

# ZN30703 Horn Antenna - Product Datasheet

**Manufacturer:** Beijing Daze Technology Co., Ltd.



## 1. Product Overview

**Model:** ZN30703  
**Type:** Horn Antenna  
**Frequency Range:** 26GHz - 40GHz

The ZN30703 Horn Antenna is a wide band antenna designed for high-frequency applications. It offers wide bandwidth, lightweight construction, and low VSWR, making it suitable for high-frequency measurements, especially in terms of antenna gain and correction factor performance.

## 2. Technical Specifications

| Parameter               | Specification                               |
|-------------------------|---------------------------------------------|
| Frequency Range         | 26GHz - 40GHz                               |
| Impedance               | 50Ω (K-type connector)                      |
| Gain                    | (Refer to Gain and Correction Factor Table) |
| Antenna Factor          | (Refer to Gain and Correction Factor Table) |
| VSWR                    | less than 1.5                               |
| 3dB Beamwidth (E-plane) | (Refer to 3dB Beamwidth Table)              |
| 3dB Beamwidth (H-plane) | (Refer to 3dB Beamwidth Table)              |
| Front-to-Back Ratio     | > 25dB                                      |
| Polarization Isolation  | > 25dB                                      |
| Maximum Power Handling  | 50W                                         |
| Operating Orientation   | Horizontal/Vertical                         |
| Antenna Dimensions      | 59 x 71 x 200 mm                            |
| Antenna Weight          | 0.4kg                                       |

### 3. Standard Accessories

| Item                        | Quantity |
|-----------------------------|----------|
| ZN30703 Antenna (Main Unit) | 1 unit   |
| Antenna Connector           | 1 unit   |
| Tripod (Optional)           | 1 unit   |
| Test Cable (Optional)       | 1 unit   |
| User Manual                 | 1 copy   |
| Certificate of Conformity   | 1 copy   |

### 4. Gain and Correction Factor Table

| Frequency (GHz) | Gain (dBi) | Antenna Factor (dB/m) |
|-----------------|------------|-----------------------|
| 26.50           | 23.40      | 35.27                 |
| 27.85           | 23.62      | 35.49                 |
| 29.20           | 23.85      | 35.67                 |
| 30.55           | 24.08      | 35.83                 |
| 31.90           | 24.30      | 35.99                 |
| 33.25           | 24.50      | 36.15                 |
| 34.60           | 24.67      | 36.32                 |
| 35.95           | 24.82      | 36.50                 |
| 37.30           | 24.95      | 36.69                 |
| 38.65           | 25.06      | 36.89                 |
| 40.00           | 25.15      | 37.10                 |

### 5. 3dB Beamwidth Table

| Frequency (GHz) | E-plane Beamwidth (degrees) | H-plane Beamwidth (degrees) |
|-----------------|-----------------------------|-----------------------------|
| 26.50           | 8.5                         | 10.38                       |
| 33.15           | 7.06                        | 8.49                        |

| Frequency (GHz) | E-plane Beamwidth (degrees) | H-plane Beamwidth (degrees) |
|-----------------|-----------------------------|-----------------------------|
| 40.00           | 7.06                        | 7.48                        |

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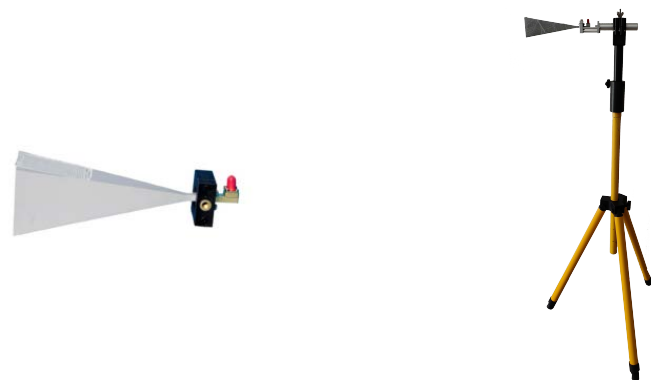
## 6. Operating Instructions

1. **Installation:** Handle the antenna with care to avoid impact or damage.
  2. **Storage:** Store the antenna in a non-corrosive environment.
  3. **Connection:** Use the provided test cable to connect the antenna to the equipment.
  4. **Orientation:** The antenna can be used in both horizontal and vertical orientations.
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## 7. Warranty

- **Warranty Period:** 18 months from the date of shipment.
  - **Warranty Conditions:** Covers defects in materials and workmanship under normal usage and transportation conditions.
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## 8. Product Photo



**Contact Information:**  
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