

Yagi Antenna

698-890MHz

YW15-6989



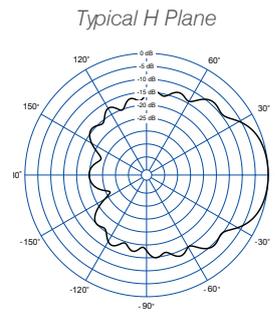
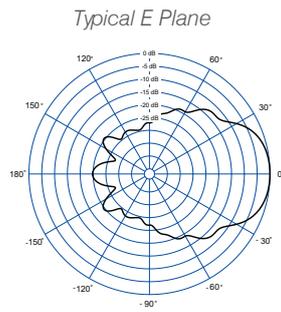
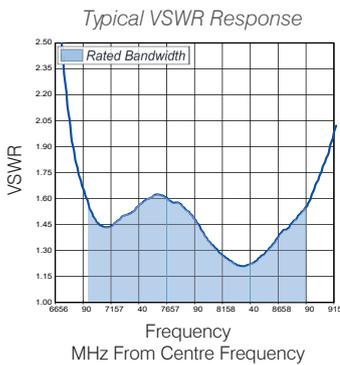
This high gain antenna provides a solution where operation within the 700/800MHz frequency bands. The broad bandwidth also provides network design consistency and benefits to users operating in multiple frequency band segments.

The unique dipole element design delivers excellent performance across the entire 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 698MHz to 890MHz
- All welded construction for reliability
- Excellent front-to-back ratio
- Alodined conductive plating for performance reliability
- Designed to minimize the generation of PIM



Electrical Specifications

Model Number	YW15-6989
Nominal Gain dBd (dBi)	13.0 (15.1)
Frequency MHz	698 - 890
Tuned Bandwidth MHz	Full
VSWR (Return Loss)	<1.8:1
Nominal Impedance Ω	50
Vertical Beamwidth $^{\circ}$	35
Horizontal Beamwidth $^{\circ}$	38
Front to Back Ratio (dB)	20
Input Power W	100

Mechanical Specifications

Model Number	YW15-6989
External Construction	All welded aluminium with alodined finish
Length mm	1552
Width mm	215
Weight kg	1.0
Termination	500mm of RG142 fitted with N type Female Connector
Clamps	SBC-20 clamps included, suit 25-50mm dia. mount
Projected Area - No Ice cm 2	915
Projected Area - With Ice cm 2	1936
Lateral Thrust @ 160km/h N	108
Wind Gust Rating km/h	184
Torque @ 160km/h Nm	73