



## Air Band dipole stack arrays

### Broadband 2-stack or 4-stack dipole arrays

#### VHF Air Band 118-137 MHz

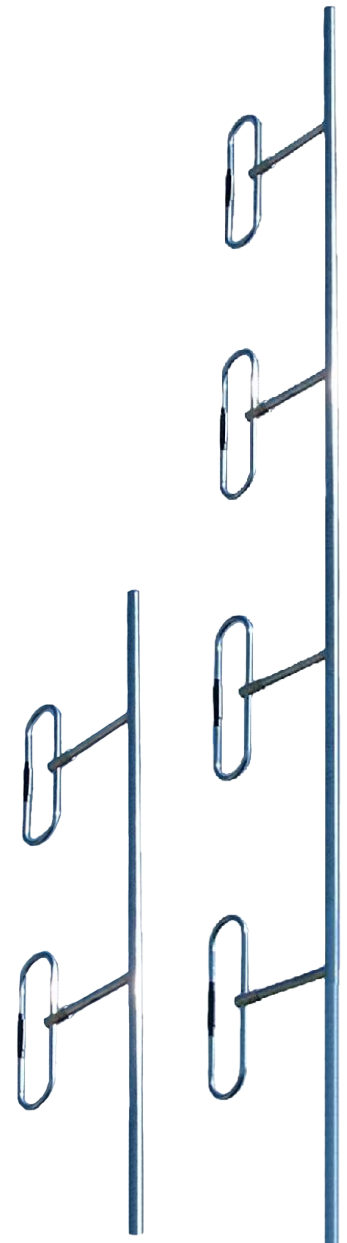


The S2B42 2-stack and S4B42 4-stack dipole arrays cover the full Air band frequency range 118-137 MHz.

There are various methods of mounting these dipole stack arrays to a mast or tower. Please consult ZCG for advice about the best solution for your mounting arrangement.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

SKU	S2B42-1C	S4B42-1C
Construction	Welded corrosion resistant aluminium boom and dipole offsets, folded dipoles and internal power divider. For 304 grade stainless steel add <b>SS</b>	
Dipoles in array	2	4
Frequency	118-137 MHz - VHF Air Band	
Bandwidth	Full frequency range stated - 19 MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	4.5 dBd	7.5 dBd
Maximum power	250 Watts	500 Watts
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	240°	
E Plane	33°	16°
Connector	N-type female in base of mount section	
Dimensions	Alum: 3.0m x 48.4mm O.D. S/S: 3.0m x 50.8mm O.D.	Alum: 7.0m x 48.4mm O.D. S/S: 6.0m x 50.8mm O.D.
Weight	Aluminium Stainless steel 18.0kg 30.0kg	30.0kg 50.0kg
Projected area	0.193m <sup>2</sup>	0.375m <sup>2</sup>
Wind load at 160kph	0.516kN; 52.627kg	1.002kN; 102.24kg
Mounting hardware order separate	2 x UAM180L - top and bottom, or consult ZCG	3 x UAM180L - top, middle and bottom, or consult ZCG.

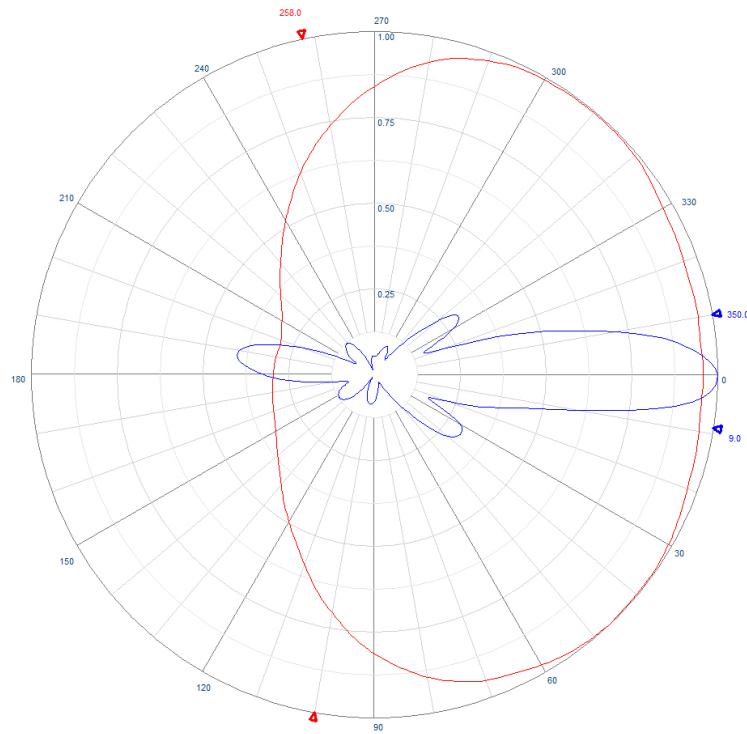




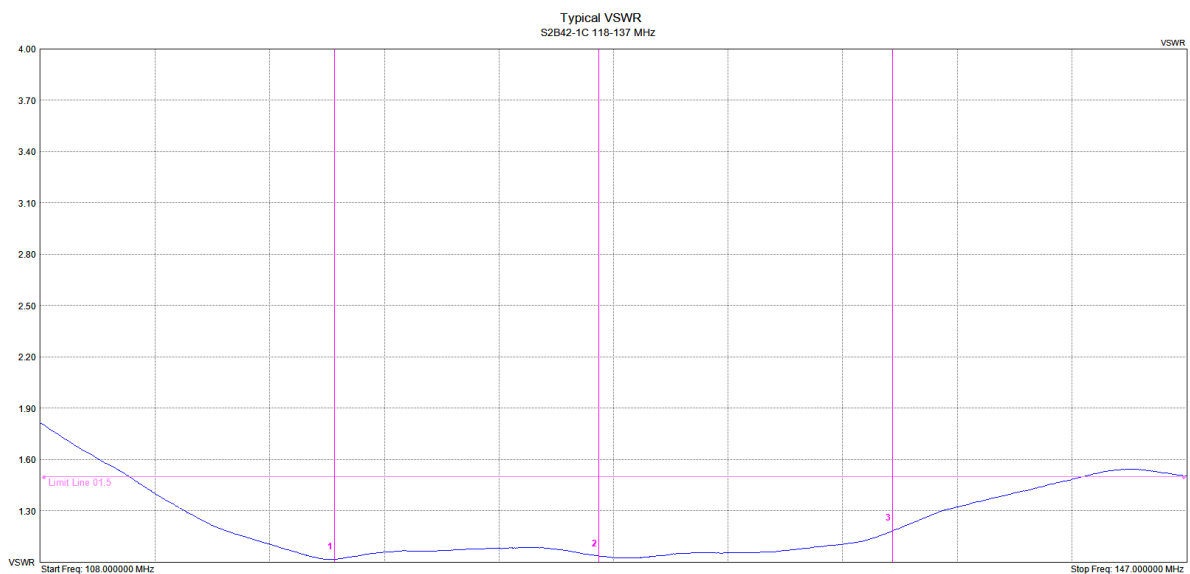
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Example radiation pattern - S4B42-1C



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	118.000 MHz	1.02 VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	127.000 MHz	1.04 VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	137.000 MHz	1.18 VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR



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### Suitable mounting hardware

 <p><b>SKU: UAM180L</b> 2 units recommended Galvanised steel heavy-duty parallel clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>	 <p><b>SKU: UAM180UNI</b> 2 units recommended Galvanised steel large parallel clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>
 <p><b>SKU: UAM180UNIL</b> 2 units recommended Galvanised steel extra large parallel clamp Boom: 40-90mm capability Mount pole: 60-115mm capability</p>	 <p><b>SKU: UAM90L</b> 2 units recommended Galvanised steel right-angle clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>
 <p><b>SKU: UAM90UNI</b> 2 units recommended Galvanised steel large right-angle clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>	 <p><b>SKU: UAM90LL</b> 2 units recommended Galvanised steel extra large right-angle clamp Boom: 60-115mm capability Mount pole: 60-115mm capability</p>

### Suitable feeder coaxial cable

 <p><b>SKU: 7890</b> RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) <b>SKU: 7890-3 - RU400-UF ultra flexible</b> Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p><b>SKU: NM-8226</b> N-type male crimp connector for RU400 low loss, solid conductor Tri-metal plated</p>
 <p><b>SKU: 7890-2</b> RU600 Solid copper conductor, low loss coaxial cable CNT-600 / LMR-600™ equivalent (™ times microwave) Available in 500m roll or alternatively request a custom cable assembly</p>	 <p><b>SKU: NM-8226-2</b> N-type male crimp connector for RU600 low loss, solid conductor Tri-metal plated</p>
 <p><b>SKU: ZCG1250</b> 1/2" corrugated shielding, foam dielectric coaxial cable Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p><b>SKU: NM1250</b> N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable Tri-metal plated</p>