



S2B44-1CPH & S4B44-1CPH

2-Stack or 4-stack internally phased vertical dipole array

TE.T.RA / Land Mobile Radio / UHF 400-520 MHz



The S2B44-1CPH & S4B44-1CPH dipole stack arrays are suitable for UHF, Tetra or Land Mobile Radio (LMR) applications within the full 400-520 MHz frequency range. If a power rating higher than 250 Watts is required, please contact ZCG for advice.

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

SKU	S2B44-1CPH	S4B44-1CPH	
Construction	Corrosion resistant aluminium, internal phasing harness and external cable and termination. Add SS for 304 stainless steel models		
Dipoles	2	4	
Frequency range	400-520 MHz - UHF, TETRA, LMR, GRN compatible		
Bandwidth	Full frequency range stated - 120 MHz		
VSWR	<1.5:1		
Tuning	Factory		
Gain	4.5 dBd	7 dBd	
Maximum power	250 Watts		
Impedance - nominal	50 Ohms		
DC grounding	Yes		
Polarisation	Vertical only		
H Plane	240°		
E Plane	33°	16°	
Connector	N-type female fitted to 1.0m MIL-SPEC RG213 cable bottom exit as standard, or specify termination requirements		
Dimensions	1.5m x 50mm	2.5m x 50mm	
Weight	Aluminium Stainless Steel	6.0kg 9.0kg	10.0kg 15.0kg
Projected area	0.150m ²		
Wind load at 160kph	18.6kg, 0.183kN		
Mounting hardware order separate	Parallel: 2 x UAM180L or UAM180UNI Right-angle: 2 x UAM90L or UAM90UNI		



Cable exit with gland



N-type female fitted as standard or specify requirements

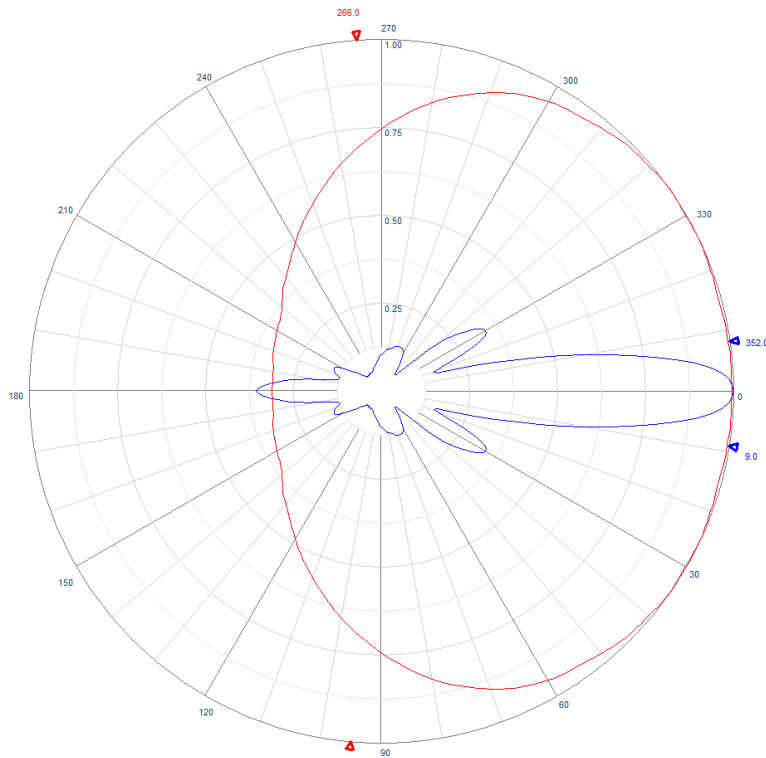
For Dual cable and connector configuration please see S2B44-2CPH or S4B44-2CPH models



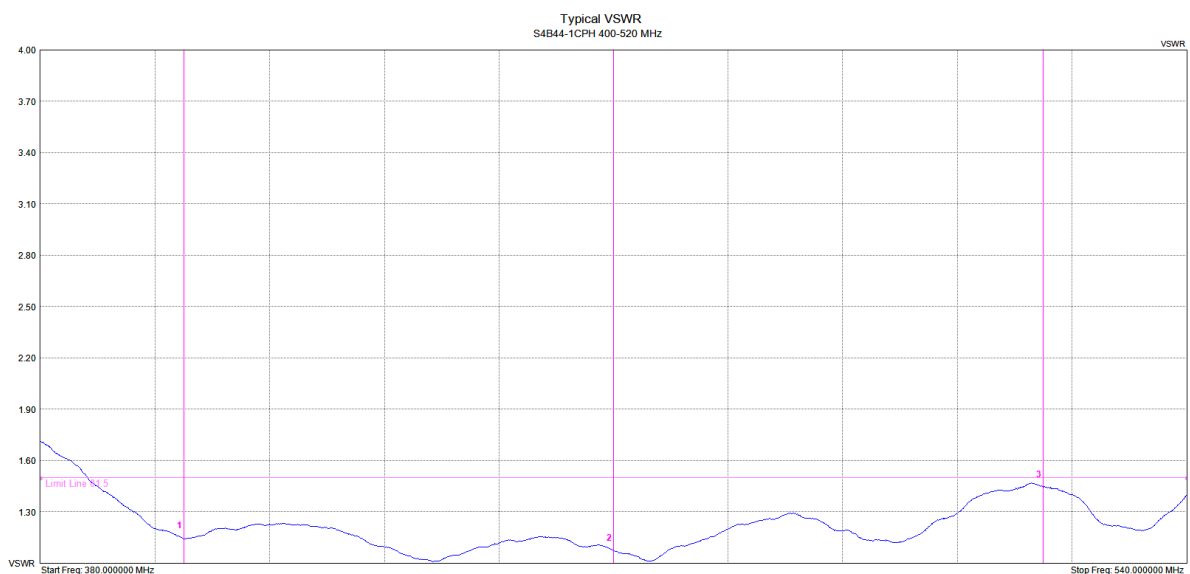
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Example radiation pattern - S4B44-1CPH



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	400 000 MHz	1.15VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	480 000 MHz	1.07VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	520 000 MHz	1.45VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR - S4B44-1CPH



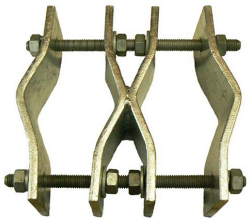
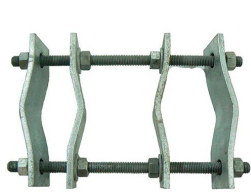
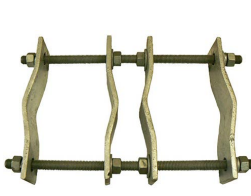
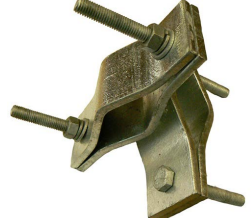

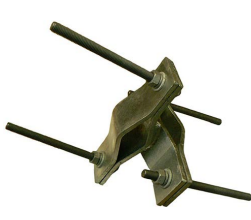
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Suitable mounting hardware

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

Suitable feeder coaxial cable & connectors

 <p>SKU: 7890 RU400 low loss, solid copper core, foam dielectric cable SKU: 7890-2 RU400-UF Ultra flex. Available in 100m, 300m or 500m (UF only) roll or alternatively request a custom cable assembly</p>	 <p>SKU: NM-8226 N-type male solder pin crimp connector for RU400 / RU400-UF coaxial cable Tri-metal plated</p>
 <p>SKU: 7890-3 RU600 low loss, solid copper core, foam dielectric cable Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>SKU: NM-8226-2 N-type male solder pin crimp connector for RU600 coaxial cable Tri-metal plated</p>
 <p>SKU: ZCG1250 1/2" corrugated shielding, foam dielectric coaxial cable SKU: ZCG1250-A - Air dielectric SKU: ZCG1250SF - Helical super flex. Available in per metre (excl. Air) or 500m rolls or alternatively request a custom cable assembly</p>	 <p>SKU: NM1250 N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable Super flex. SKU: NM1250SF Tri-metal plated</p>