

Ruggedised UHF Yagi Antennas

300-600 MHz

RDA9 Series



The RDA9 Series are ruggedised high gain yagi antennas which will provide excellent point to point communication in extreme climatic environments. RDA Series antennas exhibit narrow beamwidths and high front to back ratios to help minimise any potential interference to and from other radio systems.

Built specifically for hostile conditions, the boom and the elements of the RDA Series yagis are significantly larger and more robust than on the standard YB range.

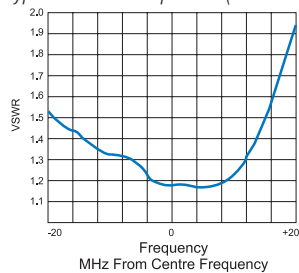
Termination is via an 'N' female coaxial connector fitted to a short Durathene cable tail. Durathene is a PTFE dielectric and polyethylene jacketed cable providing superior resistance to weathering and abrasion and is less susceptible to bird attack than standard PVC sheathed cables.

Features:

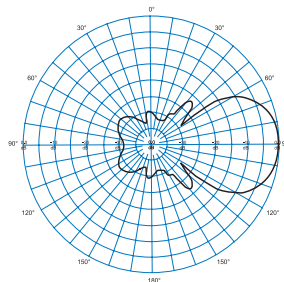
- All welded construction for maximum and reliable performance
- High front to back ratios - reducing interference to and from other systems
- Black powder coating aids in snow and ice shedding by maximising solar heat retention
- Ruggedised construction for use in extreme conditions
- Can be configured 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



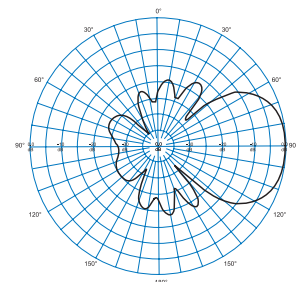
Typical VSWR response (RDA9-99)



RDA9-99 - E Plane



RDA9-99 - H Plane



Electrical

Model Number	RDA9-65	RDA9-61	RDA9-62	RDA9-99
Nominal Gain dBi (dBd)	13 (11)			
Frequency MHz	400 - 420	450 - 480	480 - 520	350 - 600
Tuned Bandwidth	Full band			4%
VSWR (Return Loss)	<1.5 :1 (14dB)			
Nominal Impedance Ω	50			
Vertical Beamwidth°	41			
Horizontal Beamwidth°	46			
Front / Back Ratio dB	18			
Input Power W	250			

Mechanical

Model Number	RDA9-65	RDA9-61	RDA9-62	RDA9-99	
Construction	All welded aluminium with black powder coated finish. See note (1)				
Length m	2.0	1.8	1.7	2.4	
Weight kg	1.6	1.4	1.3	1.9	
Termination	N female with short 9302 cable tail				
Mounting Area	100mm x 32mm diam. powder coated aluminium				
Suggested Clamps	1 X UCR1				
Projected Area cm ²	No ice	1057	948	867	1293
	With ice	2209	1954	1774	2746
Wind Load (Thrust) @ 160km/h N	125	112	103	153	
Wind Gust Rating km/h	>240				
Torque @160 km/h Nm	113	93	77	172	

(1) RDA series yagis may be ordered in alternative unpainted, plain alodined aluminium finish. Specify "RDB" prefix.