YAGI 7 ELEMENT 11dBi 890-960 MHz
N FEMALE CONN WELDED ELEMENT

Pole clamp, Zinc plated for 3" O.D. pole max

Aluminum tubing & elements
Powder coat black

N-Connector Female

2x End plug
Polyethylene black

7.27

30.00

1.18

All dimensions are in inches

Issue: 0710
In the effort to improve our products, we reserve the right to make changes judged to be necessary.
ELECTRICAL SPECIFICATIONS

- **Frequency**: 890-960 MHz
- **Nominal Impedance**: 50 Ω
- **VSWR**: 2:1 Max
- **Gain (Radiating element)**: 11 dBi ± .5 dB

**Radiation Pattern**
- **-3 dB beamwidth**
  - Horizontal Plane: 54 ° ± 2 °
  - Vertical Plane: 45 ° ± 2 °
- **Side lobe level**
  - Horizontal Plane: -15 dB
  - Vertical Plane: -15 dB
- **Cross Polarization level**
  - Horizontal Plane: -15 dB Typ
  - Vertical Plane: -15 dB Typ
- **Front to back ratio**: -15 dB min

- **Polarization**: Vertical or Horizontal
- **Power withstanding**: 300 W
- **Connector type**: N-Female

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YAE5900W
Series: ANTENNA

MECHANICAL SPECIFICATIONS

- Color: Powder coat black
- Weight: 720 g
- Wind-loading: 164 Km/h & w/2.5mm radial ice
- Overall length: 750 mm
- Fixing system: Pole clamp mm
  - Azimuth adjustment: 360°

ENVIRONMENTAL SPECIFICATIONS

- Operating temperature: -40°/+85° C
- Temperature:
  - Stationary: -40°/+85° C (1),(2)
  - Cyclic: -40°-+55° Rate 5°C/min (3)
- Humidity:
  - Stationary: 93% @ +30° C (4)
  - Cyclic: 95% @ +30° C (5)
- Rain: 15mm/min 30 min (6)
- Salt mist: 7 Days (7)
- Industrial atmosphere: 4 Days (8)
- Vibration
  - Sinusoidal: Displacement: 3mm-2/9Hz
  - Acceleration: 10 m/s²-9/200Hz
  - Random: Level (ASD): 1M²/S³-10/200Hz
  - 0,3 m²/s³-200/2000Hz
- Shocks: 100 m/s² (11)
- Drop test: 1.0 m (12)

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TESTS ENVIRONMENTAL
Test report no 2002.46.8550 Rev -

(1) Test following IEC 68-2-1 Meth Aa Duration: 16 hours @ -40C
(2) Test following IEC 68-2-2 Meth Ba Duration: 16 hours @ +85C
(3) Test following IEC 68-2-14 Meth Nb Temperature changing rate:
    0,5°C/min Time at each temperature: 3 hours Number of cycles: 6
(4) Test following IEC 68-2-56 Temperature: +30°C Relative humidity: 93%
    Duration: 21 days
(5) Test following IEC 68-2-30 Variant 1 Temperature: +30°C Relative
    humidity: 95% Number of cycles: 6
(6) Test following IEC 68-2-18 Rb: impacting water method 2.2 Flow rate:
    15mm/min Duration: 30 min
(7) Test following IEC 68-2-11 Duration: 7 days Concentration: 5g/l-PH=7±0.5
(8) Test following DIN 41640 Concentration: H2S: 1ppm, SO2: 10 ppm
    Duration: 4 days Temperature: 25°C RH: 75%
(9) Test following IEC 68-2-6 Displacement: 3mm-2/9Hz Acceleration: 10
    m/s²-9/200Hz Number of directions:3, 5 double sweeps in each directions
    at a sweep rate of 1 octive/min
(10) Test following IEC 68-2-6 Displacement: Level (ASD): 1M²/S³-10/200Hz
    0,3 m²/s³-200/2000Hz Duration: 30 min per direction Number of
    directions: 3
(11) Test following IEC 68-2-29 Meth Eb Level: 100m/s2Duration: 11ms
    Shape: half sine pulse Number of bumps:500 per direction: 6
(12) Test following IEC 68-2-32 Height:1.0m Duration: 1 fall for each face

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CURVES

Horizontal plane

Vertical plane

VSWR

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