



# 5.8GHz ROB ANTENNA

## TECHNICAL DATA SHEET

TX5800-JKD-20

VERSION: 3.2 DATA: 2020-11-06

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

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

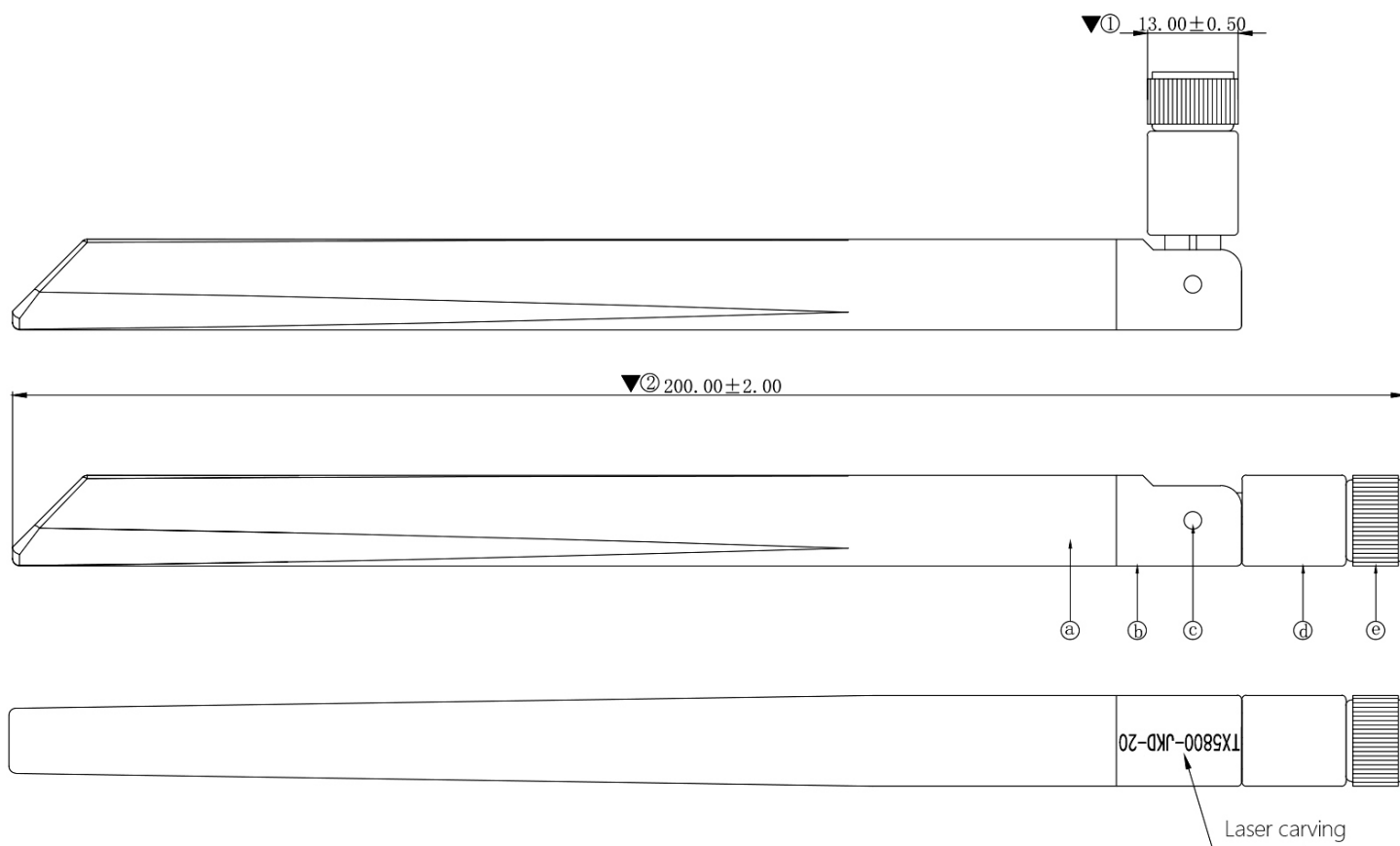


TX5800-JKD-20

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| NO. | MECHANICAL SPECIFICATIONS    | VALUE           | COMMENT          |
|-----|------------------------------|-----------------|------------------|
| 01  | Part Number                  | TX5800-JKD-20   | 5.8G Rob Antenna |
| 02  | Material                     | TPEE            |                  |
| 03  | Material of Radiator         | CU              |                  |
| 04  | Connector Type               | SMA-J           |                  |
| 05  | Antenna Colour               | Black           |                  |
| 06  | Overall Length               | 200mm           | OD13mm           |
| 07  | Cable Type                   | N/A             |                  |
| 08  | Cable Length                 | N/A             |                  |
| 09  | Weight                       | 22g             | ±2g              |
| NO. | ELECTRICAL SPECIFICATIONS    | VALUE           | COMMENT          |
| 01  | Frequency                    | 5.8GHz          | 5150~5850MHz     |
| M   | Antenna Gain                 | 5.5dBi          |                  |
| 03  | Radiation type               | Omnidirectional |                  |
| 04  | Polarization                 | Linear          | Vertical         |
| 05  | Nominal Impedance            | 50Ω             |                  |
| 06  | Power Standing               | 20W             |                  |
| 07  | S.W.R.                       | ≤3.0            |                  |
| NO. | ENVIRONMENTAL SPECIFICATIONS | VALUE           | COMMENT          |
| 01  | Operation Temperature        | -30℃ ~ +75℃     |                  |
| 02  | Storage Temperature          | -30℃ ~ +75℃     |                  |
| 03  | RoHS Compliant               | YES             |                  |

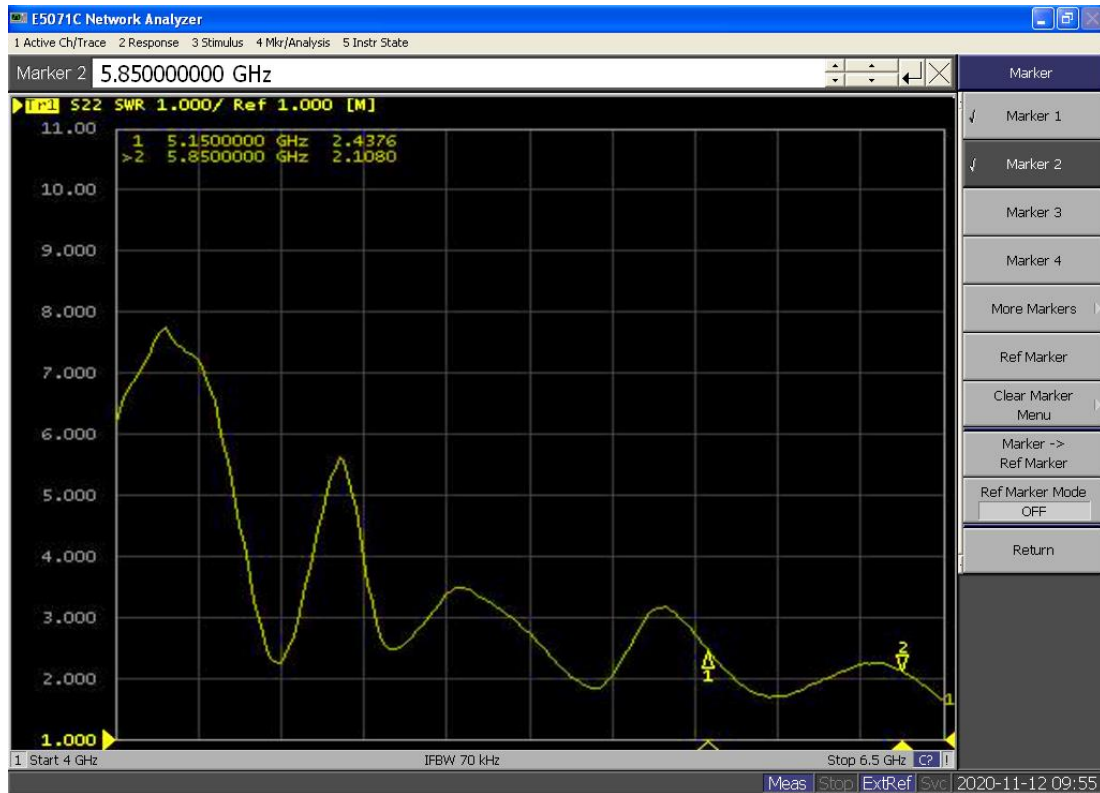
## MECHANICAL DRAWING



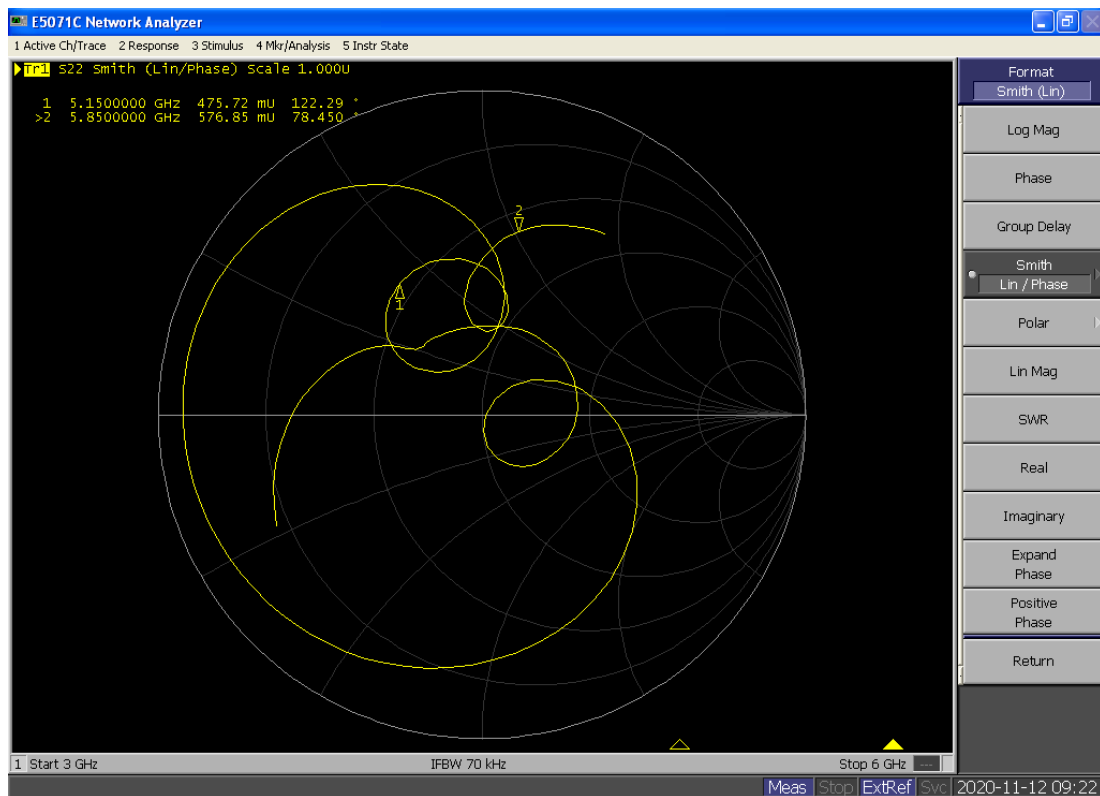
UNIT: mm

| ITEM | PART NAME    | QUANTITY | MATERIAL / FINISH   |
|------|--------------|----------|---------------------|
| a    | Shell        | 1        | TPEE Black          |
| b    | Antenna Base | 1        | PC+PBT Black        |
| c    | Rivet        | 2        | POM Black           |
| d    | Antenna Base | 1        | PC+PBT Black        |
| e    | Connector    | 1        | SMA-J Nickel plated |

S.W.R.



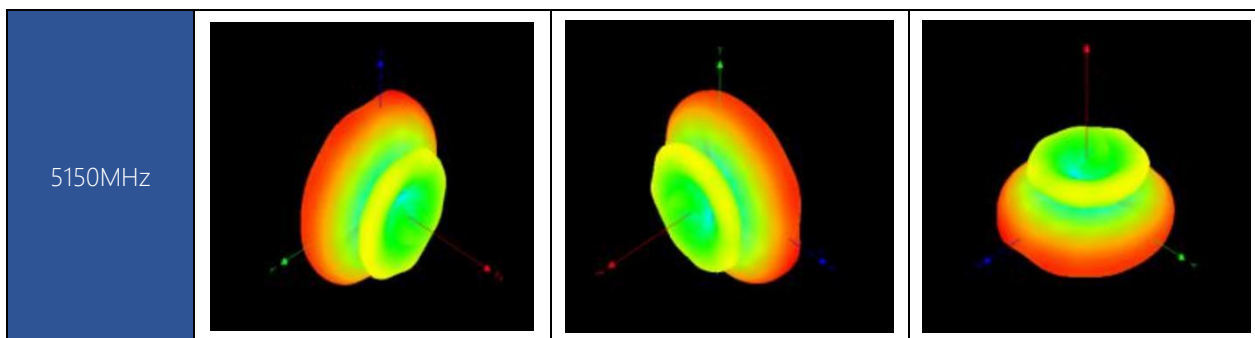
SMITH

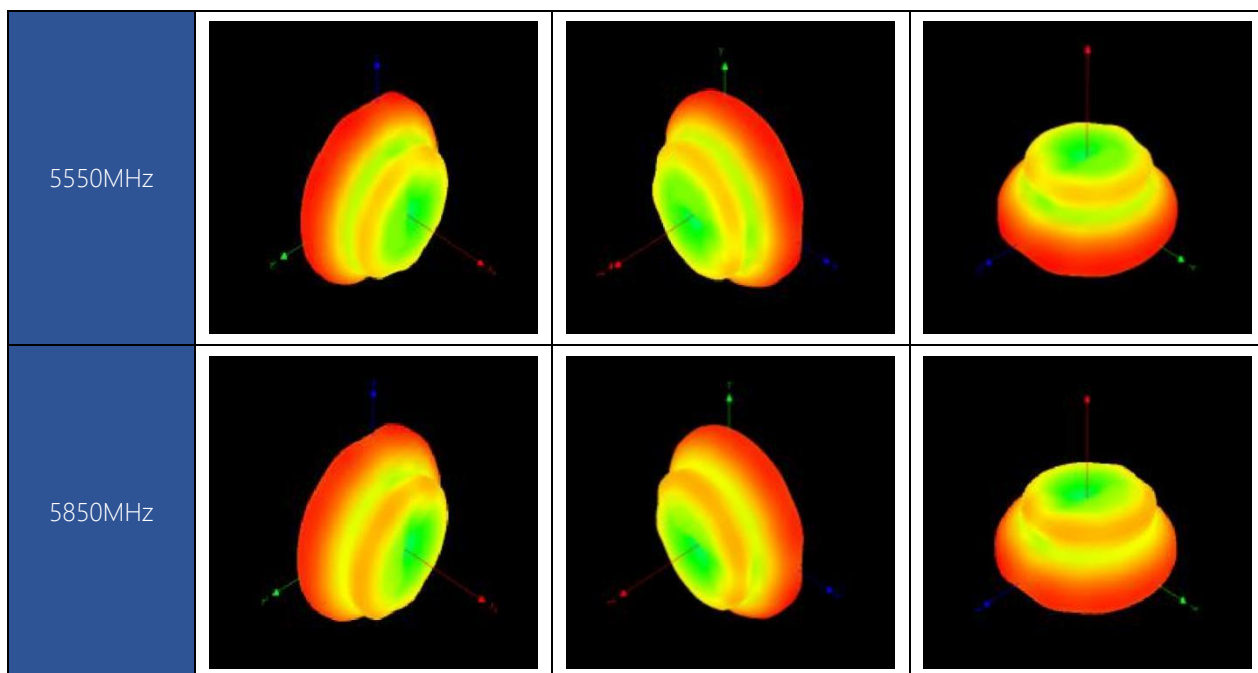


## EFFICIENCY/GAIN TEST

| No. | Frequency<br>Hz | Efficiency<br>% | Gain<br>dBi |
|-----|-----------------|-----------------|-------------|
| 01  | 5130M           | 69.70           | 4.09        |
| 02  | 5160M           | 68.23           | 4.80        |
| 03  | 5190M           | 69.50           | 4.92        |
| 04  | 5220M           | 68.23           | 4.85        |
| 05  | 5250M           | 72.44           | 5.20        |
| 06  | 5280M           | 80.54           | 5.43        |
| 07  | 5310M           | 77.62           | 5.00        |
| 08  | 5340M           | 81.66           | 5.31        |
| 09  | 5370M           | 84.33           | 5.55        |
| 10  | 5400M           | 86.10           | 5.34        |
| 11  | 5430M           | 83.37           | 4.59        |
| 12  | 5460M           | 82.60           | 4.68        |
| 13  | 5490M           | 81.66           | 5.00        |
| 14  | 5520M           | 79.80           | 4.62        |
| 15  | 5550M           | 84.53           | 4.49        |
| 16  | 5580M           | 86.90           | 4.75        |
| 17  | 5610M           | 75.86           | 4.48        |
| 18  | 5640M           | 81.47           | 4.46        |
| 19  | 5670M           | 95.05           | 5.18        |
| 20  | 5700M           | 80.54           | 4.21        |
| 21  | 5730M           | 86.90           | 4.99        |
| 22  | 5760M           | 92.47           | 5.06        |
| 23  | 5790M           | 83.18           | 4.35        |
| 24  | 5820M           | 80.35           | 4.21        |
| 25  | 5850M           | 92.68           | 5.01        |

## RADIATION PATTERN





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