

UHF Directional Yagi Antennas

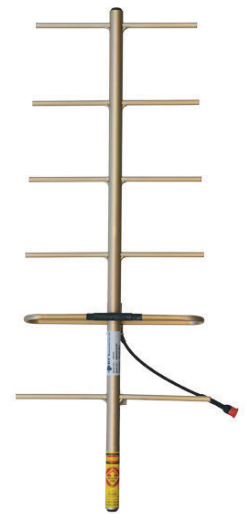
400-600 MHz

YB6 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.

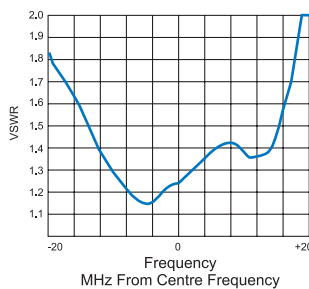
The feed element of each antenna is of full folded dipole construction thus offering maximum bandwidth and reliability. The dipole element is welded to the boom to ensure low intermodulation performance and maximum durability. The passive elements are through mounted to the circular boom section and 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..



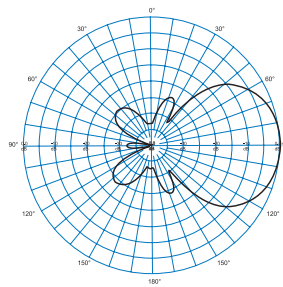
Key Features:

- 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

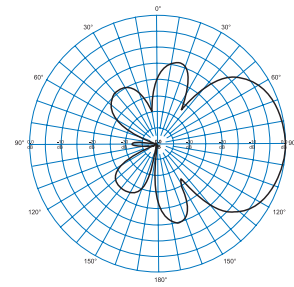
Typical VSWR response (YB6-61)



YB6-61 - E Plane



YB6-61 - H Plane



Electrical Specifications

Model Number	YB6-63	YB6-65	YB6-61	YB6-62	YB6-75	YB6-99
Nominal Gain dBi (dBd)	11 (9)					
Frequency MHz	420 - 450	400 - 420	450 - 480	480 - 520	580 - 600	330 - 600
Tuned Bandwidth MHz	Full band					5%
VSWR (Return Loss)	<1.5:1 (14dB)					
Nominal Impedance Ω	50					
Vertical Beamwidth°	47					
Horizontal Beamwidth°	56					
Front / Back Ratio dB	18 (Typical)					
Input Power Watts	100					

Mechanical Specifications

Model Number	YB6-63	YB6-65	YB6-61	YB6-62	YB6-75	YB6-99	
Construction & Configuration	All welded aluminium with alodined finish						
Length mm	1.13	0.9	1.0	0.8	0.8	1.5	
Weight kgs	0.8	0.7	0.7	0.6	0.6	0.9	
Termination	N female with short 9008 cable tail						
Mounting Area mm	100mm x 25mm diam. alodined aluminium						
Suggested Clamps	1 x UNV						
Projected area cm ²	No ice	522	485	477	394	349	652
	with ice	1193	1169	1099	967	857	1479
Wind Load (Thrust) @ 160km/h (N)	62	57	56	47	41	77	
Wind Gust Rating km/h	>240						
Torque @ 160km/h (Nm)	29	22	24	16	13	52	