

UHF Directional Yagi Antennas

330-600MHz

YB-PIM Series



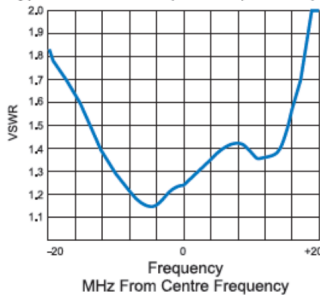
The YB PIM rated Series are high gain yagi antennas which will provide excellent point to point communication in RF control, short or long haul link and other applications calling for highly directional antennas. YB Series antennas exhibit narrow beamwidths and high front to back ratios for minimisation of interference to and from other systems.

The feed element of each antenna is of full folded dipole construction thus offering maximum bandwidth and reliability. All elements are fully welded to the boom to ensure low Passive Intermodulation performance and maximum durability. The passive elements are through mounted to the circular boom section and fully welded at each side to further minimise the potential for both corrosion and generation of intermodulation products.

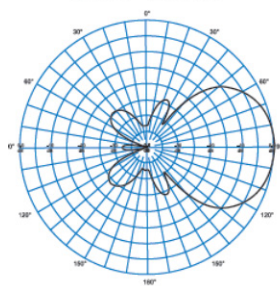
Features:

- All welded PIM rated construction for maximum and reliable performance
- Narrow beamwidths & high front to back ratios effective in reducing interference
- Alodine finish provides an excellent conductive surface for earthing
- Can be configured in stacks or bays for higher gain applications using PH and PHE series phasing harnesses
- DC grounding on all elements for the ultimate in lightning protection and dissipation of static noise

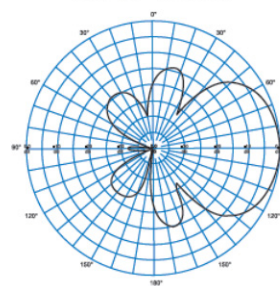
Typical VSWR response (YB6-61)



YB6-61 - E Plane



YB6-61 - H Plane



Electrical Specifications

Model Number	YB6-99-PIM	YB9-99-PIM
Nominal Gain dBi (dBd)	11(9)	13(11)
Frequency MHz	330-600	400-600
Tuned Bandwidth	5%	
VSWR	< 1.5:1	
Impedance Ω	50	
E Plane Beamwidth°	47	42
H Plane Beamwidth°	56	48
Front / Back Ratio dB	18 (typical)	
Power Max. W	100	
Passive IM 3 rd order dBc	-150	

Mechanical Specifications

Model Number	YB6-99-PIM	YB9-99-PIM
Construction	All welded Aluminium with alodined finish	
Length m	1.5	2.0
Weight kg	0.9	1.2
Termination	1 x N (female) on short 8142 cable tail	
Mounting Area	100mm x 25mm dia.	
Suggested Clamps	1 x UCR1	
Projected Area cm ²	No Ice	859
	With Ice	2078
Wind Load (Thrust) @ 160km/h N	77	102
Wind Gust Rating km/h	>240	207
Torque @ 160km/h Nm	52	92