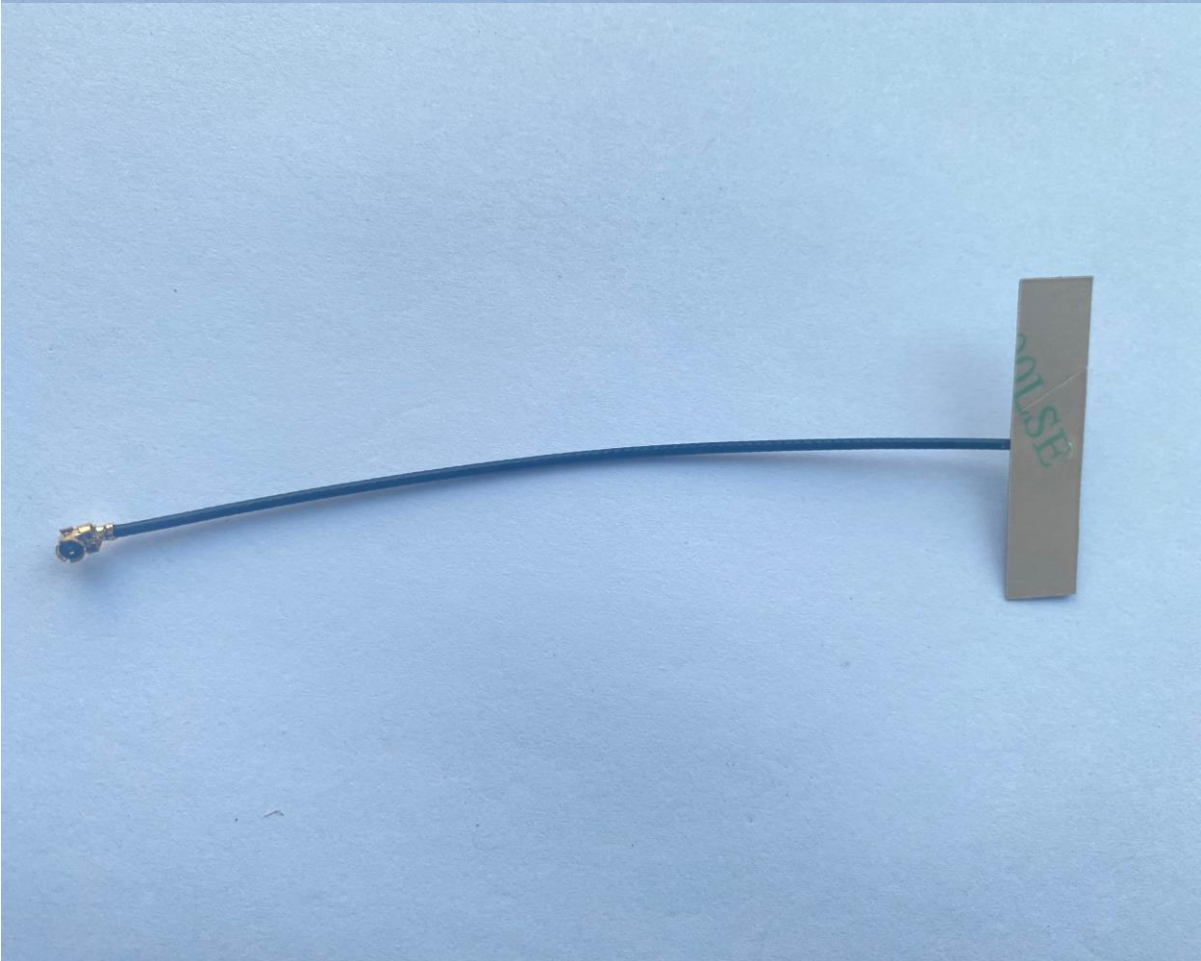
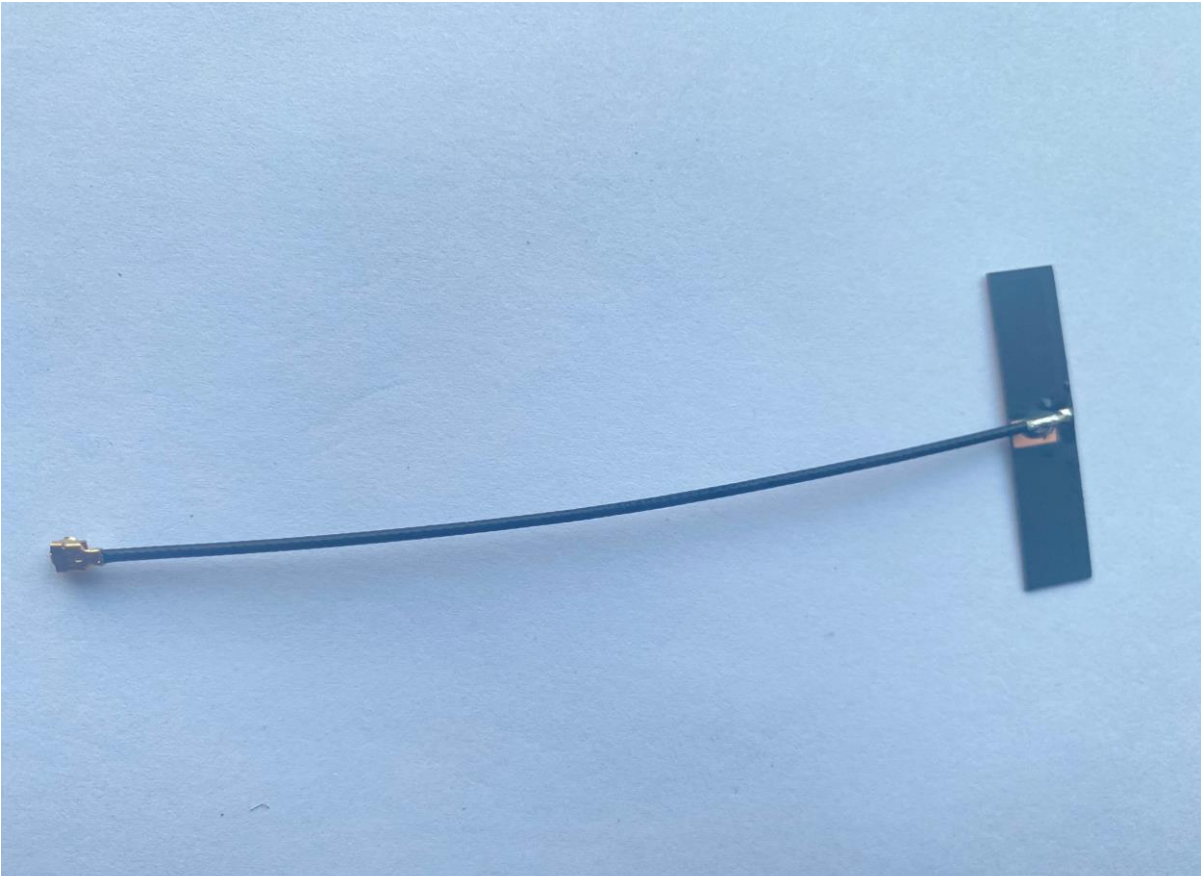
| No. | PART NUMBER  | PART NAME & DESCRIPTION | Q' TY | REMARKS |
|-----|--------------|-------------------------|-------|---------|
| 3   | 2LM10P113210 | 第一代 MHF FOR 1.13 CABLE  | 1     | ---     |
| 2   | 2YF072       | FPC ANTENNA , 黑色防焊漆     | 1     | ---     |
| 1   | 2C5M11311BK1 | OD1.13黑色银锡线-50 OHM      | 1     | 依裁线图裁线  |

|  |   |                       |             |
|--|---|-----------------------|-------------|
| GENERAL TOLERANCE:<br>LINEAR:<br>X ±1.0<br>X.X ±0.50<br>X.XX ±0.30<br>X.XXX ±0.10<br>ANGLE:<br>X° ±4.00°<br>X.X° ±3.00°<br>X.XX° ±2.00°<br>X.XXX° ±1.00° |   | HJ-Tech 东莞市皇捷通讯科技有限公司 |             |
| FILE NAME:<br>产品图  | TITLE:<br>射频天线组件<br>内置天线, 1.13, 黑色银锡线; P1端焊接FPC; P2端打一代端子; 裁线长L=104.8mm | P/N:<br>3N0401BK-011  |             |
| ENG/DATE:<br>Mark/19.06.21   | CHE/DATE:   | APP/DATE:             | UNIT:<br>mm |
| SCALE:<br>1:1  | REVISION:<br>AO   | SHEET:<br>1/1         |             |

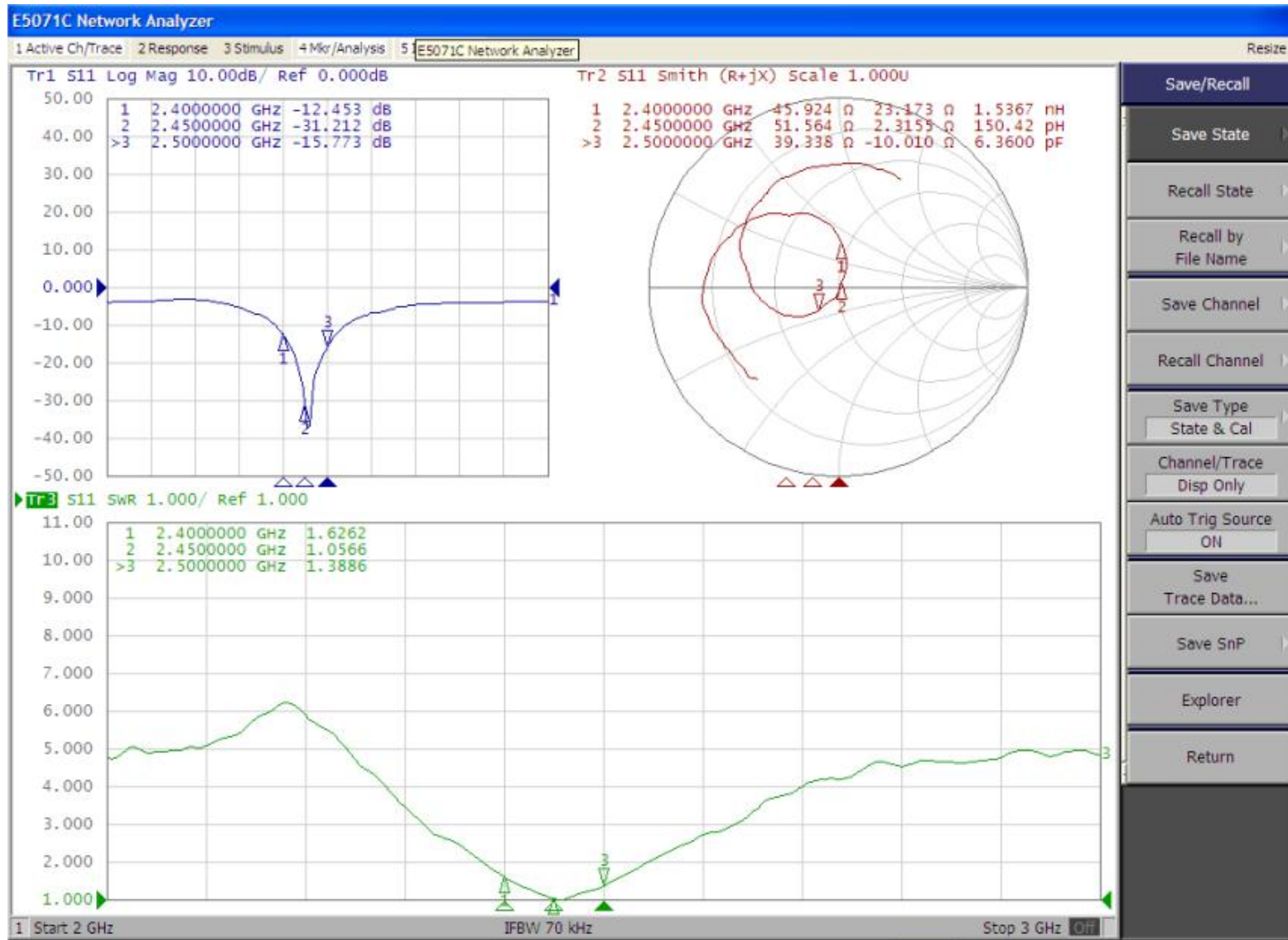
COMPLIANCE WITH THE REQUIREMENT: ■RoHS; □HF; □SONY SS-00259; □OTHERS  
\*NO USING ESTRICED AND BANNED SUBSTANCE

H329

# 实物照片



# SWR

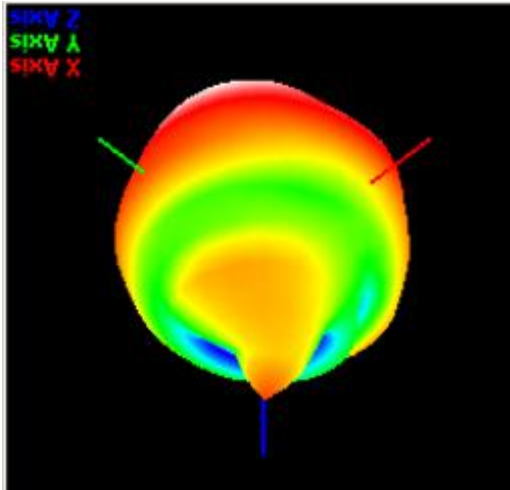


## 效率增益

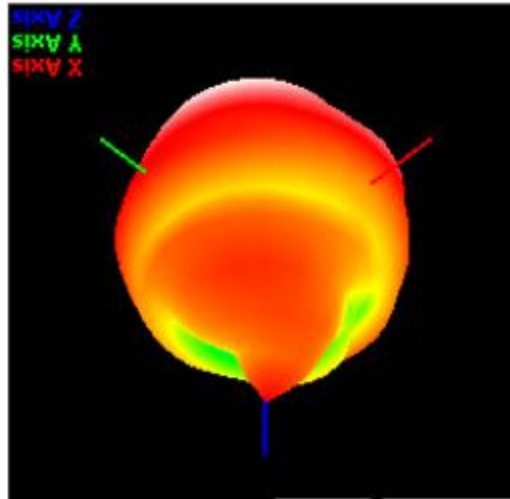
| <b>FETUKEJI</b>            |        |        |        |        |        |        |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency ID               | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
| Frequency (MHz)            | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Point Values               |        |        |        |        |        |        |        |        |        |        |        |
| Ant. Port Input Pwr. (dBm) | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Tot. Rad. Pwr. (dBm)       | -2.23  | -2.24  | -2.15  | -1.96  | -1.96  | -2.01  | -1.97  | -1.90  | -2.02  | -2.15  | -2.19  |
| Peak EIRP (dBm)            | 2.07   | 2.90   | 2.09   | 2.42   | 2.29   | 2.15   | 2.23   | 2.30   | 2.10   | 2.14   | 2.03   |
| Directivity (dBi)          | 4.30   | 4.14   | 4.25   | 4.39   | 4.26   | 4.16   | 4.20   | 4.20   | 4.12   | 4.28   | 4.22   |
| Efficiency (dB)            | -2.23  | -2.24  | -2.15  | -1.96  | -1.96  | -2.01  | -1.97  | -1.90  | -2.02  | -2.15  | -2.19  |
| Efficiency (%)             | 55.90  | 55.70  | 56.90  | 58.60  | 60.60  | 61.90  | 59.50  | 60.50  | 59.80  | 61.00  | 60.40  |

## 场型图

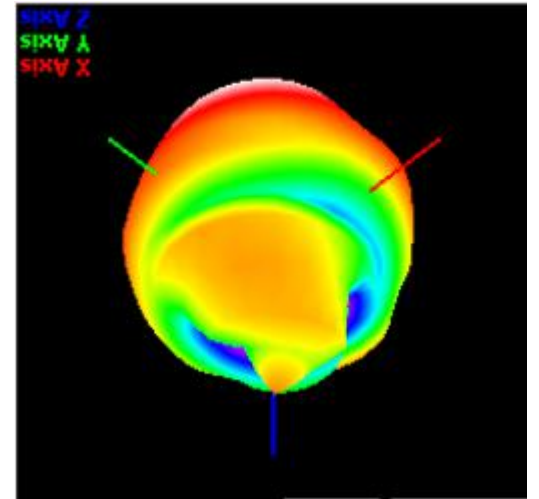
2400MHz



2450MHz



2500MHz





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