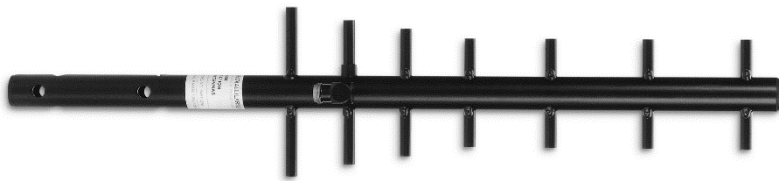


**Description: 806-866 MHz 11 dBi 7-Element Yagi, Black, All-Welded, N-female connector**

**Series: Yagi**

**PART NUMBER: YA5800W**



### Features:

- 806-866 MHz
- Gain 10.8 dBi
- N connector
- 7 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: 1834

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

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Pulse (Suzhou) Wireless Products Co, Inc.  
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Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



Series: Yagi

Description: 806-866 MHz 11 dBi 7-Element  
Yagi, Black, All-Welded, N-female connector

PART NUMBER: YA5800W

### ELECTRICAL SPECIFICATIONS

Antenna Type	Yagi-Uda
Frequency	806-866 MHz
Nominal Impedance	50 $\Omega$
VSWR	2:1 Max
Gain	10.8 dBi
Horizontal / Vertical -3 dB Bandwidth	54 ° / 44 °
Horizontal / Vertical Side Lobe Level	-12 dB / -16 dB
Front to Back Ratio	-14 dB min
Polarization	Linear
Power Withstanding	300 W

### MECHANICAL SPECIFICATIONS

Overall Length	794 mm
Weight	702 g
Antenna Color	Powder Coat Black
Antenna Material	Aluminum
Connector type	N Female
Fixing System	Pole Clamp
Azimuth Adjustment	360 °

Issue: 1834

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Series: Yagi

Description: 806-866 MHz 11 dBi 7-Element  
Yagi, Black, All-Welded, N-female connector

**PART NUMBER: YA5800W**

## ENVIRONMENTAL SPECIFICATIONS

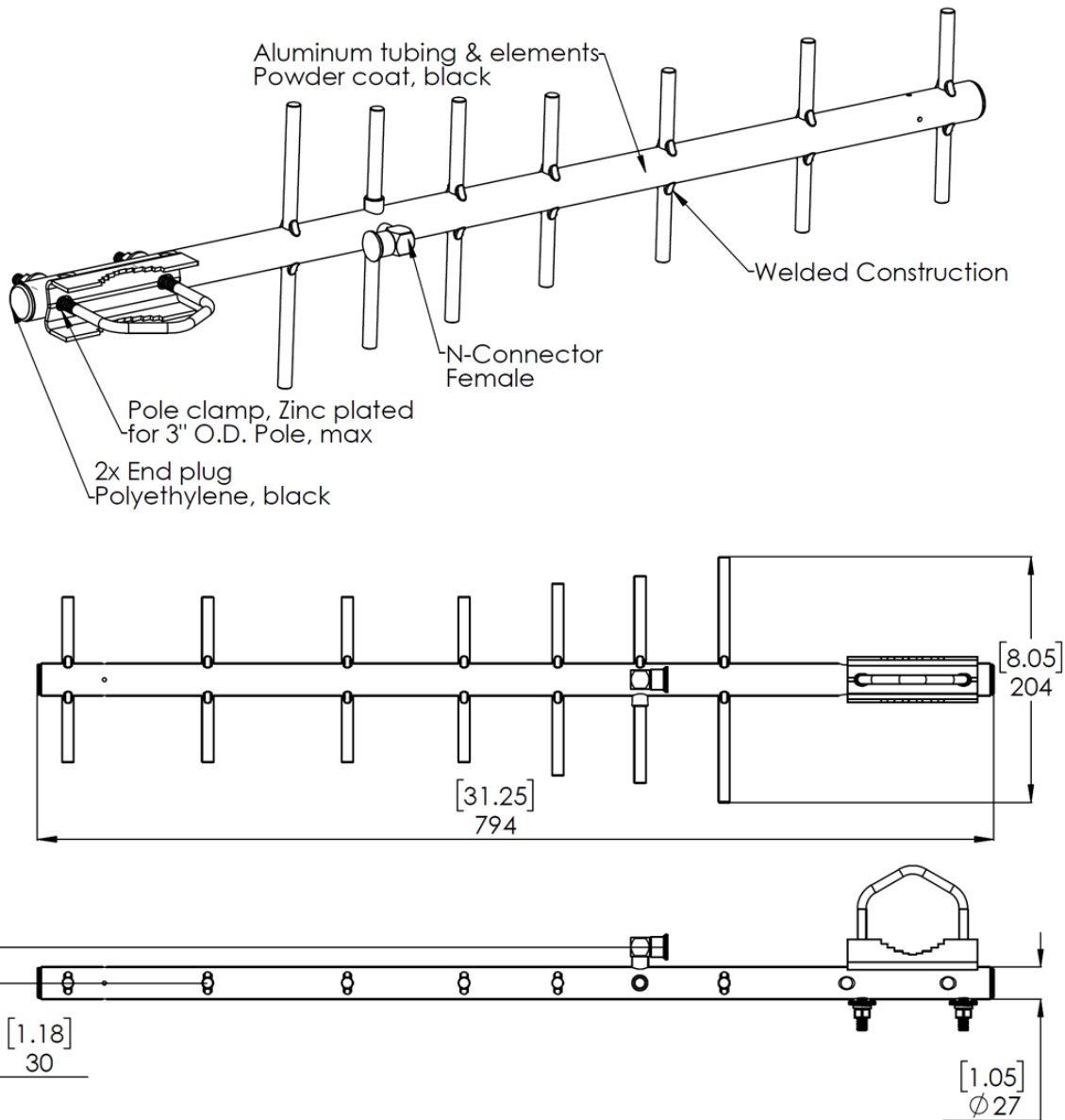
Operating Temperature	-40 to +85 ° C
Storage Temperature	-40 to +85 ° C
Cyclic	-40 to +55 ° C (5 ° C/min)
Wind-loading	164 km/h / 100 mi/h
Humidity	93% @ +30 ° C
Cyclic	95% @ +30 ° C
Rain	15 mm/min (30 min)
Salt Mist	7 Days
Industrial Atmosphere	4 Days
Sinusoidal Vibration Displacement	3 mm - 2/9 Hz
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 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

Description: 806-866 MHz 11 dBi 7-Element Yagi, Black, All-Welded, N-female connector

Series: Yagi

PART NUMBER: YA5800W

MECHANICAL DRAWING



Unit: mm [in]

Issue: 1834

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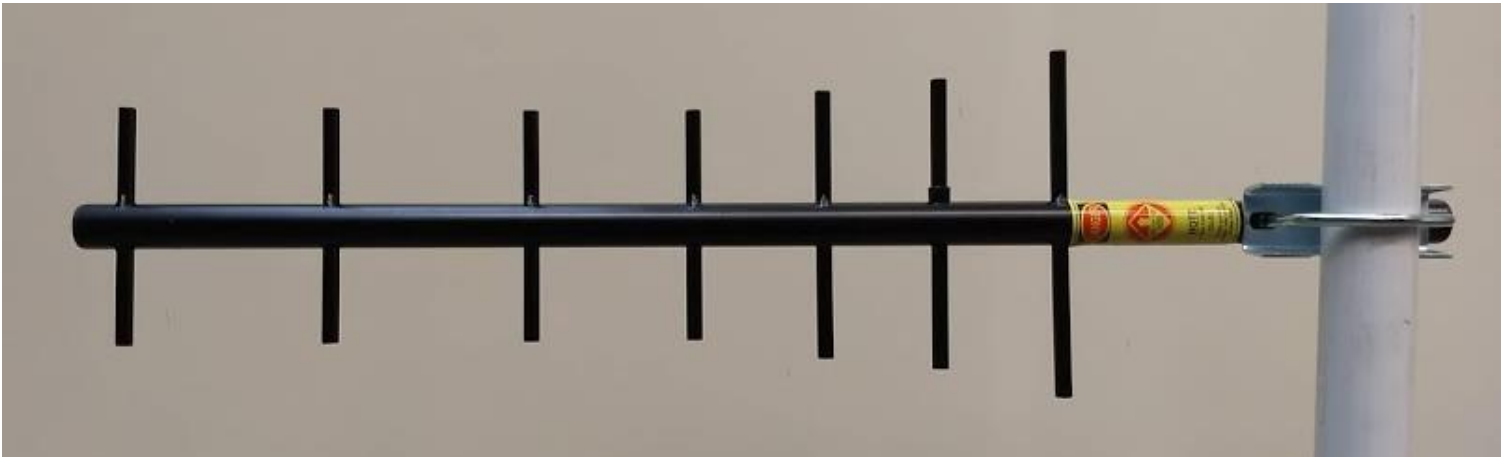
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Series: Yagi

Description: 806-866 MHz 11 dBi 7-Element  
Yagi, Black, All-Welded, N-female connector

PART NUMBER: YA5800W

## TEST SETUP



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

Issue: 1834

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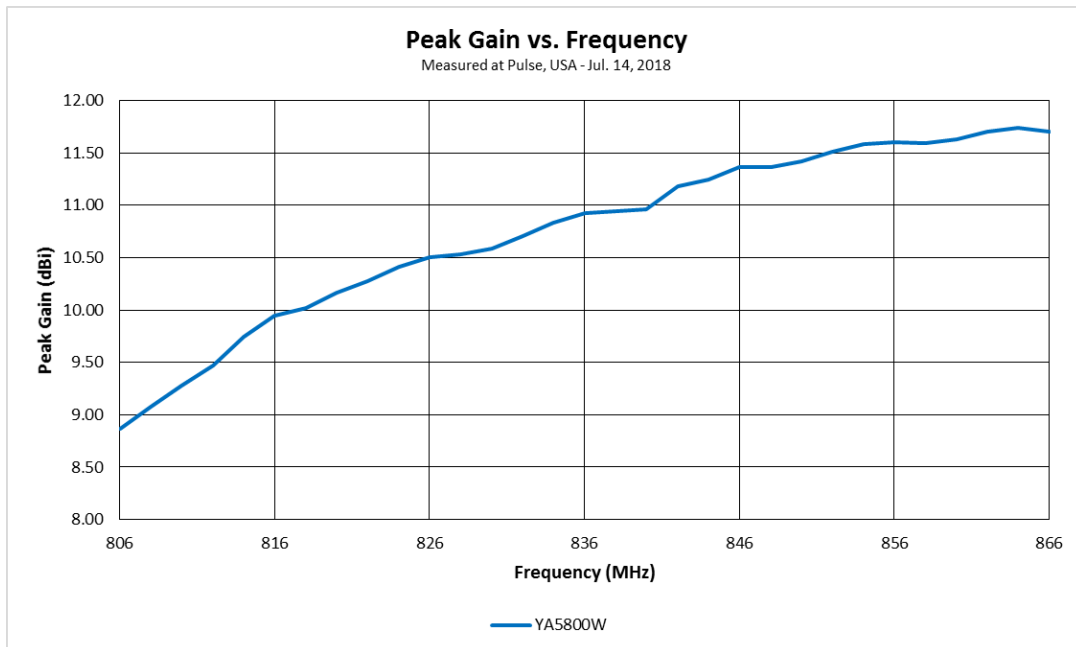
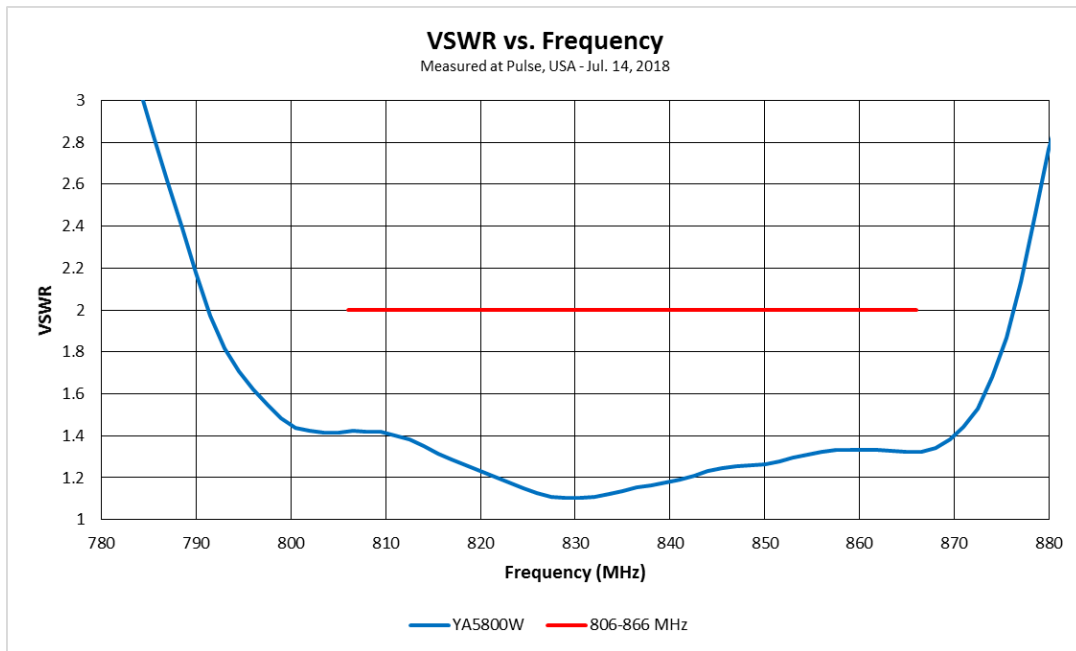
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Description: 806-866 MHz 11 dBi 7-Element Yagi, Black, All-Welded, N-female connector

Series: Yagi

PART NUMBER: YA5800W

CHARTS



Issue: 1834

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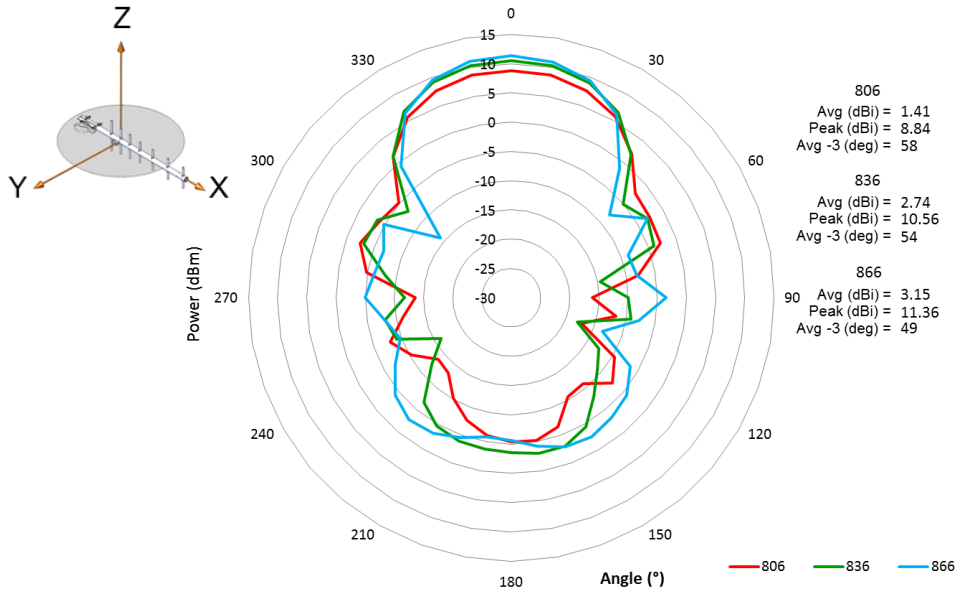
Description: 806-866 MHz 11 dBi 7-Element Yagi, Black, All-Welded, N-female connector

Series: Yagi

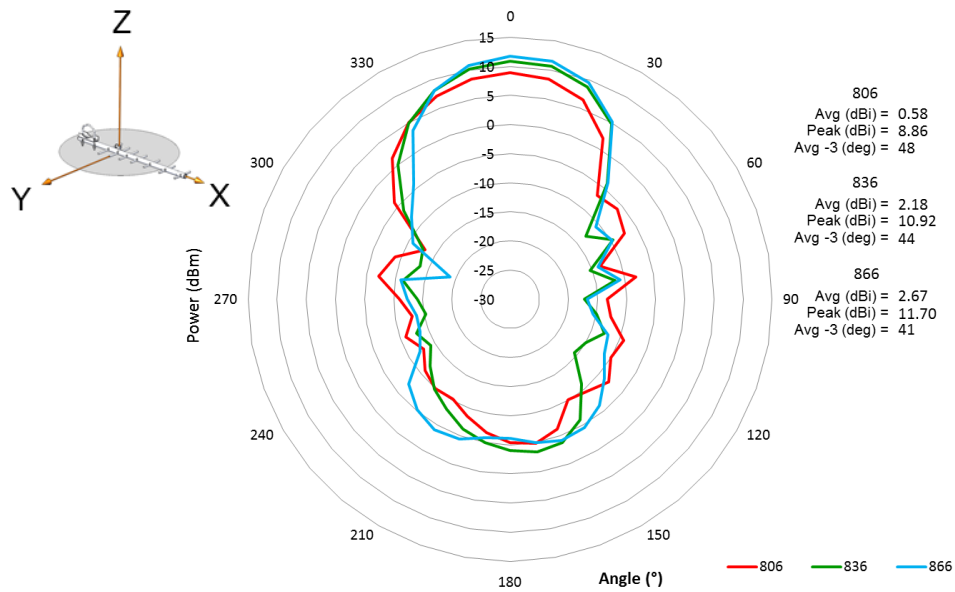
PART NUMBER: YA5800W

CHARTS

Azimuth/Horizontal Plane



Elevation/Vertical Plane



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**Description: 806-866 MHz 11 dBi 7-Element Yagi, Black, All-Welded, N-female connector**

**Series: Yagi**

**PART NUMBER: YA5800W**

## 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

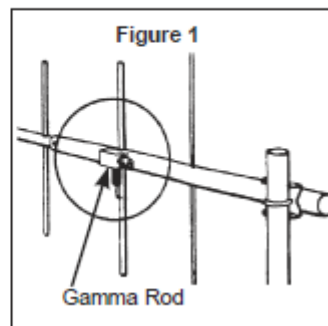
1 label on cardboard box with part number, date code, characteristics

## ASSEMBLY

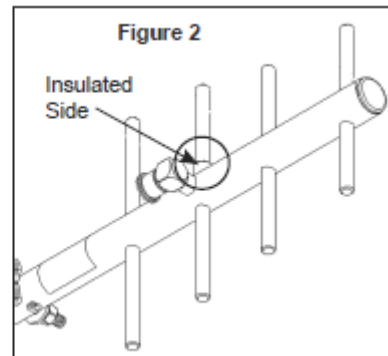
### INSTALLATION INSTRUCTIONS

#### 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).







Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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