Yagi Antenna

YW09-7489

746 - 896 MHz

This high gain yagi antenna provides a solution where operation within the 700/800MHz frequency bands is required. Their broad operating bandwidth also provides network design consistency and maintenance stocking benefits for users operating in multiple frequency band segments.

The unique dipole element design delivers excellent performance across the entire 150MHz bandwidth, with consistently low VSWR and less pattern distortion than dual dipole designs. The passive elements are mounted to the square boom section and welded on both sides to minimise the potential for corrosion or the generation of passive intermodulation (PIM). The antenna rests at ground potential to provide excellent lightning protection and reduced precipitation static noise.

Applications include RF control, short or long haul links, control station combining and telemetry installations requiring a highly directional antenna in point-to-point and point-to-multipoint networks.

Features:

- Wide band coverage from 746MHz to 896MHz
- All welded construction for reliability
- Excellent front to back ratio
- Ecofilm™ conductive plating for performance reliability
- Designed to minimize the generation of PIM

RFI
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Twinsburg, OH 44087
Phone: 330 486 0706
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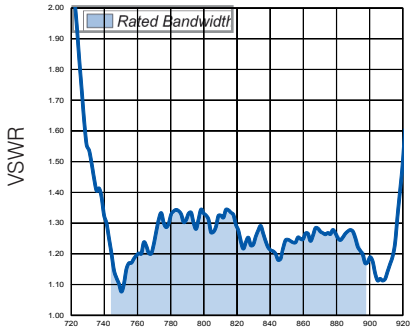
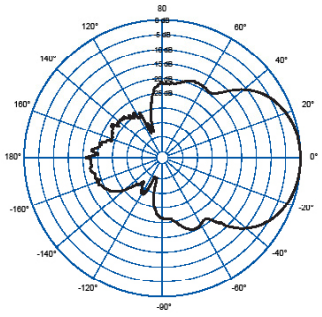
Electrical Specifications	YW09-7489
Nominal Gain dBd *(dBi)*	11 (13.1)
Frequency *MHz*	746 - 896
Tuned Bandwidth MHz	150
VSWR	<1.5:1
Nominal Impedance Ω	50
Vertical Beamwidth °	52
Horizontal Beamwidth °	64
Front to Back Ratio *(dB)*	20
Input Power *Watts*	200

Mechanical Specifications		YW09-7489
Construction		Ecofilm™ plated all welded aluminium
Length *inches*		31.5
Maximum Width *inches*		7.9
Weight *lbs*		1.3
Termination		1.6ft of 9142 fitted with N-Type (F) connector
Mounting Bracket		SBC-20 (included)
Shipping Length *inches*		39.4
Shipping Width *inches*		11.8
Shipping Height *inches*		3.9
Shipping Weight *lbs*		2.2
Projected Area *(ft²)*	No ice	0.5
	with ice	1.2
Lateral (Thrust) @ 100mph *lbs*		13
Wind Gust Rating *mph*		99
Torque @ 100mph *ft-lbs*		15

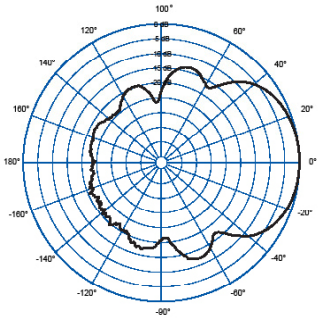
Typical VSWR Response



Typical E Plane



Typical H Plane



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