

Y(B)UHF

Yagi Antennas - UHF Series 406-512 MHz

The UHF series directional Yagi, six elements, UHF series focus on maximum durability, heavy duty, and high performance. This UHF Yagi series is a 12.2 dBi antenna gain which operates on 406 to 512 MHz frequency ranges (varies per product). It is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind, and other harsh conditions.

FEATURES AND BENEFITS


- Gold anodized and fully welded for corrosion resistance and maximum durability
- Internally matched feed line welded into boom for maximum strength and electrical conductivity
- Boom and elements are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- 100% tested on a network analyzer

APPLICATIONS

- Designed for heavy duty Amateur and Commercial applications

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	Varies per product (see Configuration table)
VSWR – Max	<1.5:1
Return Loss – Max (dB)	-10
Gain (dBi)	12.2
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	300
Polarization	Vertical or horizontal
Pattern	Directional
Vertical Plane 3 dB Beamwidth	67°
Horizontal Plane 3 dB Beamwidth Port 1	57°
Tuning	Fixed
Transmitting/Receiving	Both
Front-to-Back Ratio (dB)	20

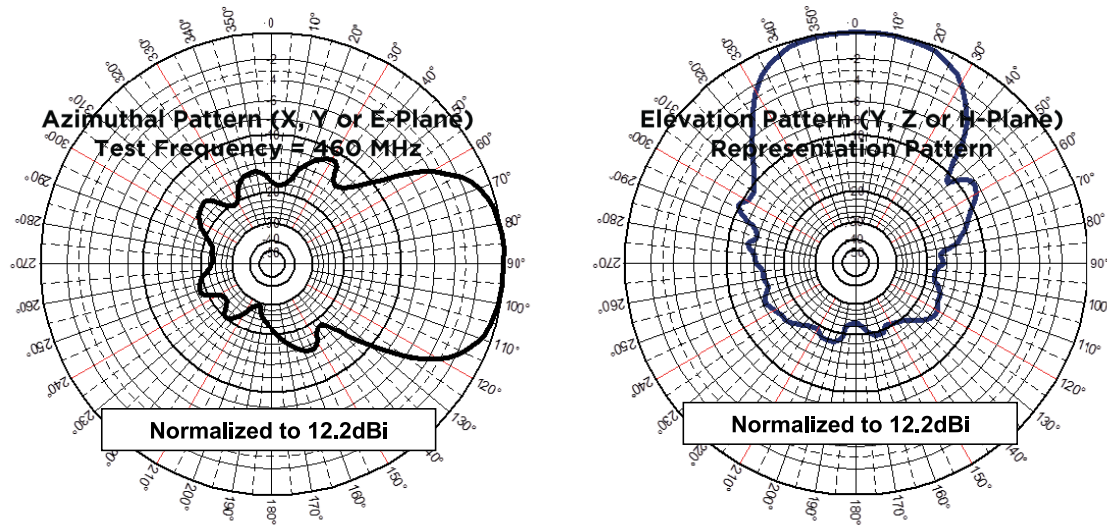
MECHANICAL SPECIFICATIONS	
Dimensions - mm (inches)	Varies per product (see Configuration table)
Weight - kg (lbs.)	~1.81 (~ 4.0)
Cable Type	None
Connector Type	N-female connector
Radome Material	6061-T6 aluminum
Color	Gold or (B) black anodized
Mounting	Yagi mounting kit for installation
Boom Diameter - cm (inches)	2.223 (0.875)
Lightning Protection	Lightning arrester LABH350NN (sold separately) 

ENVIRONMENTAL SPECIFICATIONS	
Operating Environment (Indoor or Outdoor)	Outdoor
Operating Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Rated Wind Velocity - km/hr (mph)	201 (125)
Equivalent Flat Area - sq. m (sq. ft.) (max)	0.0429 (0.4620)

CONFIGURATION

PART NUMBER	FREQUENCY (MHz)	COLOR	DIMENSIONS - L X H X W - cm (in)
Y4066	406-430	Gold	122.238 x 36.512 x 2.223 (48.125 x 14.375 x 0.875)
Y4306	430-450	Gold	102.395 x 35.243 x 2.223 (40.313 x 13.875 x 0.875)
Y4506	450-470	Gold	102.395 x 34.608 x 2.223 (40.313 x 13.625 x 0.875)
YB4506-L	450-470	Black	102.395 x 34.608 x 2.223 (40.313 x 13.625 x 0.875)
Y4706	470-512	Gold	102.395 x 31.433 x 2.223 (40.313 x 12.375 x 0.875)

RADIATION PATTERNS



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, complete, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event will TE be liable for any direct, indirect, incidental, special or consequential damages arising from or related to recipient's use of the information. It is the sole responsibility of recipient of this information to verify the results of this information using their engineering and product environment. Recipient assumes any and all risks associated with the use of the information. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use compliance and regulatory requirements.

©2025 TE Connectivity. All Rights Reserved.

05/25 Original