



G12HP Series

Omnidirectional FM radio collinear

FM Radio broadcast 87.5-108MHz



The G12HP range of collinears are specifically designed and manufactured for FM radio transmit and receive within the FM radio 87.5-108MHz frequency range.

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

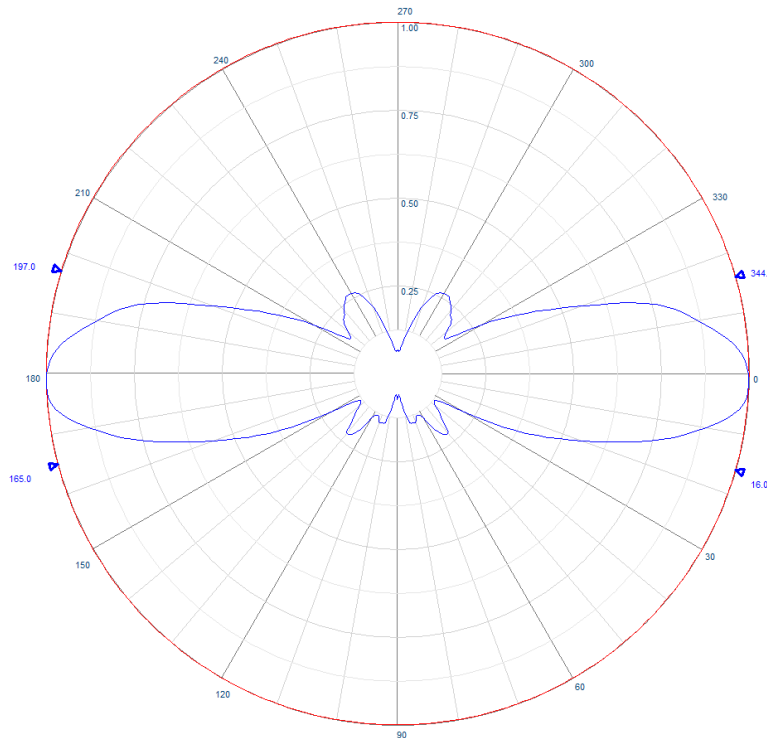
SKU	G12HP	G12VHP	G12FVHP
Construction	White fibreglass tapered radome, aluminium mount section and external termination		
Frequency range	87.5-108 MHz - FM Radio		
Bandwidth	Specify any 2 MHz within frequency range when ordering		
VSWR	<1.2:1 across specified bandwidth		
Tuning	Factory		
Gain	3 dBd		
Maximum power	500 Watts - peak	1 Kilowatt - peak	3 Kilowatt - peak
Impedance	50 Ohms		
DC grounding	Yes		
Polarisation	Vertical		
H Plane	360° omnidirectional ± 0.5 dBd		
E Plane	32° ± 2 dBd		
Connector	N-type female	7/16" DIN female	7/8" EIA flanged
Height - maximum	7.4 metres		7.5 metres
	Higher frequency requirements will reduce height		
Weight	9.0kg	12.0kg	13.0kg
Projected area	0.140m ²		
Wind load at 160kph	17.0kg, 0.170kN		
Mount section	600mm x 48mm - thick walled aluminium		
Mounting hardware order separate	Parallel: 2 x UAM180L or 2 x UAM180UNI Right-angle: 2 x UAM90L or 2 x UAM90UNI		
Warranty	2 Years		



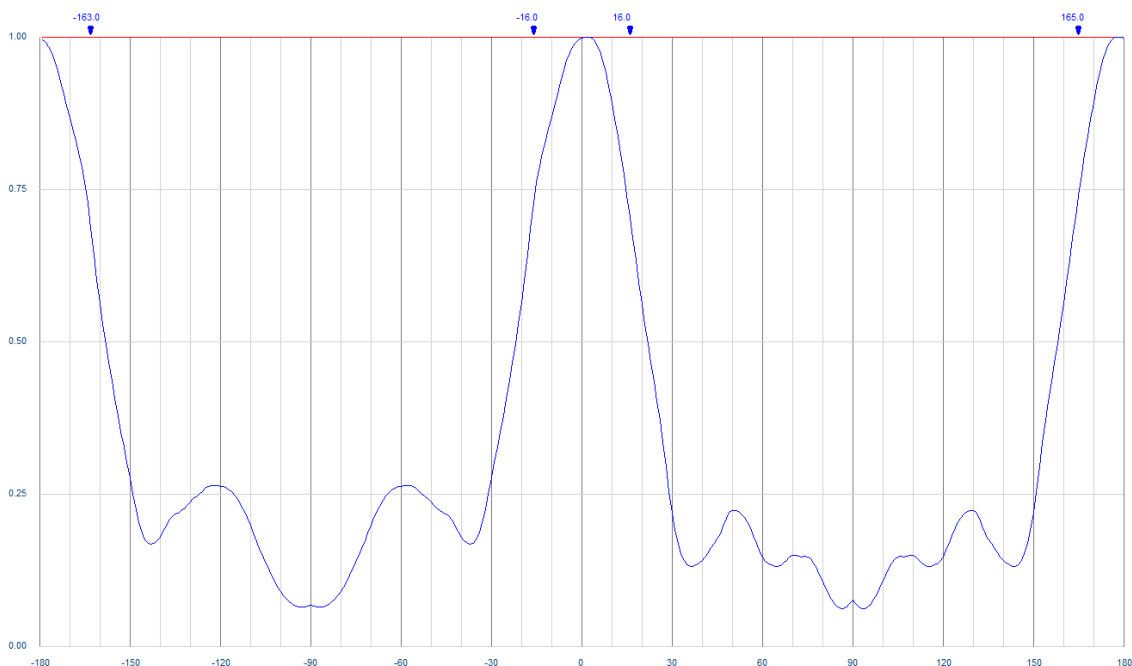


G12HP Series

Omnidirectional FM radio collinear
FM Radio broadcast 87.5-108MHz



Example polar radiation pattern



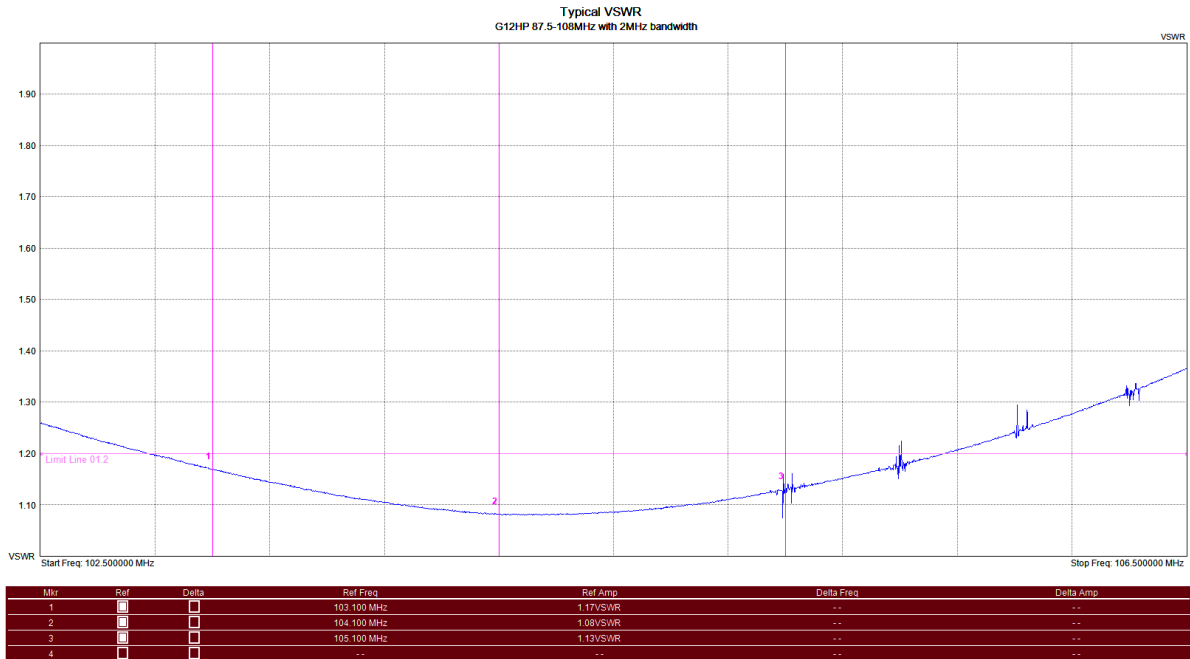
Example cartesian radiation pattern



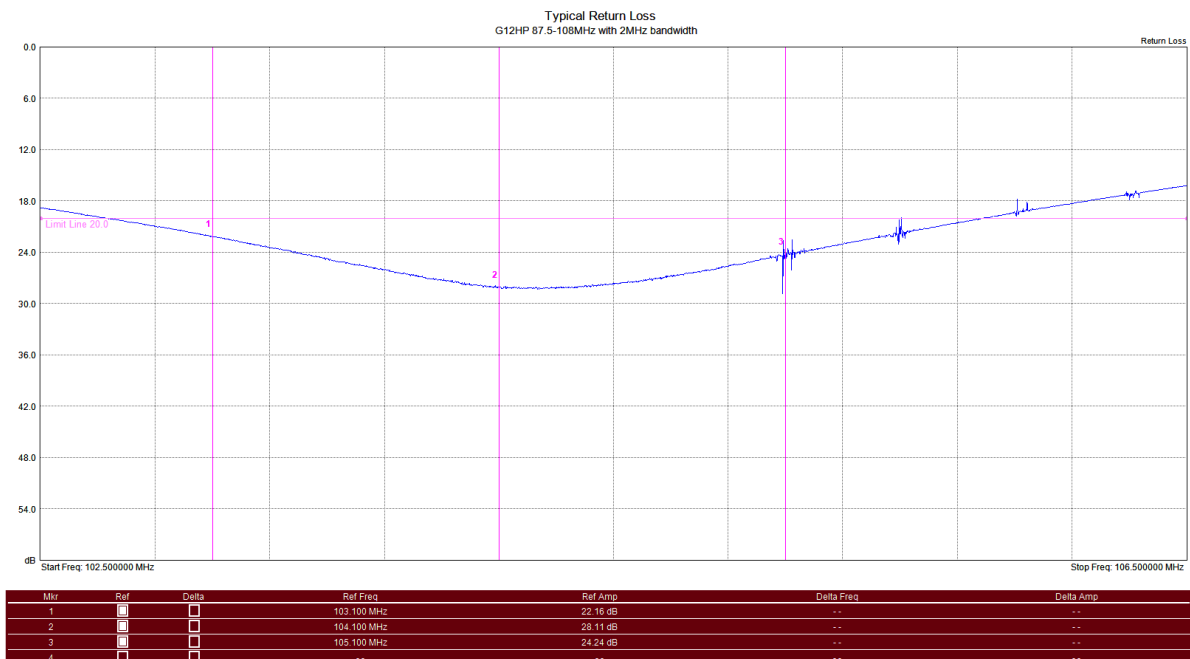
G12HP Series

Omnidirectional FM radio collinear

FM Radio broadcast 87.5-108MHz



Example VSWR



Example Return Loss



G12HP Series

Omnidirectional FM radio collinear

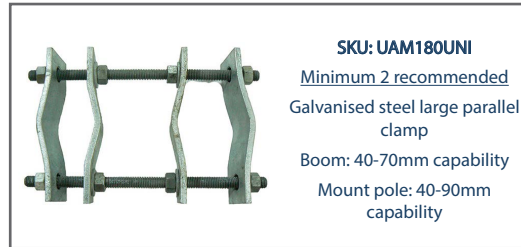
FM Radio broadcast 87.5-108MHz



Suitable mounting hardware



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



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



SKU: UAM180UNIL
Minimum 2 recommended
 Galvanised steel extra large parallel clamp
 Boom: 40-90mm capability
 Mount pole: 60-115mm capability



SKU: UAM90L
Minimum 2 recommended
 Galvanised steel right-angle clamp
 Boom: 40-75mm capability
 Mount pole: 40-75mm capability



SKU: UAM90UNI
Minimum 2 recommended
 Galvanised steel large right-angle clamp
 Boom: 40-70mm capability
 Mount pole: 40-90mm capability



SKU: UAM90LL
Minimum 2 recommended
 Galvanised steel extra large right-angle clamp
 Boom: 60-115mm capability
 Mount pole: 60-115mm capability

Suitable feeder coaxial cable and connectors



SKU: ZCG1250
 1/2" corrugated shielding, foam dielectric coaxial cable
SKU: ZCG1250SF - helical super flex.
 Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM1250
 N-type male clamp connector for 1/2" coaxial cable

SKU: 716DINM1250
 N-type male clamp connector for 1/2" coaxial cable



SKU: 78EIA1250
 7/8" EIA flanged connector for 1/2" flexible, corrugated shielded, coaxial cable



SKU: ZCG7850
 7/8" corrugated shielding, foam dielectric coaxial cable
SKU: ZCG7850-A - Air-dielectric
 Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM7850
 N-type male clamp connector for 1/2" coaxial cable

SKU: 716DINM7850
 N-type male clamp connector for 1/2" coaxial cable

SKU: 78EIA7850
 N-type male clamp connector for 1/2" coaxial cable