800 MHz Yagi Antennas

540-1000 MHz

YB815 Series



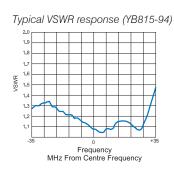
The YB815 Series are high gain Low PIM yagi antennas which provide excellent point to point communications in RF control, short or long haul link, point to multipoint and other applications calling for highly directional antennas. YB815 Series antennas exhibit narrow beamwidths and high front to back ratios to help minimise any potential interference to and from other systems.

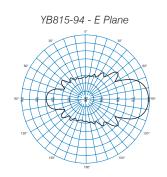
YB815 Series antennas can be configured in stacks or bays for higher gain applications in either horizontally or vertically polarised systems.

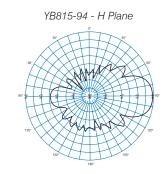
Termination is via an 'N' female coaxial connector fitted to a short 9302 Durathene cable tail. Durathene is a PTFE dielectric and polyethylene jacketed cable providing superior resistance to weathering and abrasion and is less susceptible to bird attack than standard PVC sheathed cables.

Features:

- All welded construction for maximum and reliable performance
- Narrow beamwidth & high front to back ratios effective in reducing interference
- Standard units feature alodine finish providing an excellent conductive surface for earthing.
 Full stainless steel versions also available
- 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







Electrical

Bracing kit available Part No. M-4528

Model Number	YB815-81	YB815-82	YB815-94	YB815-99	YB820-81	YB820-82	YB820-94		
Nominal Gain dBi (dBd)		14	(12)	16 (14)					
Frequency MHz	806-896	850-930	890-960	540-1000	806-896	850-930	890-960		
Tuned Bandwidth	Full band 5.0%				Full band				
VSWR (Return Loss)	<1.5:1 (14dB)								
Nominal Impedance Ω	50 Ohm								
Vertical bandwidith°		3	0	27					
Horizontal Beamwidth°		3	0	28	24	27			
Front / Back Ratio dB	20	18	17	17	17	18			
Input Power W	100								

Mechanical

		\/D045.04	\/B045.00	\/D045.04	VD045.00	V/D000 04	\/D000.00	V/D000 04		
Model Number		YB815-81	YB815-82	YB815-94	YB815-99	YB820-81	YB820-82	YB820-94		
Construction		All welded aluminium with alodined finish.								
Length m		1.6			2.6	2.4	2.3	2.2		
Weight kg		1.0		0.9	1.6	1.4	1.3			
Termination	ı	N female with short 9302 cable tail								
Mounting Area		100mm x 25mm diam. aluminium								
Suggested Clamps		1 x UCR1 + x M-4528 bracing kit								
Projected Area cm²	No ice	636	639	928	1067	909	863	846		
	With ice	1539	1550	1514	2630	2270	2168	2121		
Wind load (Thrust) @ 160km/h N		75	76	74	126	108	102	100		
Wind Gust Rating km/h		240			156	166	186	189		
Torque @ 160 km/h Nm		53	53	52	152	116	104	100		