

B51H-SS

Omnidirectional broadband VHF & UHF discone antenna VHF & UHF 70-1000 MHz



The B51H-SS broadband fixed position discone provides an omnidirectional radiation pattern, low VSWR and genuine broadband coverage for both transmit and receive across the full VHF & UHF frequency band 70-1000MHz.

Please note: the B51H-SS radials are supplied disassembled for reduced courier cost, assembly on-site is required.

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

Construction	304 grade stainless steel body and anodised aluminium main assembly	
Frequency range	70-1000 MHz - VHF and UHF	
Bandwidth	Full frequency range stated	
VSWR	Average: <2:1	Maximum: <2.8:1
Tuning	Factory	
Gain	0 dBd - unity	
Max input power	100 Watts	
Impedance	50 Ohms	
DC grounding	No - surge protector recommended	
Polarisation	Vertical	
H Plane	360° omnidirectional, ± 0.5 dBd	
E Plane	83° at 100 MHz	
Connector	N-type female in base of mount section	
Height	1.2 metres	
Weight	9.5kg	
Projected area	0.128m ²	
Wind load at 160kph	15.501kg, 0.152kN	
Mounting section	40mm x 300mm	
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS	
Installation tools required	<ul style="list-style-type: none"> - 13mm spanner for radial securing - required - 2.0mm allen key - supplied - Vibration dampers for radials - supplied - Amalgamation butyl rubber tape and PVC tape for connector sealing 	



Upgraded radials and head with radial supports



N-type female termination in base of mount section

LA-1792

LA-1793-2

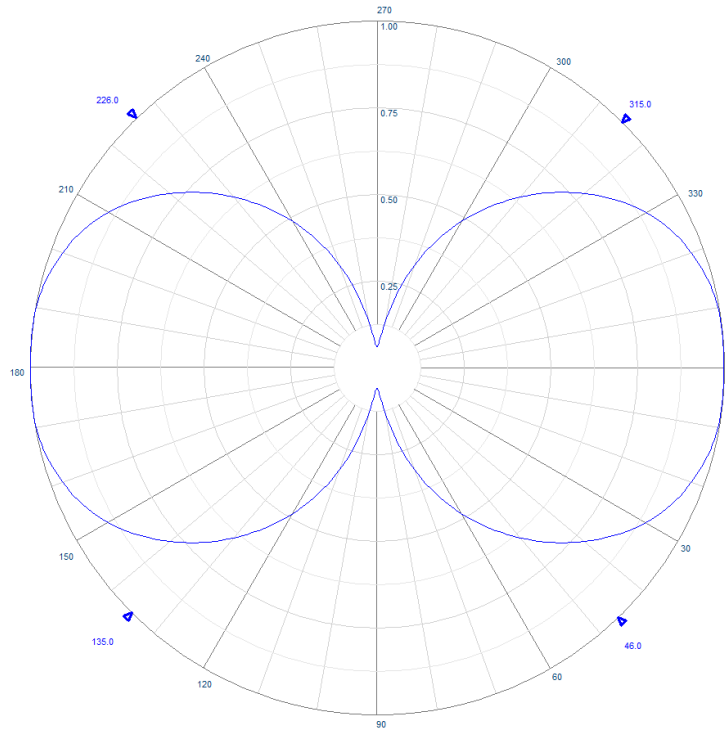


Recommended: Surge protection for DC grounding at base of coaxial cable run before transmitter/receiver - alternate terminations available

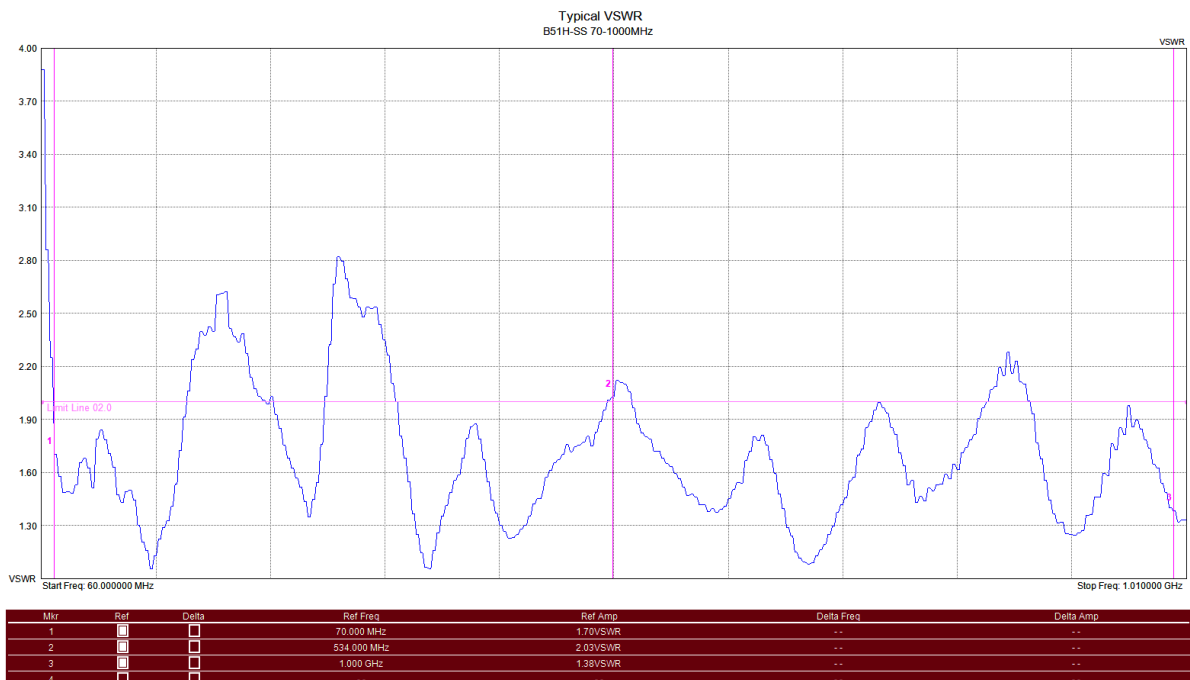


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Example radiation pattern



Typical VSWR



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Improved Product


Australian
manufactured
in
East Gippsland

Build
To
Order


Suitable mounting hardware



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 right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability



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

Suitable feeder coaxial cable and connectors



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



SKU: NM-8226
N-type male crimp connector for RU400 low loss, solid conductor
Tri-metal plated



SKU: 7890-3
RU600 Solid copper conductor, low loss coaxial cable
LMR-600™ equivalent
(* times microwave)
Available in 500m roll or alternatively request a custom cable assembly



SKU: NM-8226-2
N-type male crimp connector for RU600 low loss, solid conductor
Tri-metal plated



SKU: ZCG1250SF
1/2" super flexible helical shielded, foam dielectric coaxial cable
Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM1250SF
N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable
Tri-metal plated



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



SKU: NM1250
N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable
Tri-metal plated