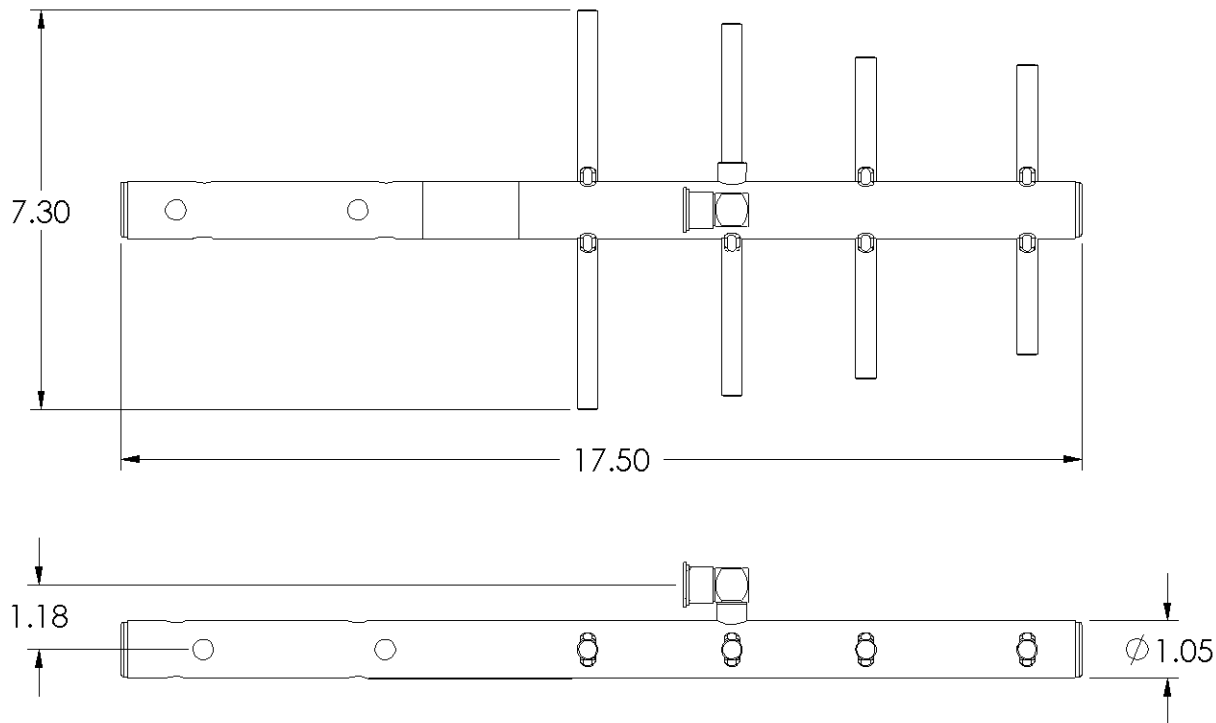
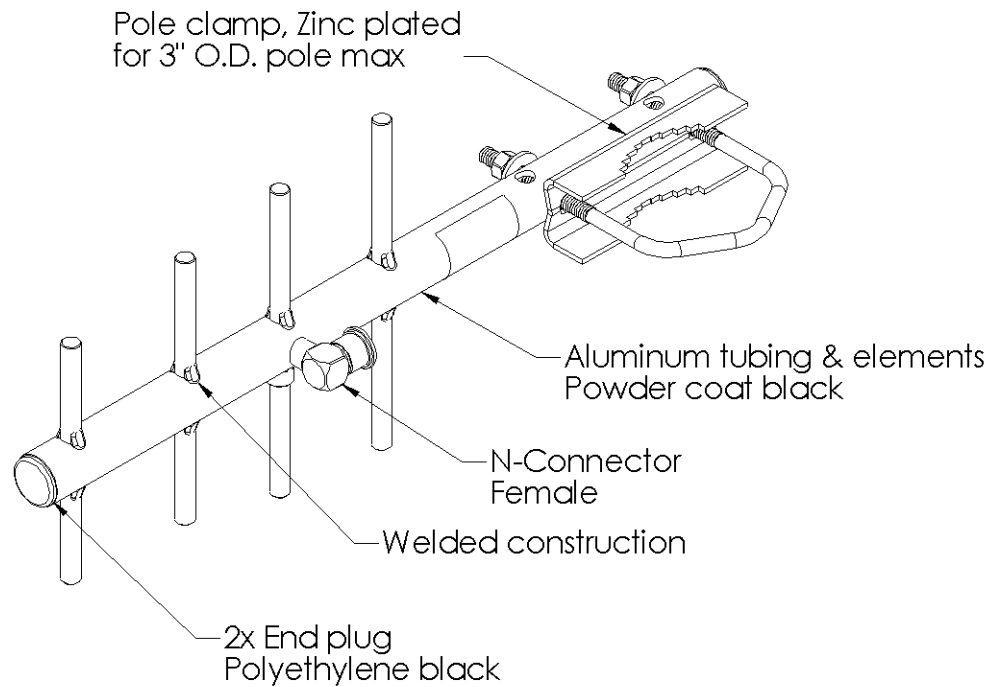


**YAGI 4 ELEMENT 8dBi 890-960 MHz**  
**N FEMALE CONN WELDED ELEMENTS**

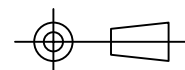
**YA6900W**  
Series : ANTENNA



All dimensions are in inches

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In the effort to improve our products, we reserve the right to make changes judged to be necessary.



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### **ELECTRICAL CHARACTERISTICS**

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| Frequency : .....                | <b>890-960 GHz</b>                                                       |
| Nominal Impedance : .....        | <b>50 <math>\Omega</math></b>                                            |
| VSWR : .....                     | <b>2:1 Max</b>                                                           |
| Gain (Radiating element) : ..... | <b>8 dBi <math>\pm</math> .5 dB</b>                                      |
| Radiation Pattern                |                                                                          |
| -3 dB beamwidth                  |                                                                          |
| Horizontal Plane :               | <b>86 <math>^{\circ}</math> <math>\pm</math> 2 <math>^{\circ}</math></b> |
| Vertical Plane :                 | <b>58 <math>^{\circ}</math> <math>\pm</math> 2 <math>^{\circ}</math></b> |
| Side lobe level                  |                                                                          |
| Horizontal Plane :               | <b>-15 dB</b>                                                            |
| Vertical Plane :                 | <b>-15 dB</b>                                                            |
| Cross Polarization level         |                                                                          |
| Horizontal Plane :               | <b>-15 dB Typ</b>                                                        |
| Vertical Plane :                 | <b>-15 dB Typ</b>                                                        |
| Front to back ratio : .....      | <b>-15 dB min</b>                                                        |
| Polarization : .....             | <b>Vertical or Horizontal</b>                                            |
| Power withstanding : .....       | <b>300 W</b>                                                             |
| Connector type : .....           | <b>N-Female</b>                                                          |

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### **TESTS ENVIRONMENTAL**

Test report no 2002.46.8550 Rev -

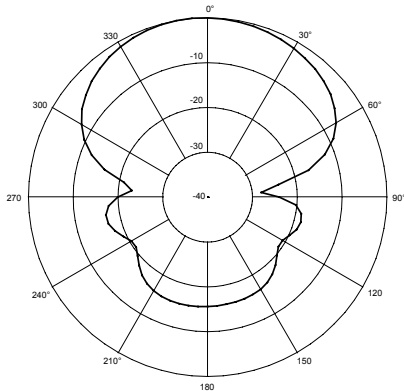
- (1) Test following IEC 68-2-1 Meth Aa Duration: 16 hours @ -40C**
- (2) Test following IEC 68-2-2 Meth Ba Duration: 16 hours @ +85C**
- (3) Test following IEC 68-2-14 Meth Nb Temperature changing rate:  
0,5°C/min Time at each temperature: 3 hours Number of cycles: 6**
- (4) Test following IEC 68-2-56 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<sup>±0.5</sup>**
- (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/s<sup>2</sup>-9/200Hz Number of directions:3, 5 double sweeps in each directions  
at a sweep rate of 1 octave/min**
- (10) Test following IEC 68-2-6 Displacement: Level (ASD): 1M<sup>2</sup>/S<sup>3</sup>-10/200Hz  
0,3 m<sup>2</sup>/s<sup>3</sup>-200/2000Hz Duration: 30 min per direction Number of  
directions: 3**
- (11) Test following IEC 68-2-29 Meth Eb Level: 100m/s<sup>2</sup>Duration: 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**

**YAGI 4 ELEMENT 8dBi 890-960 MHz**  
**N FEMALE CONN WELDED ELEMENTS**

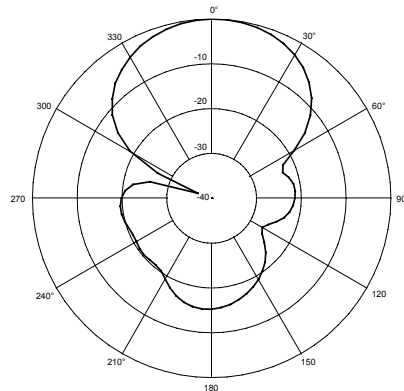
**YA6900W**  
Series : ANTENNA

## CURVES

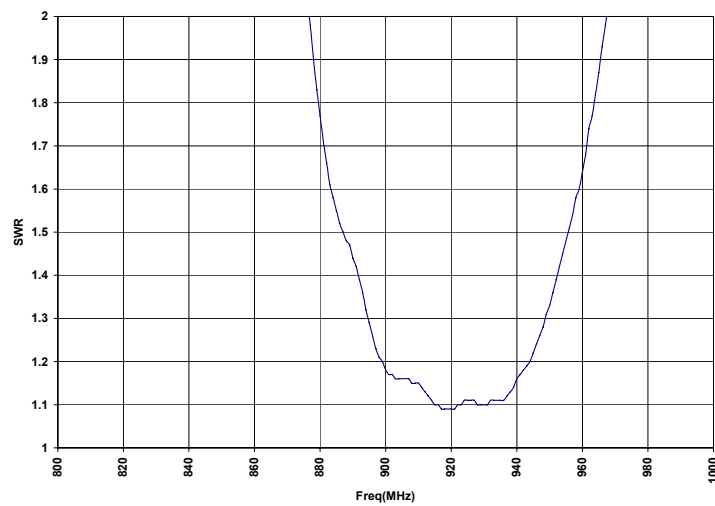
**Horizontal plane**



**Vertical plane**



**VSWR**



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