

YagiRef-Lite™

16dB Wide Band Antenna for Amplifiers, Boosters, Repeaters, Modems, Hotspots

The YagiRef-Lite™ is a top quality, directional antenna that can be used as an external antenna for amplifiers/repeaters/boosters (GSM/PCS/DCS/2G/3G/4G/AWS/UMTS/WiMAX), direct-connect antenna for cellular devices such as cell phones, modems, and mobile hotspots, direct-connect antenna for Wi-Fi devices, and direct-connect antenna for WiMAX devices. It is meant for the outdoors and the mount type is for pole/mast. The YagiRef-Lite™ has a bandwidth of 700MHz to 2900MHz and a peak gain of 13 dB. Its nominal impedance is 50 Ohms and its connector type is FME-Male and N-Female. The YagiRef-Lite™ weighs 1.5 lbs (680 g) and measures 14 x 12 x 12 in (35 x 30 x 30 cm). The YagiRef-Lite™ is a durable, high-efficiency antenna with top-notch features and performance, and it's made in the USA with high quality components and skilled craftsmanship



Main Features

- Perfect as an external antenna for amplifiers/repeaters/boosters (GSM/PCS/DCS/2G/3G/4G/AWS/UMTS/WiMAX), direct-connect antenna for cellular devices such as cell phones, modems, and mobile hotspots, direct-connect antenna for Wi-Fi devices, and direct-connect antenna for WiMAX devices
- Very wide operational bandwidth of 700MHz to 2900MHz. Peak gain of 13 dB. Directional radiation type with pole/mast type mount
- Nominal impedance of 50 Ohms with vertical polarization and recommended mainly for outdoors use
- All-weather protected with wind resistance up to 120 mph (192 kmh) and operating temperature of -40°F to 185°F (-40°C to 185°C). Horizontal radiation pattern of 35°
- Made in the USA with high quality components and skilled craftsmanship. One year manufacturer warranty included

Data Sheet and Technical Specifications

Trademark Name	YagiRef-Lite™
Part Number / SKU	YRL-50-OHM
UPC	633643376876
Applications	External antenna for amplifiers/repeaters/boosters (GSM/PCS/DCS/2G/3G/4G/AWS/UMTS/WiMAX), direct-connect antenna for cellular devices such as cell phones, modems, and mobile hotspots, direct-connect antenna for Wi-Fi devices, and direct-connect antenna for WiMAX devices
Environment	Outdoors
Radiation Type	Directional

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Mount Type	Pole/Mast
Connector Type	FME-Male and N-Female
Bandwidth	700MHz to 2900MHz
Nominal Gain at 750MHz	14 dB
Nominal Gain at 800MHz	14.2 dB
Nominal Gain at 850MHz	14.5 dB
Nominal Gain at 900MHz	15 dB
Nominal Gain at 1700MHz	16 dB
Nominal Gain at 1800MHz	16 dB
Nominal Gain at 1900MHz	16 dB
Nominal Gain at 2100MHz	15 dB
Nominal Gain at 2400MHz	14.8 dB
Nominal Gain at 2500MHz	14.5 dB
Nominal Gain at 2600MHz	14.3 dB
Nominal Gain at 2700MHz	14 dB
Nominal Gain at 3500MHz	N/A
Standing Wave Ratio (VSWR) at 750MHz	1.4:1 typical (1.8:1 max)
Standing Wave Ratio (VSWR) at 800MHz	1.4:1 typical (1.8:1 max)
Standing Wave Ratio (VSWR) at 850MHz	1.4:1 typical (1.8:1 max)

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Standing Wave Ratio (VSWR) at 900MHz	1.4:1 typical (1.8:1 max)
Standing Wave Ratio (VSWR) at 1700MHz	1.3:1 typical (1.5:1 max)
Standing Wave Ratio (VSWR) at 1800MHz	1.3:1 typical (1.5:1 max)
Standing Wave Ratio (VSWR) at 1900MHz	1.3:1 typical (1.5:1 max)
Standing Wave Ratio (VSWR) at 2100MHz	1.3:1 typical (1.5:1 max)
Standing Wave Ratio (VSWR) at 2400MHz	1.3:1 typical (1.5:1 max)
Standing Wave Ratio (VSWR) at 2500MHz	1.4:1 typical (1.6:1 max)
Standing Wave Ratio (VSWR) at 2600MHz	1.4:1 typical (1.6:1 max)
Standing Wave Ratio (VSWR) at 2700MHz	1.5:1 typical (1.7:1 max)
Standing Wave Ratio (VSWR) at 3500MHz	1.5:1 typical (1.7:1 max)
Nominal Impedance	50 Ohms
Front-Back Ratio	42 dB
Polarization	Vertical
Horizontal Beamwidth	50°

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Vertical Beamwidth	45°
Maximum Continuous Applicable Power	75 W
Power Requirements	None (passive antenna)
Net Weight (Mount Included when applicable)	1.5 lbs (680 g)
Dimensions (Height x Width x Depth)	44 x 12 x 12 in (128.75 x 30 x 30 cm)
Wind Rate Resistance	120 mph (192 kmh)
Lightning Protection	Optional
Radome Material	N/A
Operating Temperature	-40°F to 185°F (-40°C to 185°C)
Other Features	All-weather protected
Production Status	Active

YagiRef-Lite™ Radiation Patterns and Additional Diagrams



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