



# 2.4G ROD ANTENNA

## TECHNICAL DATA SHEET

TX2400-JZ-3RP



VERSION: 3.3      DATE: 2021-08-03

TEL: 028-61542639      WEBSITE: [WWW.ZIISOR.COM](http://WWW.ZIISOR.COM)

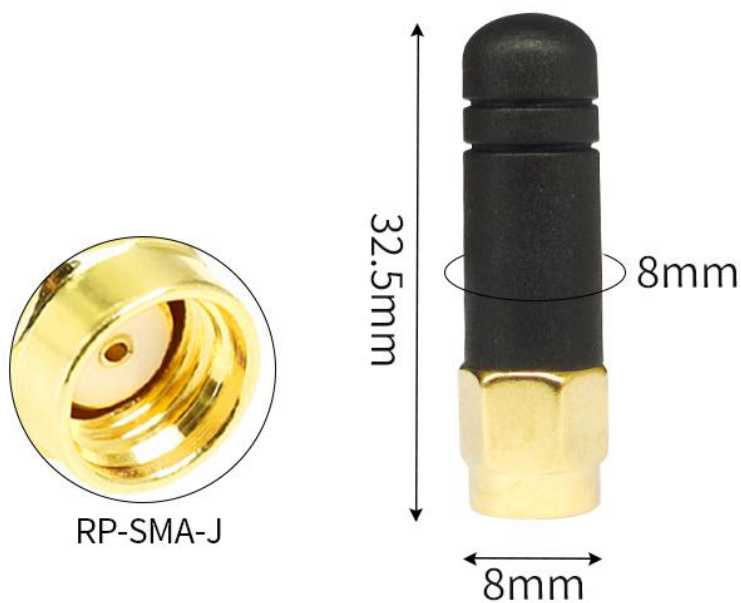
CHENGDU ZIISOR TECHNOLOGY CO., LTD.      EXPERT OF IOT ANTENNA



TX2400-JZ-3RP

| NO. | MECHANICAL SPECIFICATIONS    | VALUE           | COMMENT          |
|-----|------------------------------|-----------------|------------------|
| 01  | Part Number                  | TX2400-JZ-3RP   | 2.4G Rod Antenna |
| 02  | Material                     | TPEE            |                  |
| 03  | Material of Radiator         | Copper          |                  |
| 04  | Connector Type               | RP SMA Male     |                  |
| 05  | Antenna Colour               | Black           |                  |
| 06  | Overall Length               | 32.5mm          |                  |
| 07  | Cable Type                   | N/A             |                  |
| 08  | Cable Length                 | N/A             |                  |
| 09  | Weight                       | 3g              | ±1g              |
| NO. | ELECTRICAL SPECIFICATIONS    | VALUE           | COMMENT          |
| 01  | Frequency                    | 2.4GHz          | 2400~2500MHz     |
| 02  | Antenna Gain                 | 2.05dBi         |                  |
| 03  | Radiation type               | Omnidirectional |                  |
| 04  | Polarization                 | Linear          | Vertical         |
| 05  | Nominal Impedance            | 50Ω             |                  |
| 06  | Power Capacity               | 10W             |                  |
| 07  | S.W.R.                       | ≤1.5            |                  |
| NO. | ENVIRONMENTAL SPECIFICATIONS | VALUE           | COMMENT          |
| 01  | Operation Temperature        | -30°C ~ +75°C   |                  |
| 02  | Storage Temperature          | -30°C ~ +75°C   |                  |
| 03  | RoHS Compliant               | YES             |                  |

## MECHANICAL DRAWING



UNIT: mm

| ITEM | PART NAME | QUANTITY | MATERIAL / FINISH  |
|------|-----------|----------|--------------------|
| a    | Radome    | 1        | TPEE Black         |
| B    | Connector | 1        | RP SMA Male Gilded |

S.W.R.



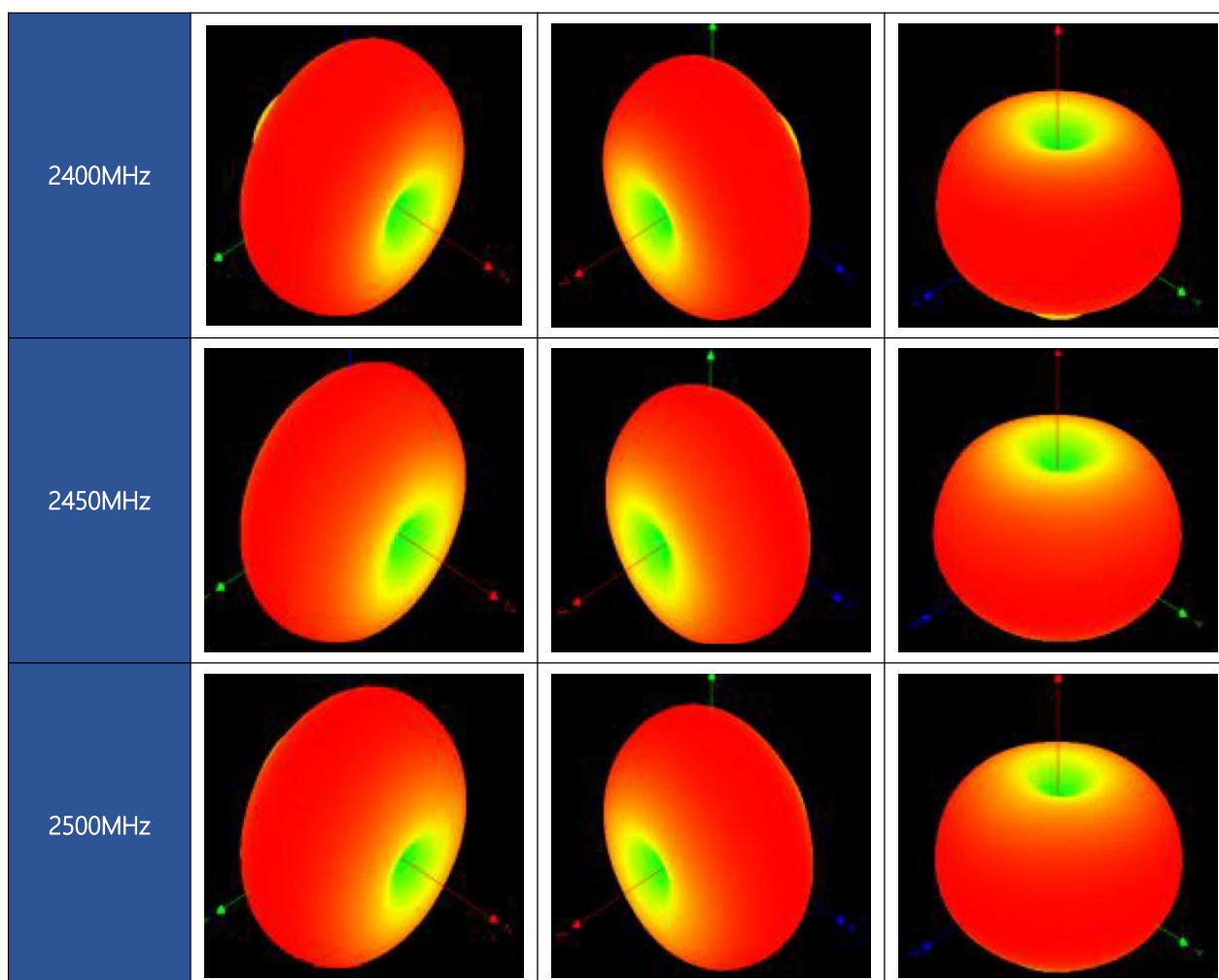
SMITH



### EFFICIENCY/GAIN TEST

| No. | Frequency<br>Hz | Efficiency<br>% | Gain<br>dBi |
|-----|-----------------|-----------------|-------------|
| 01  | 2400M           | 70.62           | 2.17        |
| 02  | 2410M           | 70.79           | 1.98        |
| 03  | 2420M           | 72.95           | 2.05        |
| 04  | 2430M           | 70.63           | 1.77        |
| 05  | 2440M           | 71.99           | 1.50        |
| 06  | 2450M           | 71.07           | 1.67        |
| 07  | 2460M           | 71.53           | 1.95        |
| 08  | 2470M           | 69.50           | 2.01        |
| 09  | 2480M           | 69.02           | 1.81        |
| 10  | 2490M           | 70.79           | 1.87        |
| 11  | 2500M           | 68.44           | 2.32        |

### RADIATION PATTERN



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## CONTACT US

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Company Name      | Chengdu Ziisor Technology Co., Ltd                                    |
| Telephone         | +86-028-61542639                                                      |
| Website           | <a href="http://www.ziisor.com">www.ziisor.com</a>                    |
| Sales Contact     | <a href="mailto:sales@ziisor.com">sales@ziisor.com</a>                |
| Technical Support | <a href="mailto:support@ziisor.com">support@ziisor.com</a>            |
| Company Address   | B5 Molding Tool Industry Park, No. 199 XiQu Avenue,<br>Chengdu, China |

