



G40 Series Collinears

Omnidirectional medium to heavy-duty UHF collinear

UHF 380-520 MHz



Our range of UHF omnidirectional fixed position collinears are designed for use within the UHF frequency range 380-520 MHz. The G49R model is a more robust and rugged design and construction, purpose built to survive the most extreme conditions.

Please specify TX and RX frequencies when ordering.

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

SKU	G45	G46	G49	G49R
Construction	White fibreglass radome, mount section, aluminium cap and external termination			Rugged fibreglass radome
Frequency range	380-520 MHz - UHF		430-520 MHz - UHF	380-520 MHz - UHF
Maximum bandwidth	Any 4%	Any 1.5% - specify when ordering		
VSWR	<1.5:1 across specified bandwidth			
Tuning	Factory			
Gain	3 dBd	6 dBd	9 dBd	
Maximum power	250 Watts			
Impedance - nominal	50 Ohms			
DC grounding	Yes			
Polarisation	Vertical			
H Plane	360° omnidirectional, ± 0.5 dBd			
E Plane	32°	16°	9°	9°
Connector	N-type female in base of mount section			
Height at 380 MHz	1.9 metres	3.0 metres	3.5 metres	4.0 metres
Weight	2kg	3kg	4kg	7kg
Projected area	0.057m ²	0.066m ²	0.075m ²	0.117m ²
Wind load at 160kph	5.7kg, 0.056kN	8kg, 0.079kN	9.09kg, 0.089kN	14.9kg, 0.14kN
Mount section	450mm x 32mm anodised aluminium	450mm x 31.75mm 304 stainless steel	550mm x 31.75mm 304 stainless steel	400mm x 48mm thick-walled anodised aluminium
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS			2 x UAM180L/UAM180UNI or 2 x UAM90L/UAM90UNI



Aluminium cap reduces possible environmental damage and improves bird-proofing



N-type female in base of mount section G45-G49

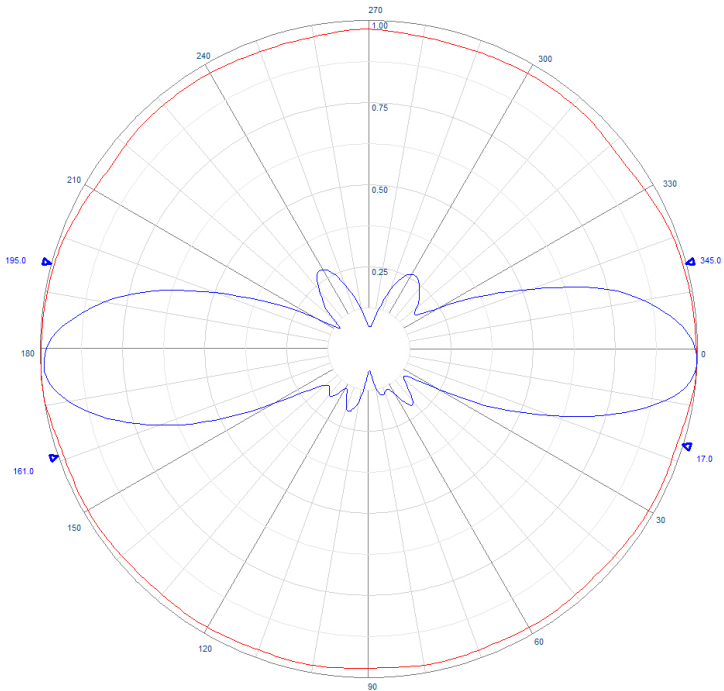


G49R N-type female in rugged anodised mount section

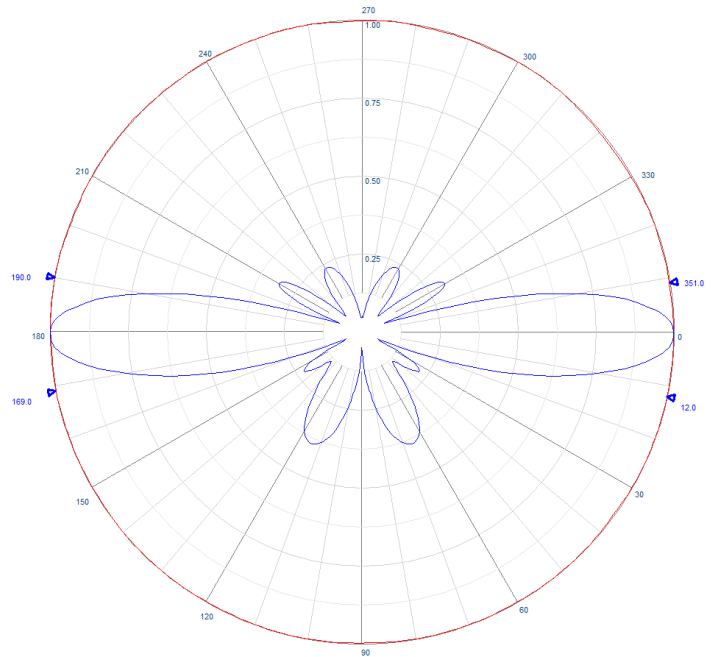


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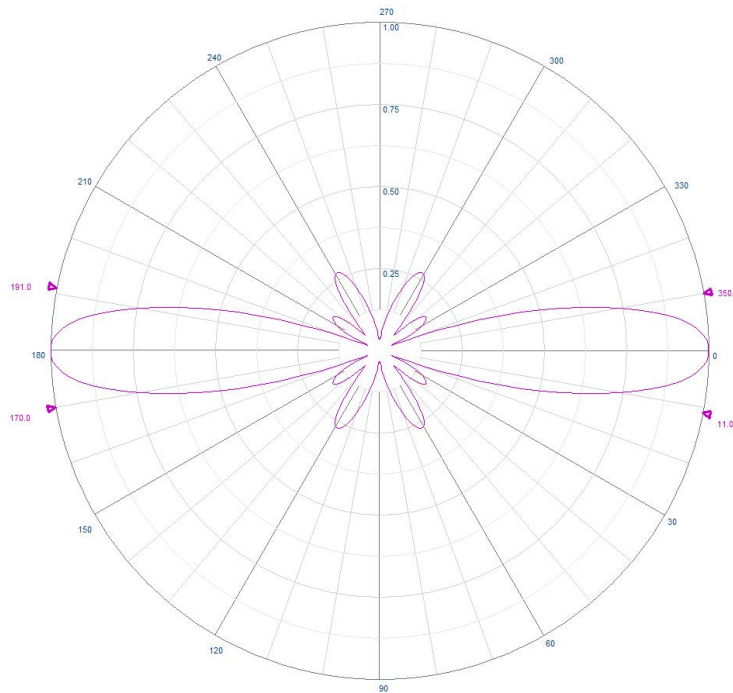
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Example radiation pattern - G45



Example radiation pattern - G46

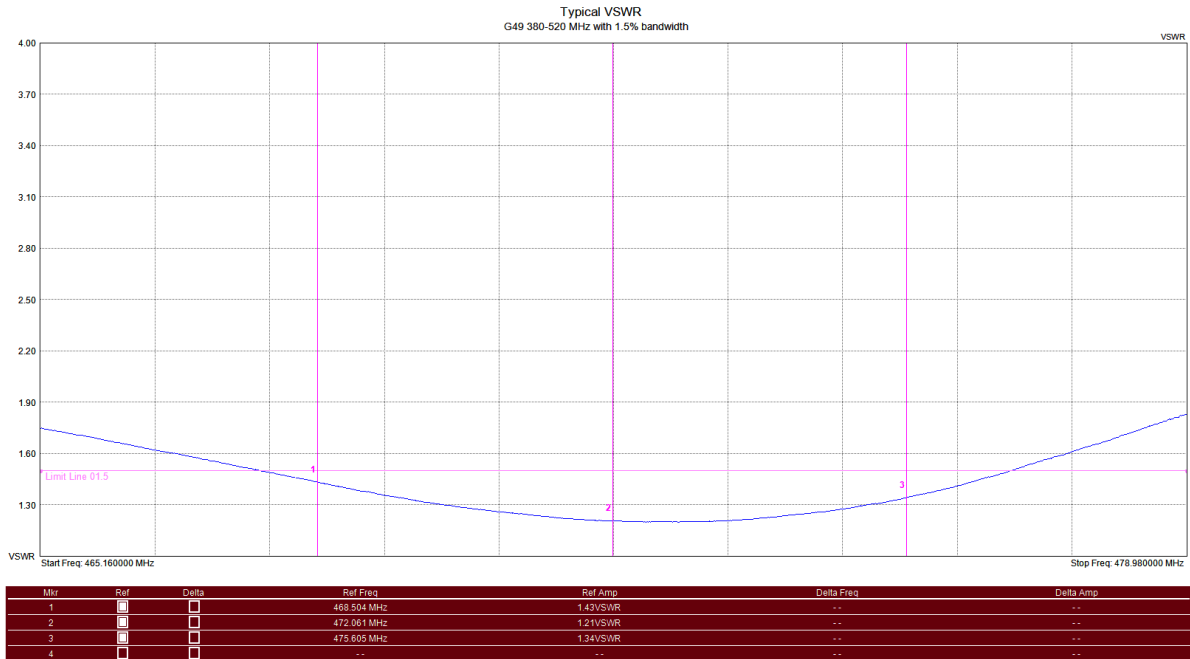


Example radiation pattern - G49R



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Typical VSWR - G49




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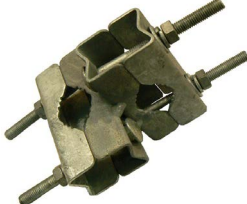
Suitable mounting hardware - G45-G49



SKU: EB1-SS
2 units recommended
 304 stainless steel parallel clamp
 Boom: 20-40mm capability
 Mount pole: 25-45mm capability



SKU: UB3-SS
 304 stainless steel parallel clamp
 Boom: 20-32mm capability
 Mount pole: 20-50mm capability

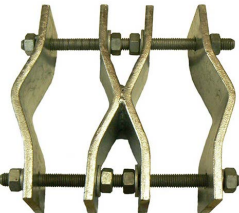


SKU: RB8
2 units recommended
 Galvanised steel steel right-angle clamp
 Boom: 20-50mm capability
 Mount pole: 20-50mm capability

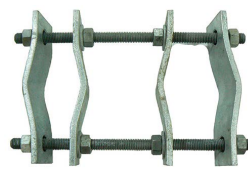


SKU: UB2-SS
 304 stainless steel steel right-angle clamp
 Boom: 20-50mm capability
 Mount pole: 20-50mm capability


Suitable mounting hardware - All series



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



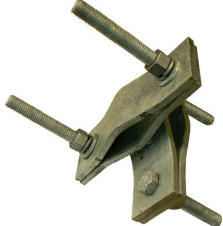
SKU: UAM180UNI
2 units recommended
 Galvanised steel large parallel clamp
 Boom: 40-70mm capability
 Mount pole: 40-90mm capability




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



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Suitable feeder coaxial cable and connectors

 <p>SKU: 7800 MIL-SPEC RG213 stranded copper conductor coaxial cable</p> <p>Available in 100m, 300m roll or alternatively request a custom cable assembly</p>	 <p>SKU: NM-7937 N-type male crimp connector for MIL-SPEC RG213 Tri-metal plated</p>
 <p>SKU: 7808 RG214/U stranded conductor, double braided coaxial cable</p> <p>Available in 100m, 300m roll or alternatively request a custom cable assembly</p>	 <p>SKU: NM-7937-2 N-type male crimp connector for RG214/U, double braid shielded coaxial cable Tri-metal plated</p>
 <p>SKU: 7890 RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave)</p> <p>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: 7890-3 RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (* times microwave)</p> <p>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: ZCG1250SF 1/2" super flexible helical shielded, foam dielectric coaxial cable</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>SKU: NM1250SF N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable Tri-metal plated</p>
 <p>SKU: ZCG1250 1/2" corrugated shielding, foam dielectric coaxial cable</p> <p>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>