

800MHz Broadband Yagi Antenna

850-930 MHz

YBA818-82



The YBA818-82 is a highly directional antenna ideally suited for point to point communications in RF Control and Point to Multi-Point long haul link applications.

Both feed elements are constructed from a fully folded dipole welded to the boom, providing maximum bandwidth, excellent intermodulation performance and high reliability. The passive elements are thru mounted to the circular boom section which is fully welded to the mounting tube with a welded spacer between both booms before plating. The entire antenna is then plated in an alodine finish to provide an excellent conductive surface to ensure effective earthing of the antenna when it is mounted.



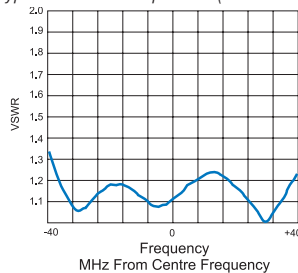
The YBA818-82 can be double stacked into a 4-boom array for additional gain by simply ordering two antennas and the PA84-82 stacking kit which includes 2 spacing control frames, two fibreglass upright supports and a two-way phasing harness for phasing both arrays together.

Note: Suitable for vertically polarised installations only

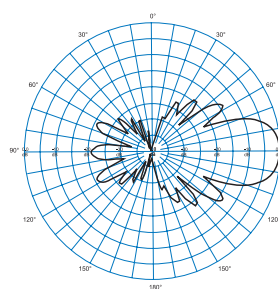
Features:

- All welded construction for maximum and reliable performance
- Narrow beamwidth & high front to back ratios effective in reducing interference
- Can be configured in bays for higher gain applications
- DC grounding on all elements for the ultimate in lightning protection and dissipation of static noise

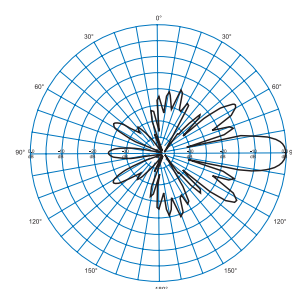
Typical VSWR response (YBA818-82)



YBA818-82 - E Plane



YBA818-82 - H Plane



Electrical

Model Number	YBA818-82
Nominal Gain dBi (dBd)	19 (17)
Frequency MHz	850 - 930
Tuned Bandwidth	Full band
VSWR (Return Loss)	<1.5 :1 (14dB)
Nominal Impedance Ω	50
Vertical Beamwidth°	28
Horizontal Beamwidth°	14
Front / Back Ratio dB	24
Input Power W	200
Passive IM 3rd order dBc	-150

Mechanical

Model Number	YBA818-82
Construction	Welded aluminium with alodined finish with fibreglass supports
Length m	1.9
Weight kg	5.5
Termination	External harness with N female and short 9142 cable tail
Mounting Area	Clamps to diam. 40-85mm
Suggested Clamps	Clamps supplied
Projected Area cm ²	No ice 2127 With ice 4821
Wind Load (Thrust) @ 60km/h N	252
Wind Gust Rating km/h	> 177
Torque @160 km/h Nm	221