



DVA-1415-SB-6

8 dipole omni-directional dual termination binary array

VHF high band 136-174 MHz



The DVA-1415-SB-6 VHF binary dipole array offers both an omni-directional radiation pattern and genuine broadband coverage across the entire VHF 136-174 MHz frequency range. The array is therefore ideally suited for multiple frequency transmissions at highly populated radio sites utilising a Tx and Rx dual cable termination.

Filtering, lightning protection, coaxial cable and other installation accessories are all available separately.

Construction	2-piece welded corrosion resistant aluminium boom, folded dipoles, internal phasing harnesses and external dual input/output cables	
Frequency range	136-174 MHz - VHF high band & VHF land mobile radio	
Bandwidth	Full frequency range stated - 38 MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	Per upper/lower section: 3 dBd Combined: 6 dBd	
Maximum power	250 Watts per input	
Polarisation	Vertical	
H Plane	360° omnidirectional	
E Plane	21° @ 6 dBd	42° @ 3 dBd
Impedance	50 Ohms	
DC grounding	Yes	
Cable	Dual 500mm RG213 cable bottom exit from antenna	
Connector	N-type female fitted as standard or specify	
Projected area	0.724m ²	
Wind load at 160kph	105.197kg, 1.031kN	
Height	7.03 metres	
Mount section area	88.9mmø x 300mm	
Weight	40kg	
Mounting hardware order separate	2 x UAM180L or UAM90L - 40-75mm capability 2 x UAM180UNI or UAM90UNI - 40-90mm capability	
Alternate models	DVA-1317 series for single cable input/output	
Installation tools required	17mm spanner for 2 piece join bolts	



Dual cable exit



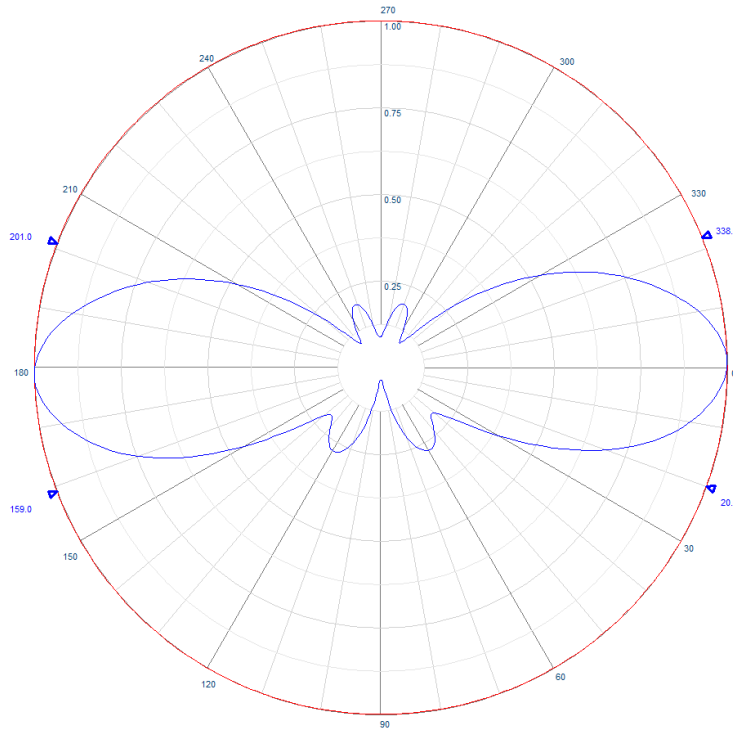
Dual cable terminations



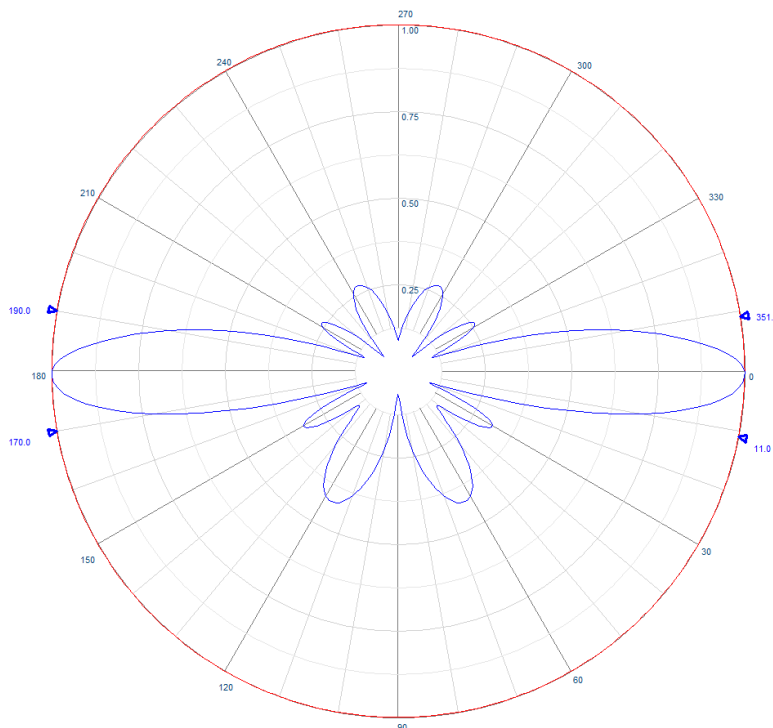
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Example radiation pattern for DVA-1415-SB-6 - half of array



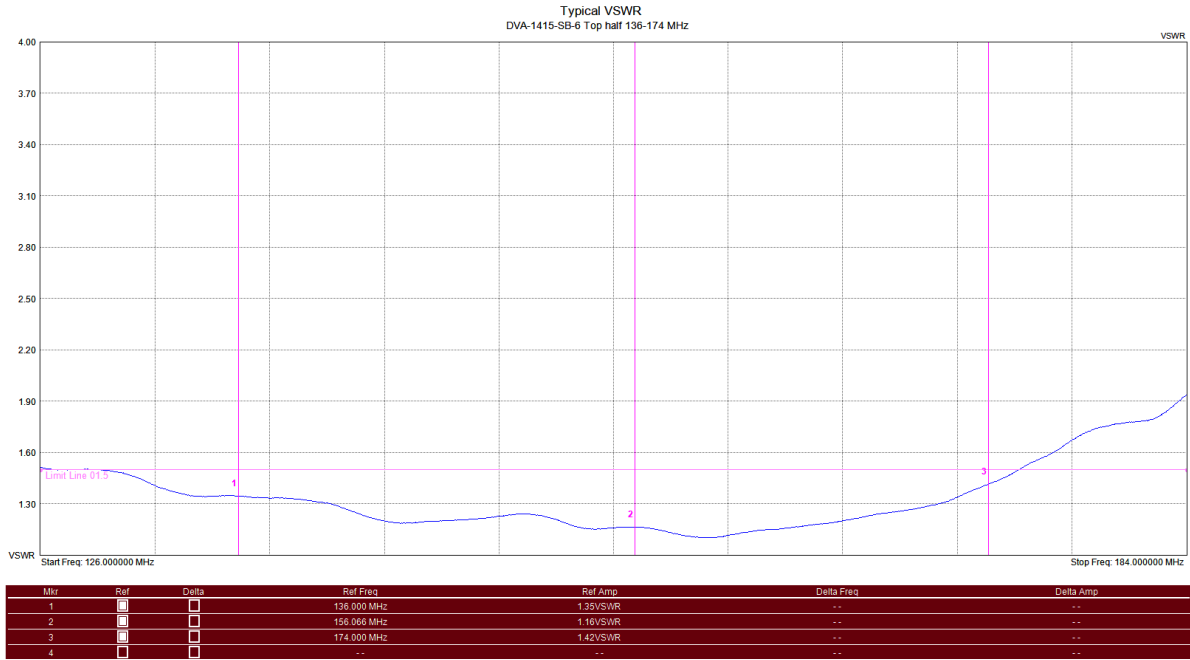
Example radiation pattern for DVA-1415-SB-6 - if externally phased using power divider



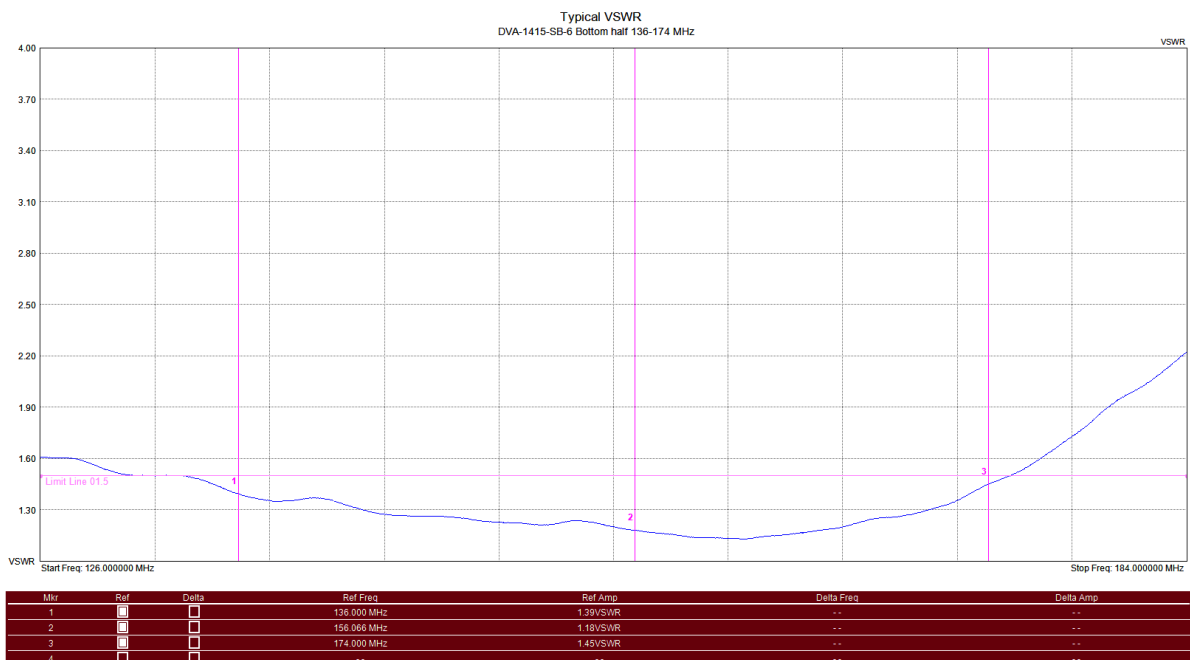
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Typical VSWR - DVA-1415-SB-6 top half of array



Typical VSWR - DVA-1415-SB-6 bottom half of array



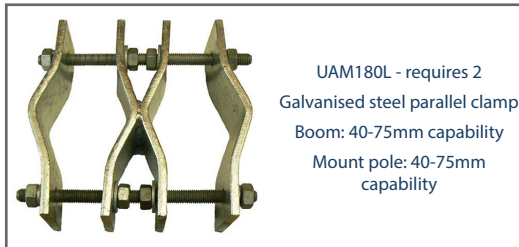
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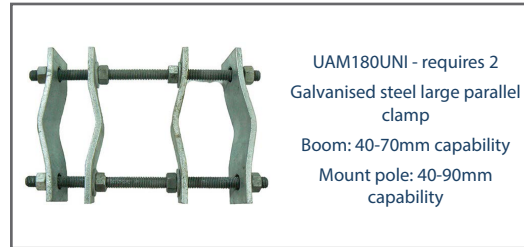
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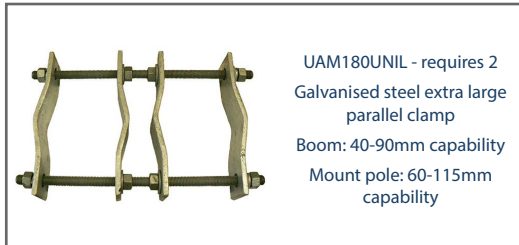
Suitable mounting hardware



UAM180L - requires 2
Galvanised steel parallel clamp
Boom: 40-75mm capability
Mount pole: 40-75mm capability



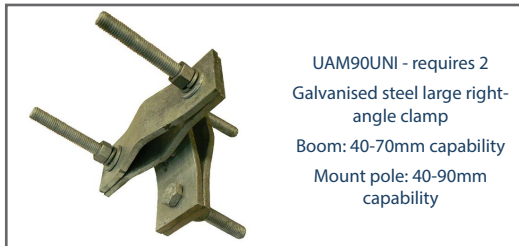
UAM180UNI - requires 2
Galvanised steel large parallel clamp
Boom: 40-70mm capability
Mount pole: 40-90mm capability



UAM180UNIL - requires 2
Galvanised steel extra large parallel clamp
Boom: 40-90mm capability
Mount pole: 60-115mm capability



UAM90L - requires 2
Galvanised steel right-angle clamp
Boom: 40-75mm capability
Mount pole: 40-75mm capability



UAM90UNI - requires 2
Galvanised steel large right-angle clamp
Boom: 40-70mm capability
Mount pole: 40-90mm capability



UAM90LL - requires 2
Galvanised steel extra large right-angle clamp
Boom: 60-115mm capability
Mount pole: 60-115mm capability

Suitable feeder coaxial cable



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)
P/N 7890
Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor
P/N 8226
Tri-metal plated



RU600 Solid copper conductor, low loss coaxial cable
LMR-600™ equivalent
(* times microwave)
P/N 7890-3
Available in 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor
P/N 8226-2
Tri-metal plated



1/2" corrugated shielding, foam dielectric coaxial cable
P/N ZCG1250
Available in per metre, 500m roll or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable
P/N NM1250
Tri-metal plated