

G12

Omni-directional collinear

VHF and Air Band 85-140 MHz

Where medium gain as well as a true omni-directional pattern for Airband communications is required, then consider the G12 collinear. Suitable for either commercial or military applications.

If a power rating higher than 250 watts is required, please contact ZCG Scalar for advice.

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

Construction	White fibreglass radome, anodised aluminium mount section and tri-metal plated termination
Frequency range	85-140 MHz - VHF, including Air band 118-137 MHz
Bandwidth	Specify any 3% or Transmit and Recieve when ordering
VSWR	<1.5:1 across specified bandwidth
Tuning	Factory
Gain	3 dBd
Maximum power	250 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, $\pm 0.5\text{dB}$
E Plane	32°
Connector	N-type female in base of mount section - no cable
Height at 85 MHz	5.6 metres - higher frequencies, height will be reduced
Weight	9.0kg
Projected area	0.14m ²
Wind load at 160kph	17.0kg, 0.170kN
Mount section	600mm x 48mm - anodised aluminium
Mounting hardware order separate	Parallel: 2 x UAM180L or 2 x UAM180UNI Right-angle: 2 x UAM90L or 2 x UAM90UNI

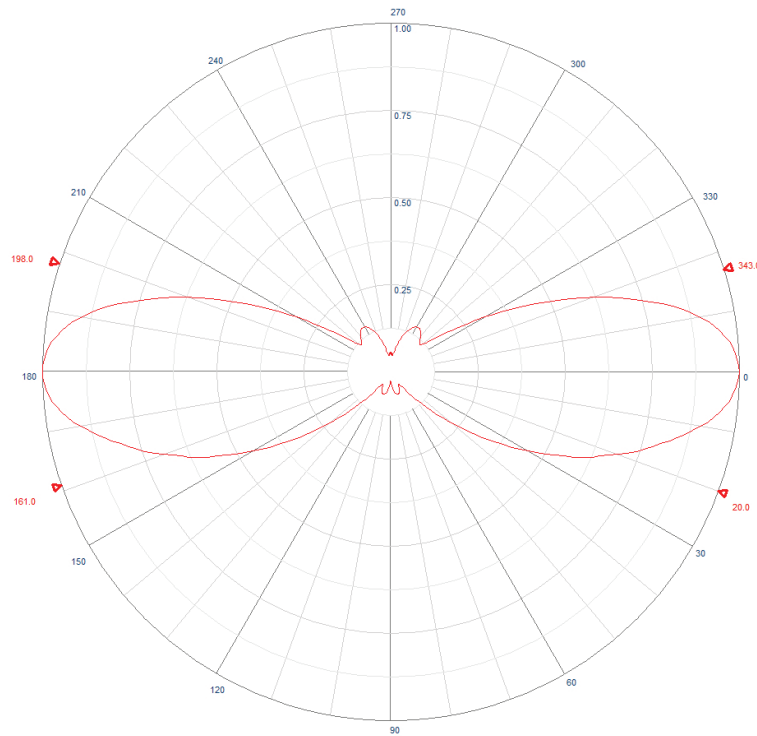


N-type female in base of mount section

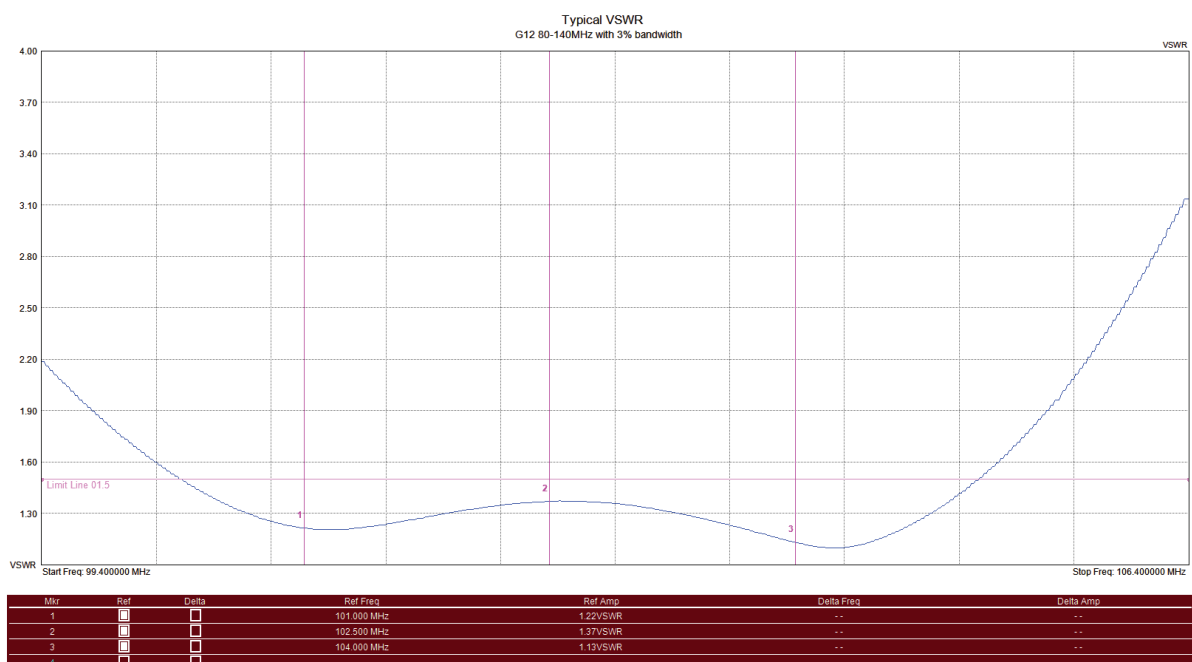


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Example radiation pattern

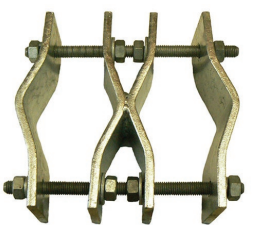
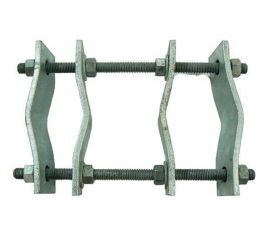
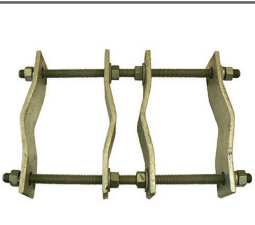





Typical VSWR

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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>