

UHF Directional Yagi Antennas

400-470 MHz

YB10 Series



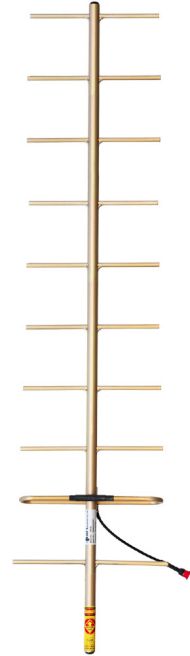
The YB Series are high gain yagi antennas which will provide excellent point to point communication in RF control, short or long haul link and other applications calling for highly directional antennas. YB Series antennas exhibit narrow beamwidths and high front to back ratios to help minimise potential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

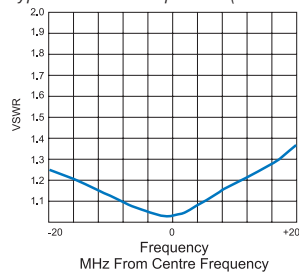
For extreme climatic or corrosive applications, the stainless steel YBSS Series or black ruggedised RDA Series yagis should be considered.

Features:

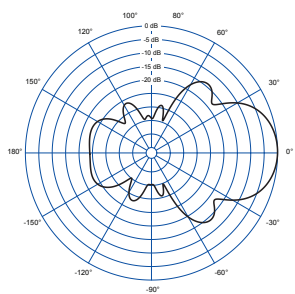
- All welded construction for maximum and reliable performance
- Narrow beamwidths & high front to back ratios effective in reducing interference
- Alodine finish provides an excellent conductive surface for earthing
- Can be configured in stacks or bays for higher gain applications using PH and PHE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



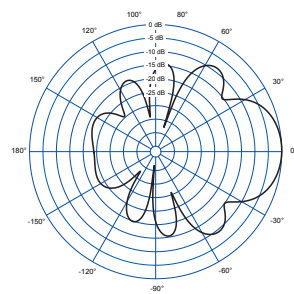
Typical VSWR response (YB10-65)



YB10-65 - E Plane



YB10-65 - H Plane



Electrical

Model Number	YB10-65	YBSS10-65	YB10-70	YBSS10-70
Nominal Gain <i>dBi</i> (<i>dBd</i>)	13 (11)			
Frequency <i>MHz</i>	400 - 420		450 - 470	
Tuned Bandwidth	Full			
VSWR (Return Loss)	<1.5:1 (14dB)			
Nominal Impedance Ω	50			
Vertical Beamwidth $^\circ$	36			
Horizontal Beamwidth $^\circ$	39			
Front / Back Ratio <i>dB</i>	18			
Input Power <i>W</i>	100			

Mechanical

Model Number	YB10-65	YBSS10-65	YB10-70	YBSS10-70
Construction	Welded aluminium, alodined finish	Welded 316 Stainless Steel	Welded aluminium, alodined finish	Welded 316 Stainless Steel
Length <i>m</i>	1.8		1.7	
Weight <i>kg</i>	1.1	2.2	1	2
Termination	N Female with 9008 cable tail	N Female with RG302 cable tail	N Female with 9008 cable tail	N Female with RG302 cable tail
Mounting Area	100mm x ϕ 25mm			
Suggested Clamps	1 x UNV and 1 M-4528			
Projected Area <i>cm</i> ²	No ice	867	763	
	With ice	2127	1833	
Wind Load (Thrust) @ 160km/h <i>N</i>	103		90	
Wind Gust Rating <i>km/h</i>	240			
Torque @160 km/h <i>Nm</i>	83		67	

*conforms with ACMA RALI specifications for low, medium and high density areas.