

**Description: 806-866 MHz 8 dBi 4-Element Yagi, Black, All-Welded, N-female connector**

**Series: Yagi**

**PART NUMBER: YA6800W**



### Features:

- 806-866 MHz
- Gain 8.5 dBi
- N connector
- 4 Elements
- All-Welded Aluminum
- Black Powder Coat
- Wind loading 164 km/h = 100 MPH

### Applications:

- Harsh Environmental Conditions
- Highly Directional
- Remote Monitoring / Scada
- Mining, Industrial
- Oil / Gas
- Utility and SmartGrid
- Wastewater, Irrigation
- Municipal / Transportation

All dimensions are in mm / inches

Issue: 1831

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

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### ELECTRICAL SPECIFICATIONS

|                                       |                 |
|---------------------------------------|-----------------|
| Antenna Type                          | Yagi-Uda        |
| Frequency                             | 806-866 MHz     |
| Nominal Impedance                     | 50 $\Omega$     |
| VSWR                                  | 2:1 Max         |
| Gain                                  | 8.5 dBi         |
| Efficiency                            | 85%             |
| Horizontal / Vertical -3 dB Bandwidth | 83 ° / 55 °     |
| Horizontal / Vertical Side Lobe Level | -12 dB / -15 dB |
| Front to Back Ratio                   | -16 dB min      |
| Polarization                          | Linear          |
| Power Withstanding                    | 300 W           |

### MECHANICAL SPECIFICATIONS

|                    |                   |
|--------------------|-------------------|
| Overall Length     | 445 mm            |
| Weight             | 470 g             |
| Antenna Color      | Powder Coat Black |
| Antenna Material   | Aluminum          |
| Connector type     | N Female          |
| Fixing System      | Pole Clamp        |
| Azimuth Adjustment | 360 °             |

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## ENVIRONMENTAL SPECIFICATIONS

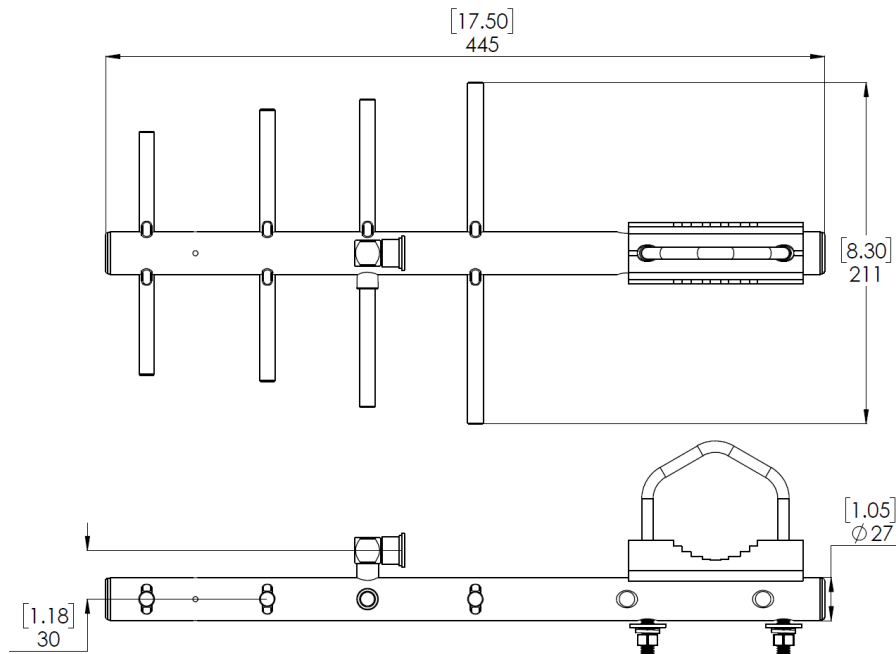
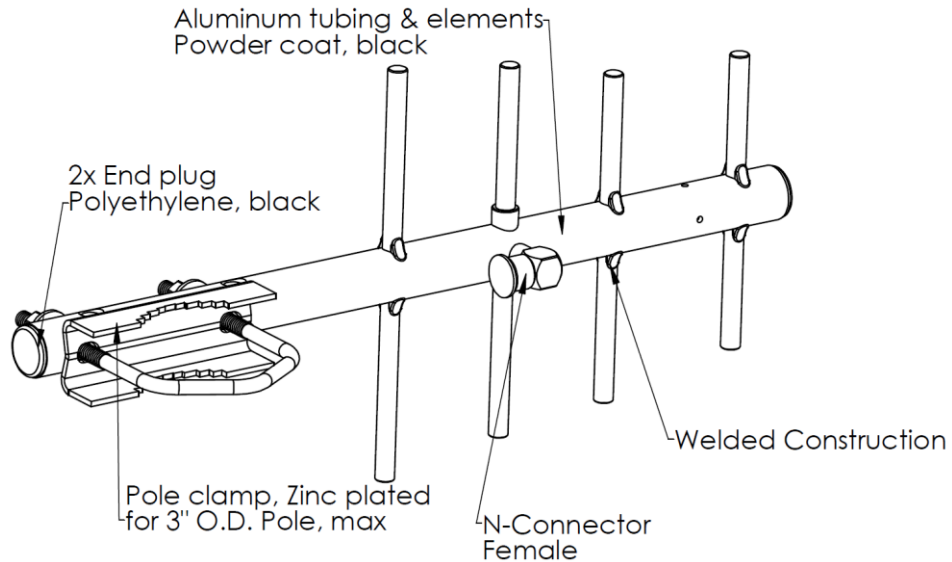
|                                   |  |
|-----------------------------------|--|
| Operating Temperature             | -40 to +85 ° C   |
| Storage Temperature               | -40 to +85 ° C   |
| Cyclic                            | -40 to +55 ° C (5 ° C/min)   |
| Wind-loading                      | 164 km/h / 100 mi/h  |
| Humidity                          | 93% @ +30 ° C  |
| Cyclic                            | 95% @ +30 ° C  |
| Rain                              | 15 mm/min (30 min)   |
| Salt Mist                         | 7 Days   |
| Industrial Atmosphere             | 4 Days   |
| Sinusoidal Vibration Displacement | 3 mm - 2/9 Hz  |
| Sinusoidal Vibration Acceleration | 10 m/s <sup>2</sup> - 9/200 Hz   |
| Random Vibration Level (ASD)      | 1 m <sup>2</sup> /s <sup>2</sup> - 10/200 Hz<br>0.3 m <sup>2</sup> /s <sup>3</sup> - 200/2000 Hz |
| Shocks                            | 100 m/s <sup>2</sup>   |
| Drop Test                         | 1.0 m  |
| RoHS Compliant                    | Yes  |

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MECHANICAL DRAWING



Unit: mm [in]

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## TEST SETUP



Antenna mounted vertically on post with  
insulator on driven element facing up

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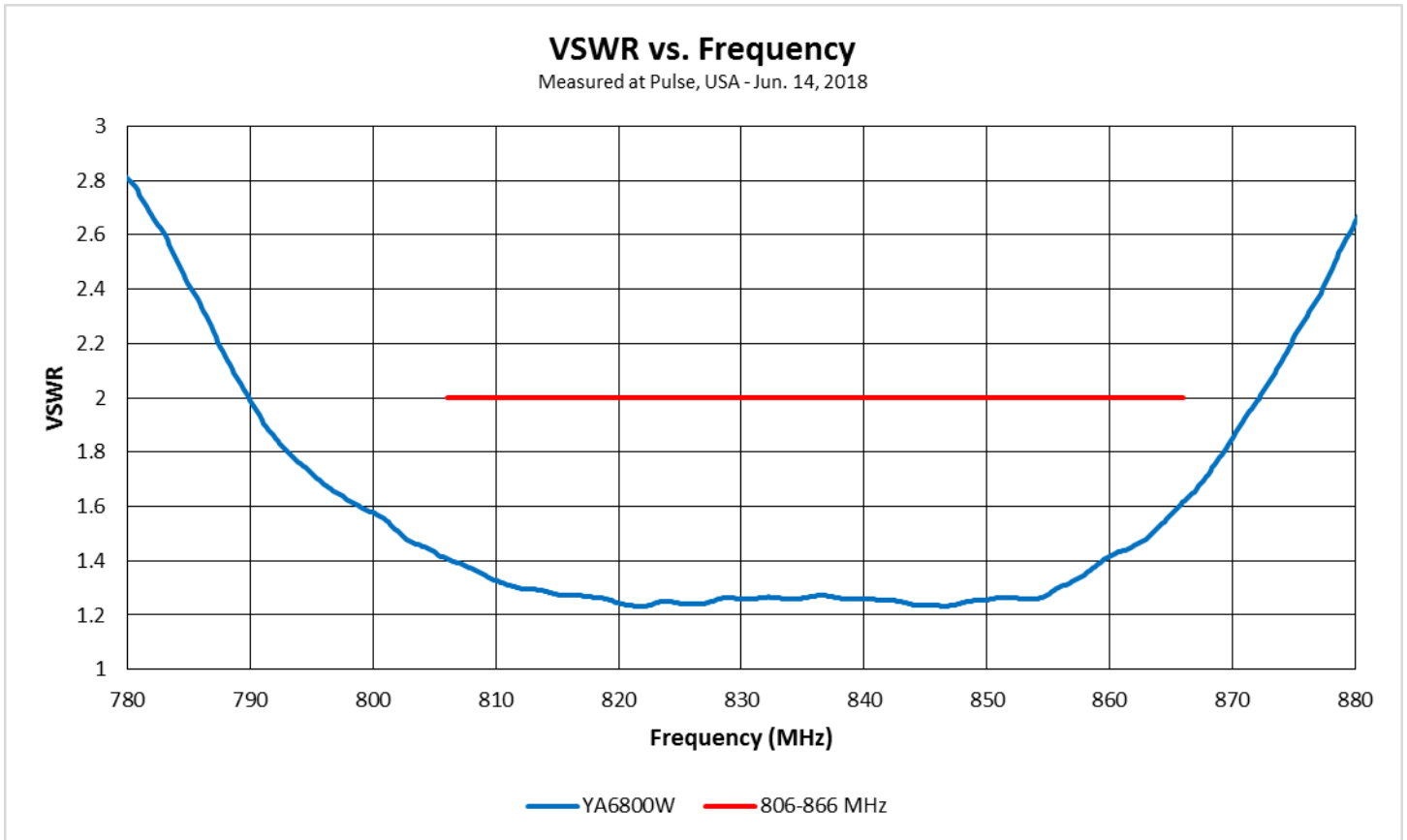
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CHARTS



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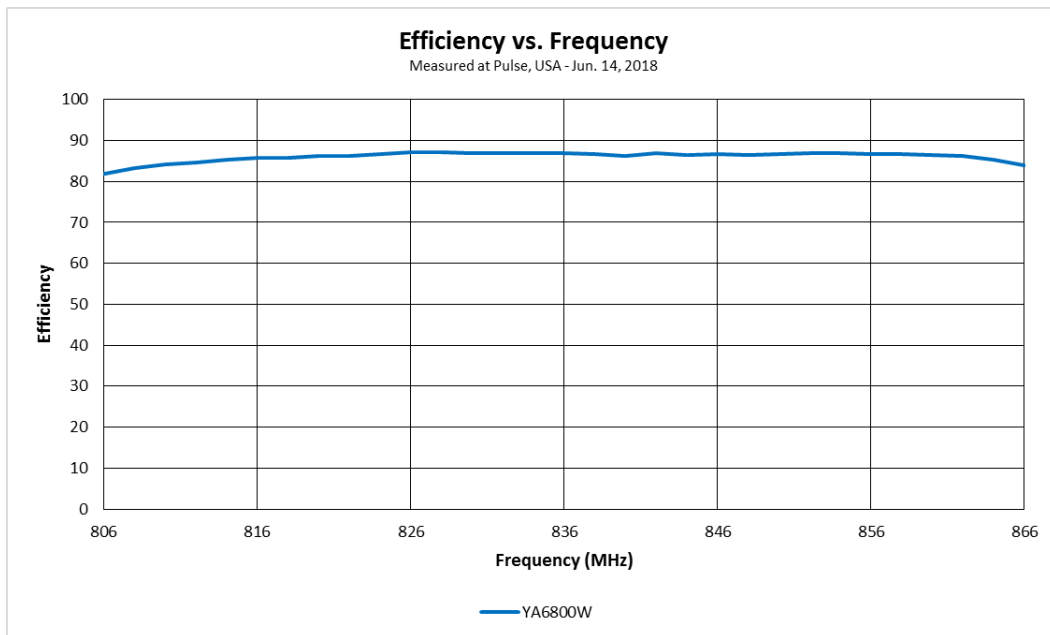
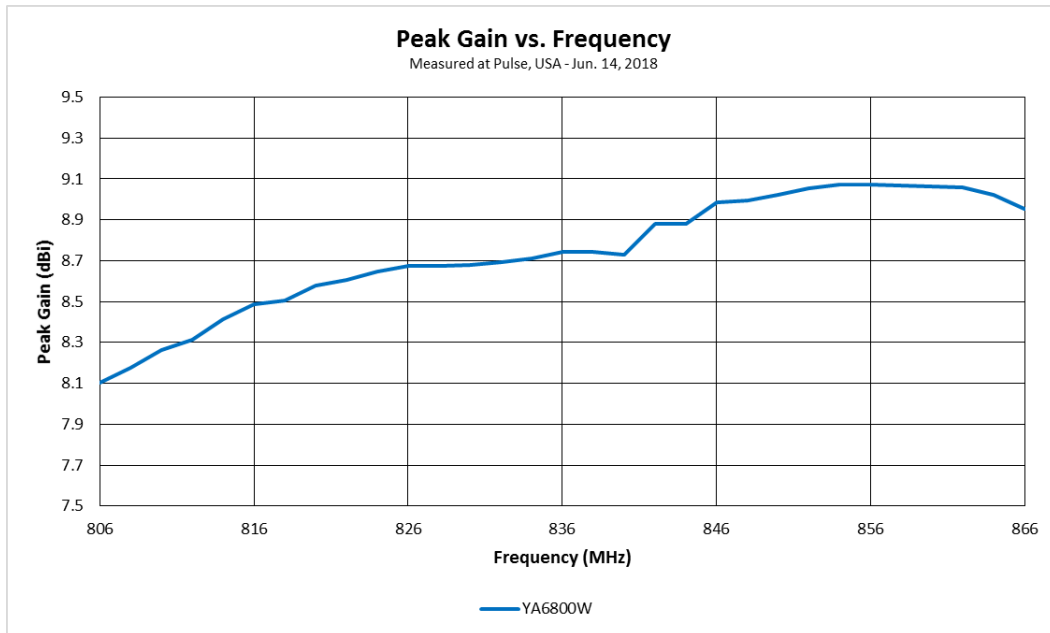
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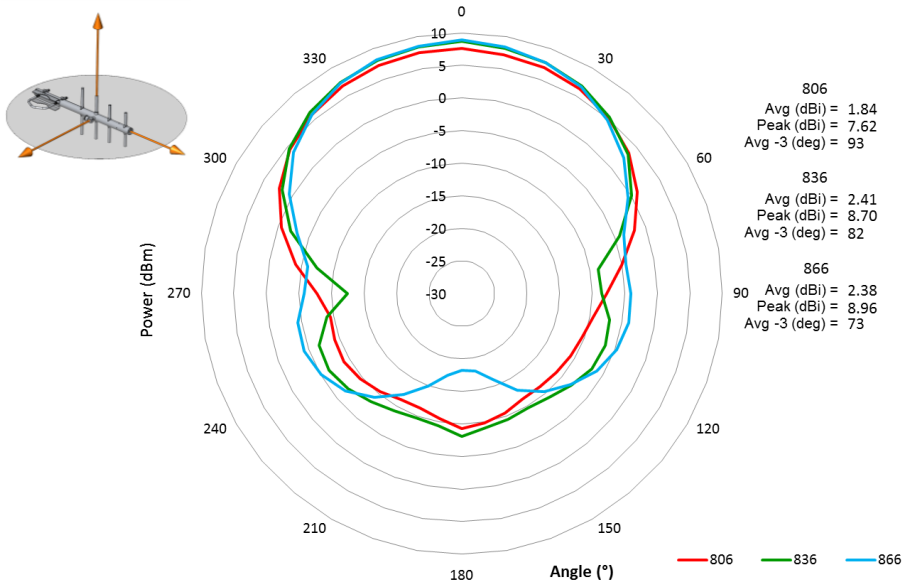
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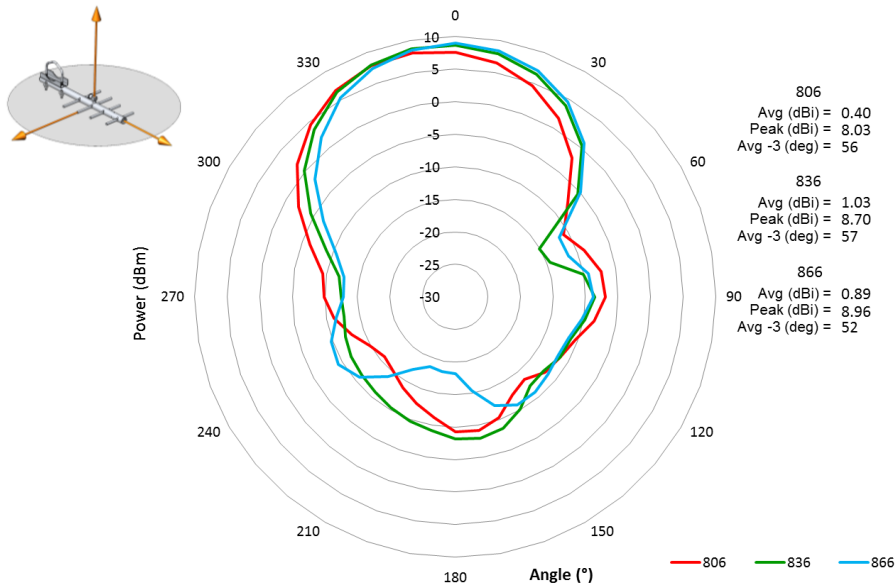
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CHARTS

Azimuth/Horizontal Plane



Elevation/Vertical Plane



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## PACKAGING

1 cardboard box containing:

- 1 antenna
- 1 cardboard partition
- 1 plastic bag containing:
  - 1 bracket kit
  - 1 instructions for antenna installation
  - 1 warning regarding electrocution hazards
- 1 bag of air

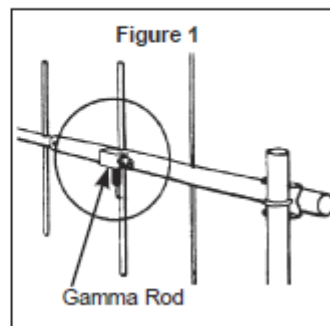
1 label on cardboard box with part number, date code, characteristics

## ASSEMBLY

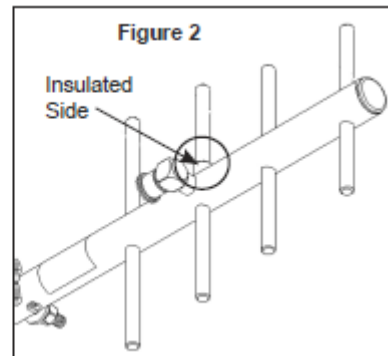
### INSTALLATION INSTRUCTIONS

#### PRE-INSTALLATION

- Larsen Yagis are designed to mount vertically.
- YA3 Series (UHF): Gamma rod must be facing down for weather considerations (see Figure 1).



- YA5 and YA6 Series: The insulated side of the driven element should be facing up (see Figure 2).



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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