

UHF Directional Yagi Antennas

400-600 MHz

YB9 Series



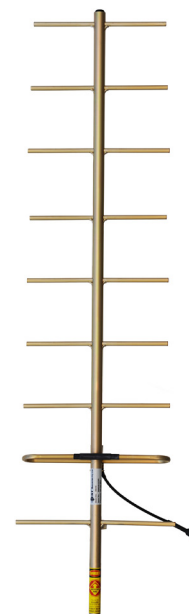
The YB Series are high gain yagi antennas which will provide excellent point to point communication in RF control, short or long haul link and other applications calling for highly directional antennas. YB Series antennas exhibit narrow beamwidths and high front to back ratios to help minimise potential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

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

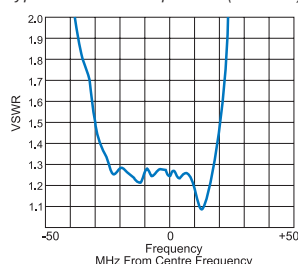
For extreme climatic or corrosive applications, the stainless steel YBSS Series or black ruggedised RDA Series yagis should be considered.

Features:

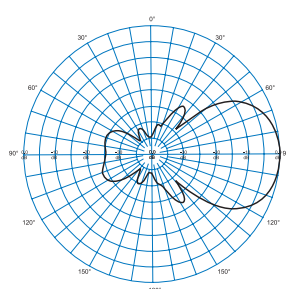
- All welded construction for maximum and reliable performance
- Narrow beamwidths & high front to back ratios effective in reducing interference
- Alodine finish provides an excellent conductive surface for earthing
- Can be configured in stacks or bays for higher gain applications using PH and PHE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



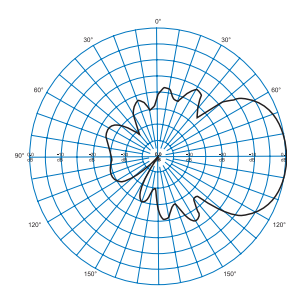
Typical VSWR response (YB9-61)



YB9-61 - E Plane



YB9-61 - H Plane



Electrical

Model Number	YB9-65	YB9-61	YB9-62	YB9-99
Nominal Gain <i>dBi</i> (<i>dBd</i>)	13 (11)			
Frequency <i>MHz</i>	400 - 420	450 - 480	480 - 520	400 - 600
Tuned Bandwidth	Full band			5.0%
VSWR (Return Loss)	<1.5 :1 (14dB)			
Nominal Impedance Ω	50			
Vertical Beamwidth $^\circ$	46			42
Horizontal Beamwidth $^\circ$	54			48
Front / Back Ratio <i>dB</i>	18 (Typical)			
Input Power <i>W</i>	100			

Mechanical

Model Number	YB9-65	YB9-61	YB9-62	YB9-99	
Construction	All welded aluminium with alodined finish				
Length <i>m</i>	2.0	1.8	1.6	2.0	
Weight <i>kg</i>	1.2	1.0	1.0	1.2	
Termination	N female with short 9008 cable tail				
Mounting Area	100mm x 25mm diam. alodined aluminium				
Suggested Clamps	1 X UCR1				
Projected Area <i>cm</i> ²	No ice	859	771	694	859
	With ice	2078	1842	1640	2078
Wind Load (Thrust) @ 160km/h <i>N</i>	102	91	82	102	
Wind Gust Rating <i>km/h</i>	207	220	240	207	
Torque @160 km/h <i>Nm</i>	92	75	60	92	