



Airband binary dipole array

4-8 dipole omni-directional binary array

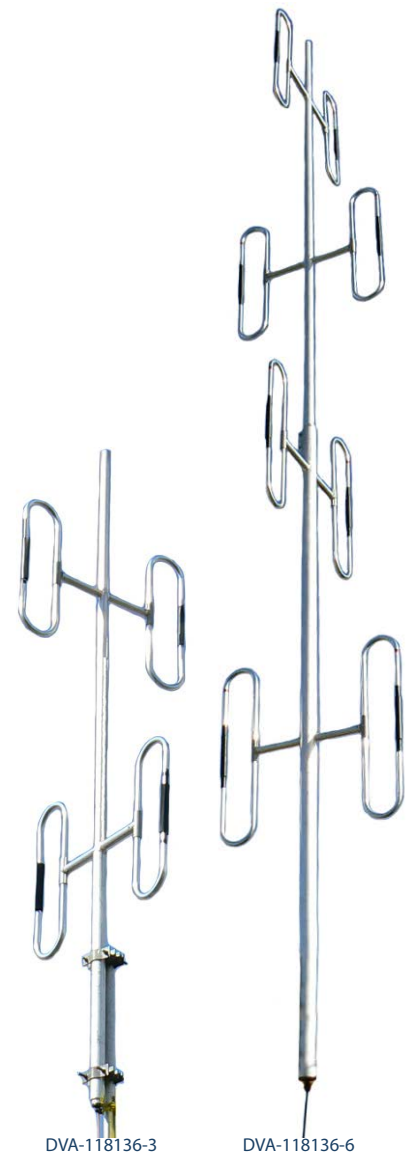
VHF Air Band 118-137 MHz



The DVA-118136 series of binary dipole arrays offers both an omni-directional radiation pattern and genuine broadband coverage across the entire Airband 118-136MHz frequency range. The array is therefore ideally suited for multiple frequency transmissions at highly populated sites.

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

SKU	DVA-118136-3	DVA-118136-SB-6
Construction	Single piece fully-welded corrosion resistant aluminium boom and dipoles	Two-piece fully-welded corrosion resistant aluminium boom and dipoles
Frequency range	118-137 MHz - VHF Air Band	
Bandwidth	Full frequency range stated - 19 MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	3 dBd	6 dBd
Maximum power	500 Watts	
Polarisation	Vertical	
H Plane	360° omnidirectional, ± 0.5 dBd	
E Plane	33°	21°
Impedance	50 Ohms	
DC grounding	Yes	
Cable tail	1.0 metre RG142 - bottom exit from mount section can be manufactured with 2 x 1.0m RG142 cable tails for TX/RX array configuration - please specify when ordering	
Connector	N-type female fitted to cable as standard	
Projected area	0.358m ²	0.851m ²
Wind load at 160kph	43.391kg, 0.425kN	103.076kg, 1.01kN
Height	4.3 metres	8.06 metres
Mount section	48.4mm O.D. x 450mm	88.9mm O.D. x 700mm
Weight	26.0kg	60.0kg
Mounting hardware order separate	Parallel: 2 x UAM180L 40-75mm or UAM180UNI - 40-90mm Right-angle: 2 x UAM90L - 40-75mm or UAM90UNI - 40-90mm	
Installation tools required	17mm spanners for split-boom model only	



DVA-118136-3

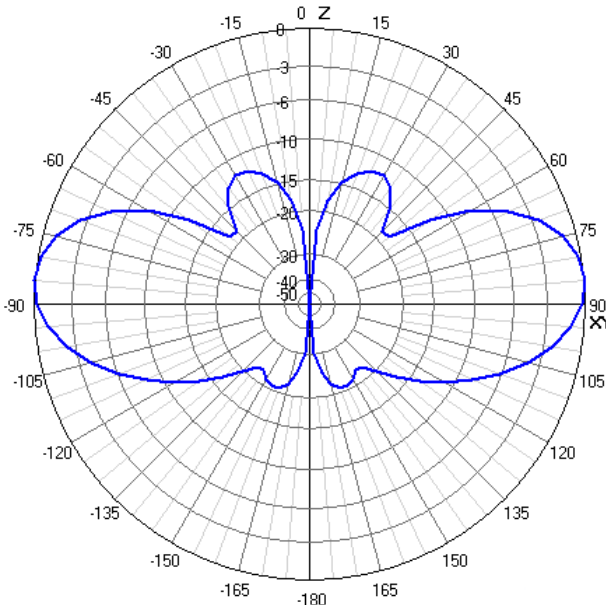
DVA-118136-6



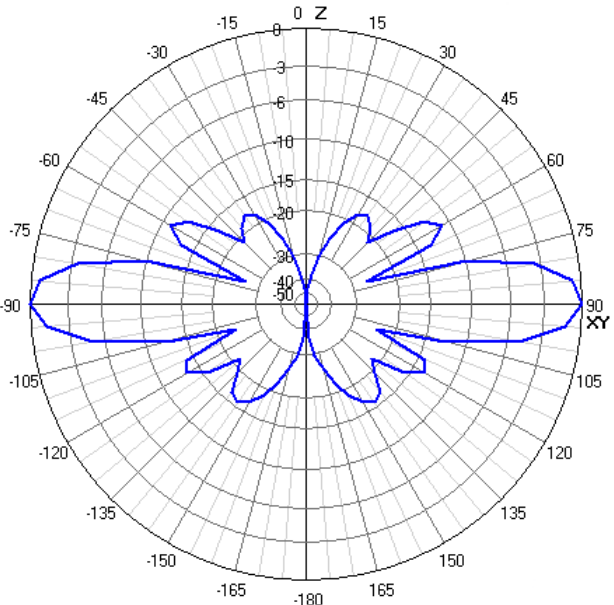
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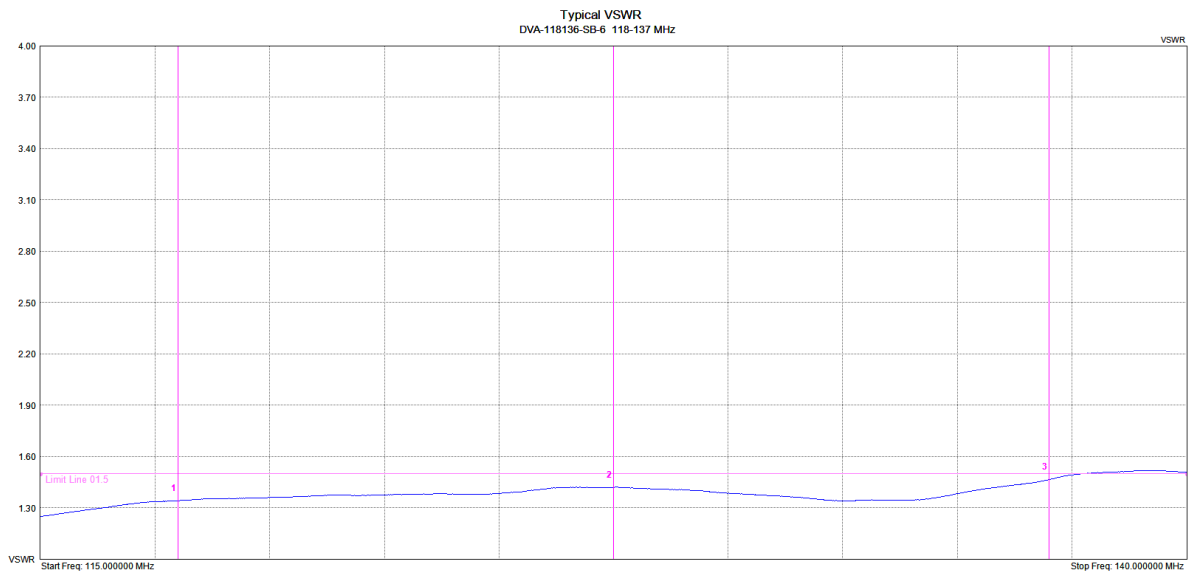
VHF Air Band 118-137 MHz



Sample radiation pattern DVA-118136-3



Sample radiation pattern DVA-118136-SB-6



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	118.000 MHz	1.34VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	127.500 MHz	1.42VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	137.000 MHz	1.47VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR - DVA-118136-SB-6



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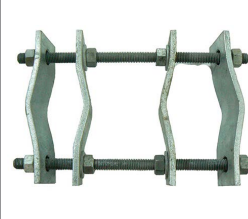
VHF Air Band 118-137 MHz




Suitable mounting hardware



SKU: UAM180L
2 units recommended
 Galvanised steel parallel clamp
 Boom: 40-75mm capability
 Mount pole: 40-75mm capability



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



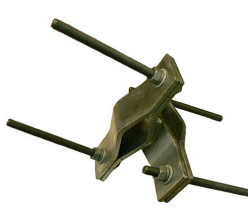
SKU: UAM180UNIL
2 units recommended
 Galvanised steel extra large parallel clamp
 Boom: 40-90mm capability
 Mount pole: 60-115mm capability



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



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



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

Suitable feeder coaxial cable



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



SKU: NM-8226
 N-type male crimp connector for RU400 low loss, solid conductor
 Tri-metal plated



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



SKU: NM-8226-2
 N-type male crimp connector for RU600 low loss, solid conductor
 Tri-metal plated



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



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