

NEQS Broadband Yagi 5.5dB Directional Low Gain Yagi Antenna (10212-1)

Brand: NEQS

P/N: 10212-1

- **6061-T6 Aluminum elements**
Welded solid rod for high strength, low weight and corrosion resistance.
- **Broadband**
Duplex operation for cellular and trunking applications.
- **Weatherproof radome**
Protects elements against severe weather conditions.
- **Small surface area**
Minimizes wind resistance and conserves tower loading capacity.



Description

The 10212 Yagi is a 5.5 dBd gain broadband antenna that covers the entire 806-960 MHz range in two bands. This low gain yagi is specifically designed for control station operations. It is ruggedly constructed of 6061-T6 aluminum material consisting of 5/16" diameter rods and 3/4" diameter tubing. The director and reflector elements are precision welded to the main boom, effectively eliminating misalignment problems during shipping, installation or service. The feed point radiator is enclosed in a molded ABS radome designed to protect against severe environmental conditions and minimize pattern distortion due to ice buildup. The mounting hardware supplied facilitates mounting on either vertical or horizontal members. The small surface area on the 10212 Yagi minimizes wind resistance and conserves tower loading capacity.

Electrical Specifications

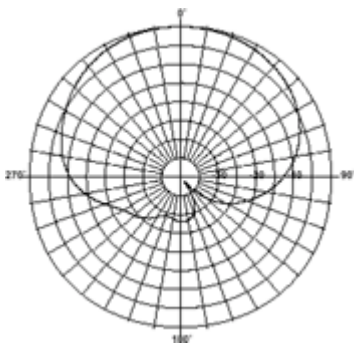
Frequency Range – MHz	806-896
Gain – dBd (dBi)	5.5 (7.6)
Bandwidth – MHz for 1.5:1 VSWR	60+
Horizontal Beamwidth – Degrees	105
Vertical Beamwidth – Degrees	66
Polarization	Vertical
Front to Back Ratio – dB	20
Maximum Power Input – Watts	150
Lightning Protection	Direct Ground
Termination – Direct Fixed	N-female

Mechanical Specifications

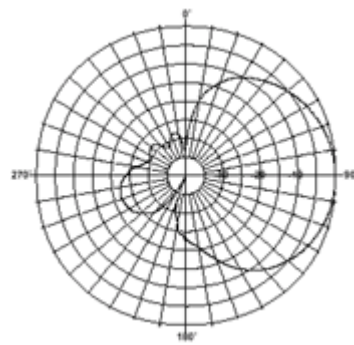
Dimensions – WxDxH – in (mm)	14 x 8 x 4 (356 x 203 x 102)
Weight – lbs. (kg)	3 (1.36)
Element Material	6061-T6 Aluminum
Max Wind Loading Area (Flat Plate Equivalent) – ft2 (m2)	.18 (.017)
Rated Wind Speed – mph (km/hr)	150 (242)
Torsional Moment @ Rated Wind on Support Pipe ft lbf (N m)	6.6 (8.9)
Side Thrust @ Rated Wind – lbf (N)	16.2 (72)
Mounting Hardware – Supplied	Integral Plate w/U-bolts

Shipping Specifications

Shipping Weight – lbs. (Kg)	10 (4.5)
Shipping Dimensions of Antenna - WxDxH – ft (m)	24 x 8 x 8 (609 x 203 x 203)



Horizontal Pattern



Vertical Pattern