



B19-SAR-164-INV

Inverted ruggedised omnidirectional broadband coaxial dipole antenna
VHF high band communications 148-174 MHz



The B19-SAR-164-INV VHF, broadband, ruggedised coaxial dipole provides a high strength, high quality inverted fixed position antenna solution. It is identical in appearance as the standard B19-SAR-164 but is designed for inverted mounting only.

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

Construction	Ruggedised parallel fibreglass radome, stainless steel mount section and inverted cap and termination mount
Frequency range	148-174 MHz - VHF high band
Maximum bandwidth	Full frequency range stated - 26 MHz
VSWR	<1.5:1 at centre and <1.8:1 on edges
Tuning	Factory
Gain	0 dBd - unity
Maximum power	100 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	66°
Connector	N-type female in top of mount section
Height	1.9 metres
Weight	2.4kg
Projected area	0.065m ²
Wind load at 160kph	7.857kg, 0.077kN
Mount section	50.8mm x 480mm - stainless steel to be top of antenna
Mounting hardware order separate	Parallel: 2 x UAM180L or 2 x UAM180UNI Right-angle: 2 x UAM90L or 2 x UAM90UNI Wall/side mounting: 2 x NSM-223
Mounting position recommended	Inverted mount as high as possible on your structure, mast or tower using the appropriate mounting clamps
Installation tools required	Adjustable spanners for mounting clamp attachment. Self-amalgamating butyl rubber tape and uPVC electrical tape for termination sealing.



Antenna top - no drain hole present, water-proof must be applied over termination

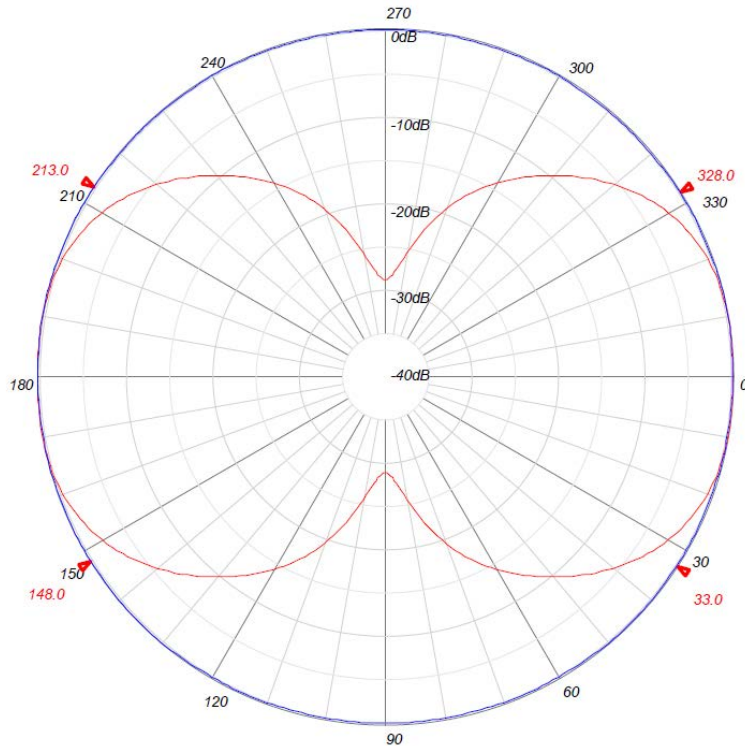


Bottom cap - remove black tab before installation to open drain hole

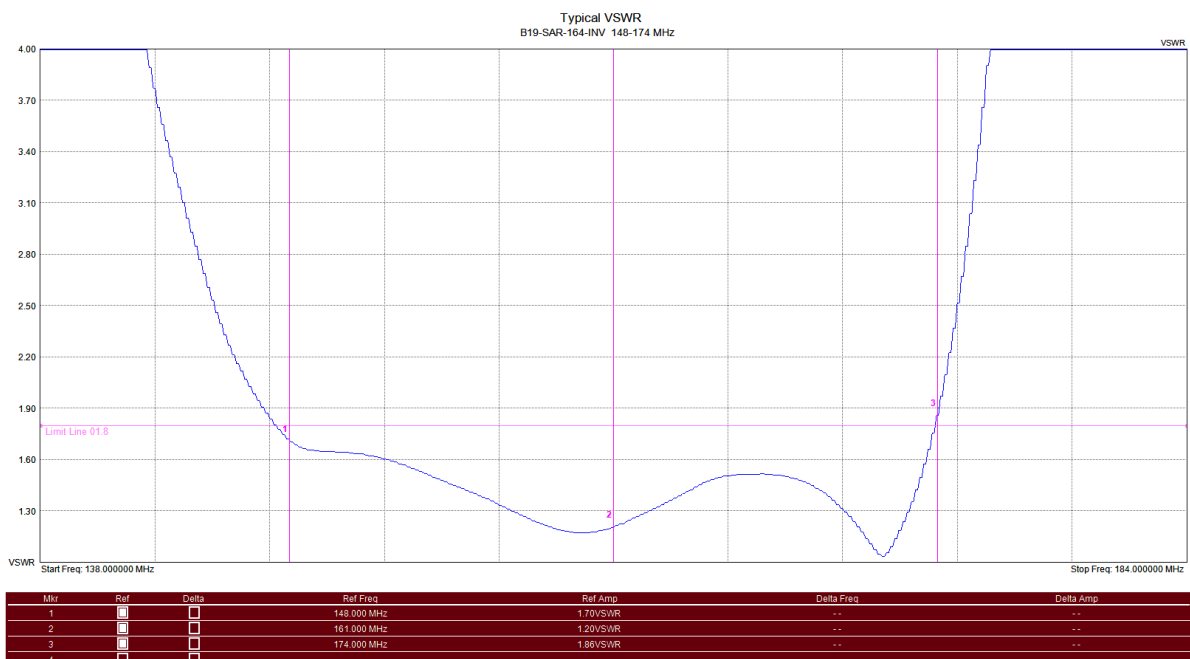


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Example radiation pattern



Typical VSWR



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Suitable mounting hardware

 <p>SKU: UAM180L 2 units recommended Galvanised steel heavy-duty 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

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