



# 5.8GHz ROB ANTENNA

## TECHNICAL DATA SHEET

TX5800-JZ-5

VERSION: 3.2 DATA: 2020-11-06

TEL: 028-61542639 WEBSITE: WWW.ZIISOR.COM

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

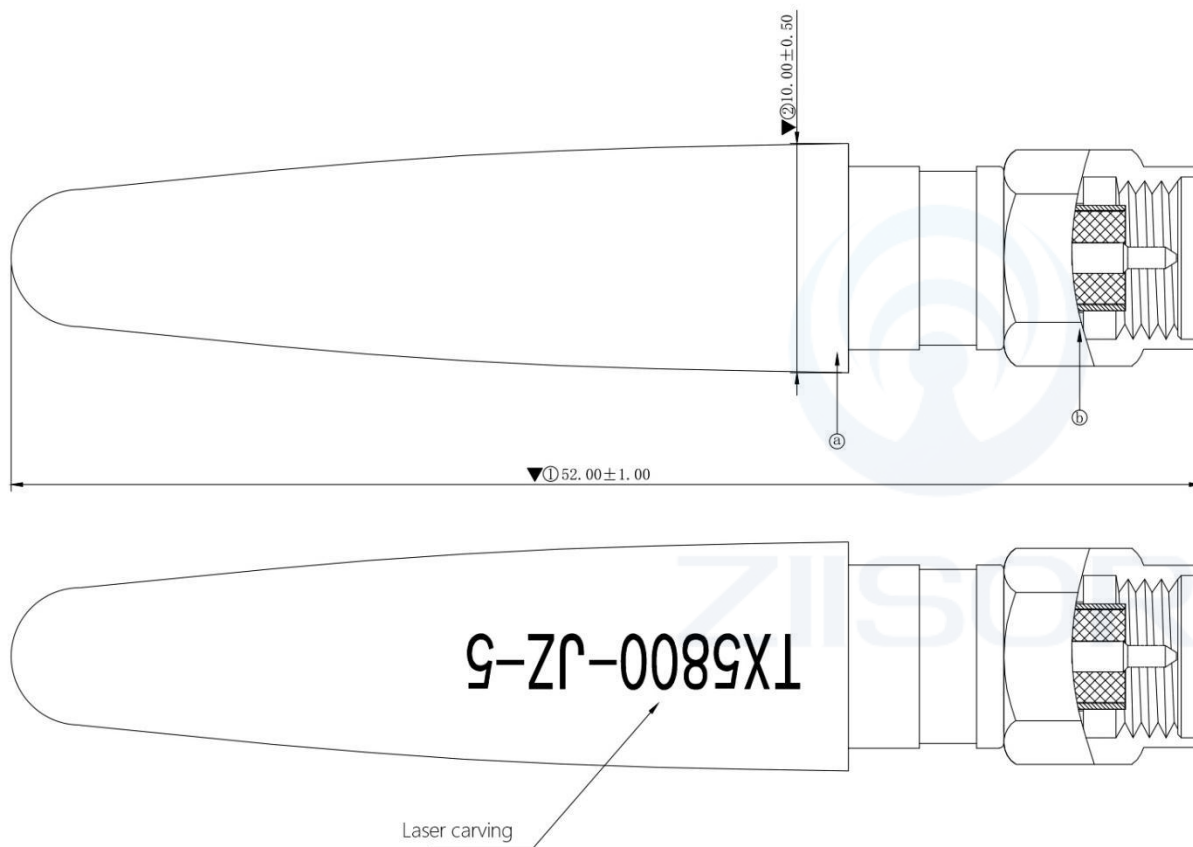


TX5800-JZ-5

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| NO. | MECHANICAL SPECIFICATIONS    | VALUE           | COMMENT          |
|-----|------------------------------|-----------------|------------------|
| 01  | Part Number                  | TX5800-JZ-5     | 5.8G Rob Antenna |
| 02  | Material                     | TPEE            |                  |
| 03  | Material of Radiator         | CU              |                  |
| 04  | Connector Type               | SMA-J           |                  |
| 05  | Antenna Colour               | Black           |                  |
| 06  | Overall Length               | 52mm            | OD10mm           |
| 07  | Cable Type                   | N/A             |                  |
| 08  | Cable Length                 | N/A             |                  |
| 09  | Weight                       | 5g              | ±1g              |
| NO. | ELECTRICAL SPECIFICATIONS    | VALUE           | COMMENT          |
| 01  | Frequency                    | 5.8GHz          | 5150~5850MHz     |
| 02  | Antenna Gain                 | 3dBi            |                  |
| 03  | Radiation type               | Omnidirectional |                  |
| 04  | Polarization                 | Linear          | Vertical         |
| 05  | Nominal Impedance            | 50Ω             |                  |
| 06  | Power Standing               | 10W             |                  |
| 07  | S.W.R.                       | ≤2.0            |                  |
| NO. | ENVIRONMENTAL SPECIFICATIONS | VALUE           | COMMENT          |
| 01  | Operation Temperature        | -30°C ~ +75°C   |                  |
| 02  | Storage Temperature          | -30°C ~ +75°C   |                  |
| 03  | RoHS Compliant               | YES             |                  |

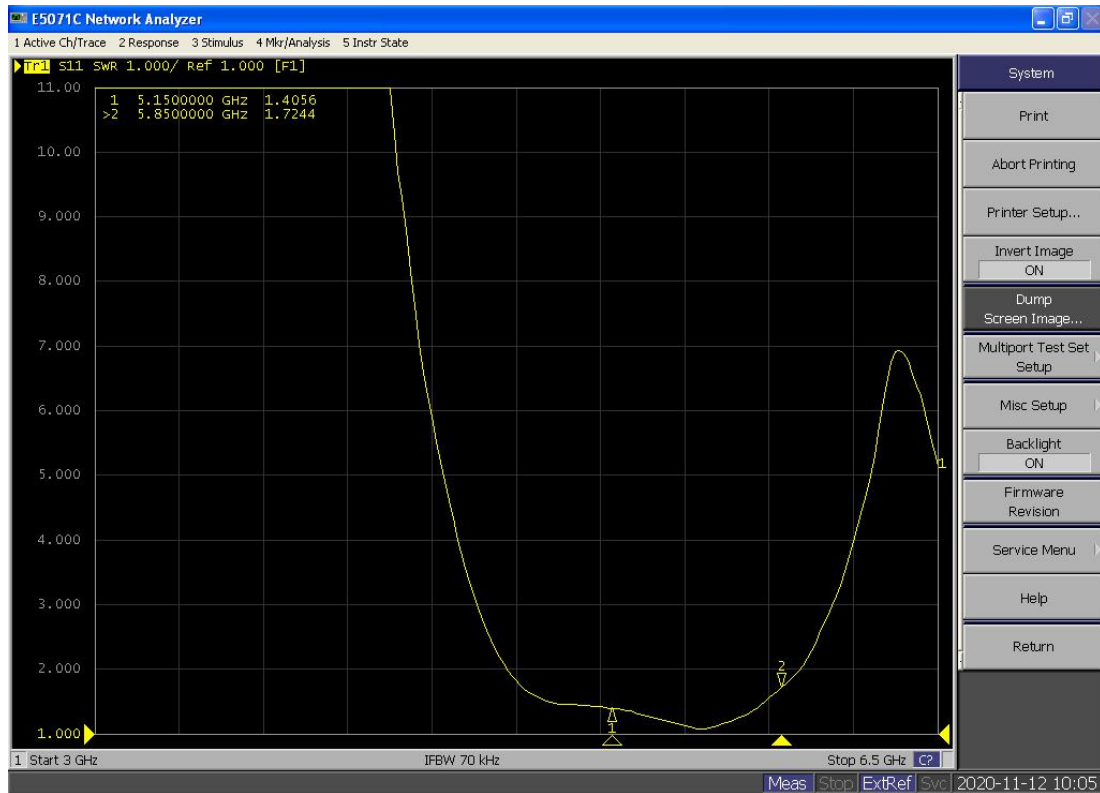
## MECHANICAL DRAWING



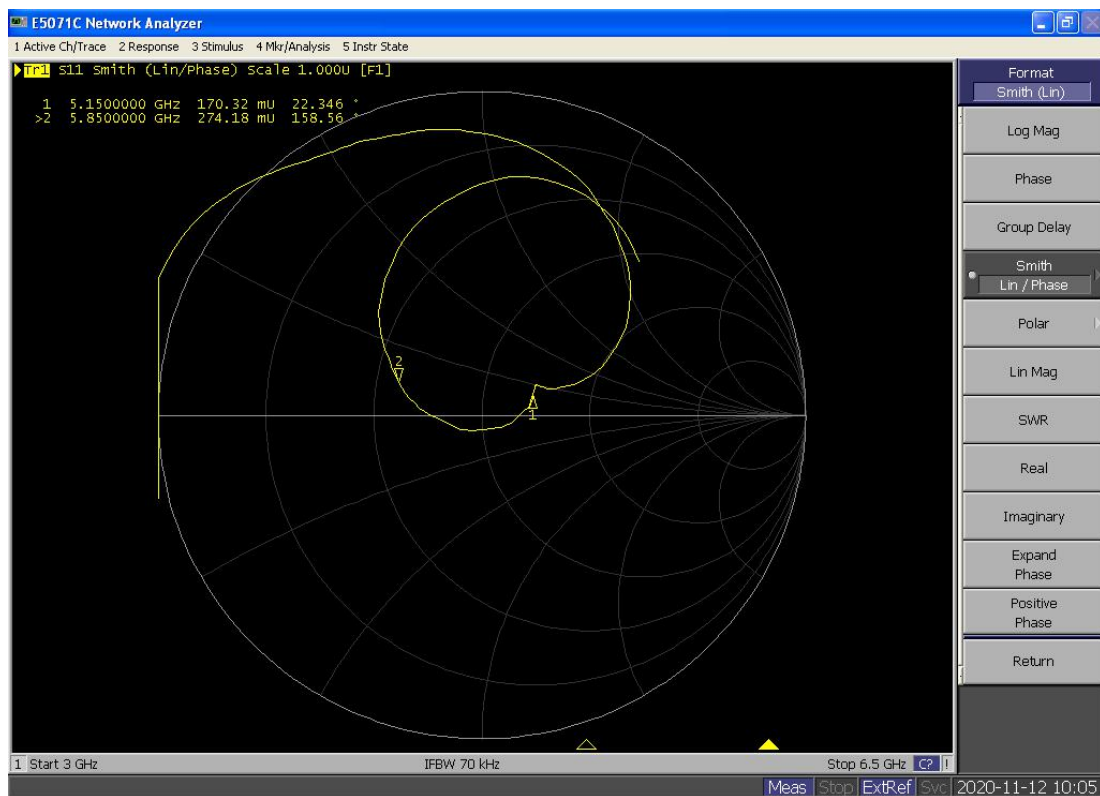
UNIT: mm

| ITEM | PART NAME | QUANTITY | MATERIAL / FINISH |
|------|-----------|----------|-------------------|
| a    | Shell     | 1        | TPEE Black        |
| b    | Connector | 1        | SMA-J Gilded      |

S.W.R.



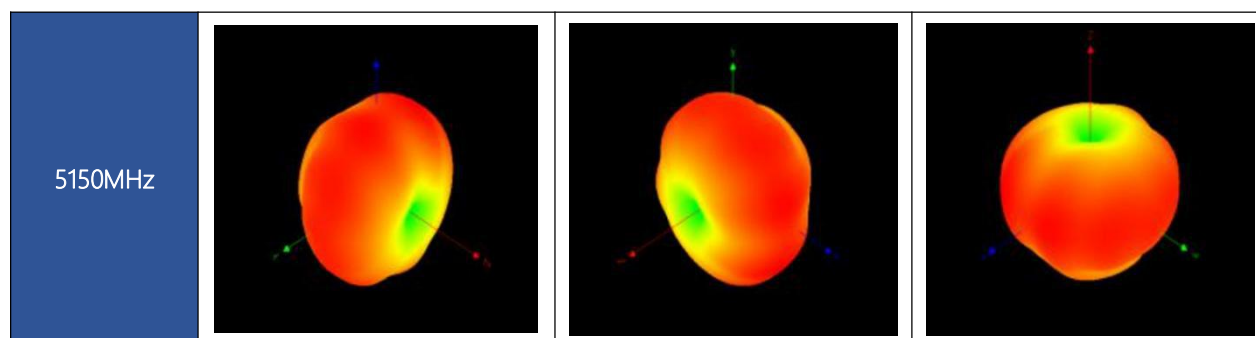
SMITH

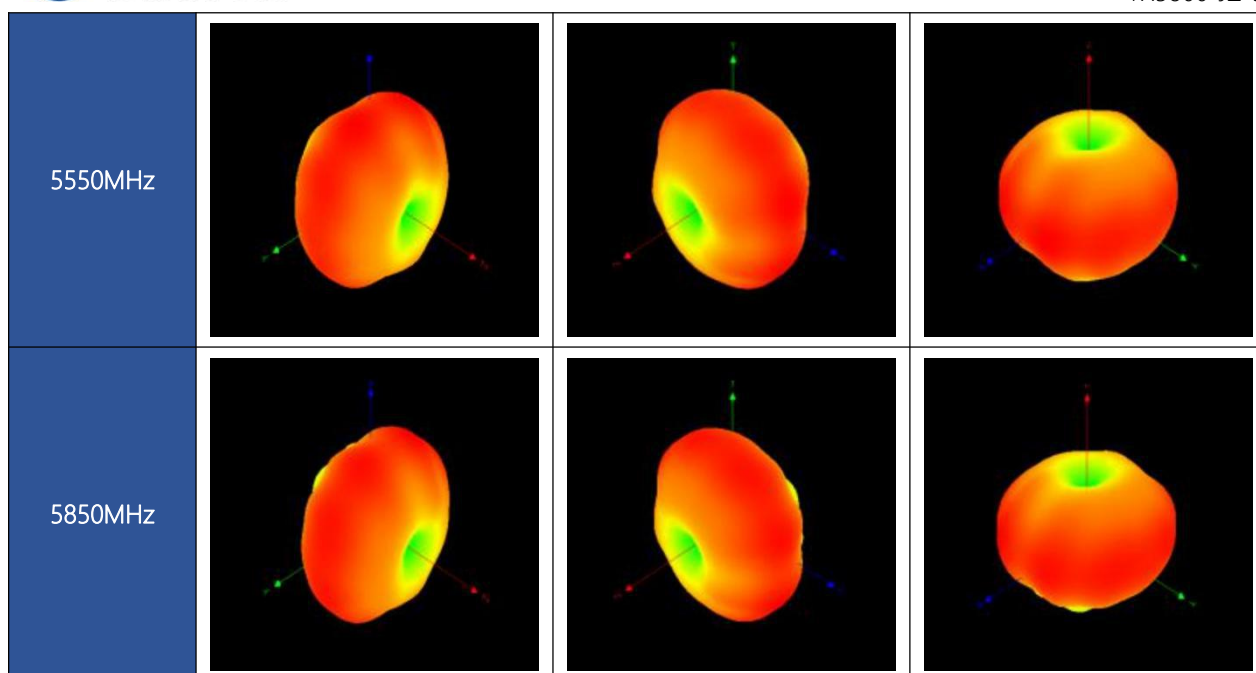


## EFFICIENCY/GAIN TEST

| No. | Frequency<br>Hz | Efficiency<br>% | Gain<br>dBi |
|-----|-----------------|-----------------|-------------|
| 01  | 5130M           | 72.04           | 1.57        |
| 02  | 5160M           | 65.68           | 1.23        |
| 03  | 5190M           | 63.11           | 1.15        |
| 04  | 5220M           | 69.62           | 1.99        |
| 05  | 5250M           | 70.17           | 1.96        |
| 06  | 5280M           | 66.21           | 1.5         |
| 07  | 5310M           | 73.56           | 2.05        |
| 08  | 5340M           | 69.07           | 2.09        |
| 09  | 5370M           | 71.47           | 2.25        |
| 10  | 5400M           | 76.5            | 2.03        |
| 11  | 5430M           | 67.8            | 1.74        |
| 12  | 5460M           | 61.29           | 1.63        |
| 13  | 5490M           | 70.91           | 2.04        |
| 14  | 5520M           | 63.45           | 1.57        |
| 15  | 5550M           | 59.82           | 1.42        |
| 16  | 5580M           | 72.79           | 2.46        |
| 17  | 5610M           | 67.45           | 2.11        |
| 18  | 5640M           | 64.82           | 1.94        |
| 19  | 5670M           | 78.72           | 2.65        |
| 20  | 5700M           | 79.95           | 2.81        |
| 21  | 5730M           | 75.7            | 2.67        |
| 22  | 5760M           | 82.04           | 3           |
| 23  | 5790M           | 83.54           | 3.01        |
| 24  | 5820M           | 76.1            | 2.61        |
| 25  | 5850M           | 85.72           | 2.94        |

## RADIATION PATTERN





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