B51H-SS

Omni-directional broadband discone
VHF/UHF 70-1000MHz

Build To Order

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

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	VHF & UHF 70-1000MHz	
Bandwidth	Full frequency range	
VSWR	Average: <2:1	Maximum: <2.8:1
Tuning	Factory	
Gain	0dBd	
Max input power	100 Watts	
Impedance	50 Ohms	
DC grounding	No - surge protector recommended	
Polarisation	Vertical	
H Plane	360° omni-directional, ± 0.5dBd	
E Plane	83° at 100MHz	
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	13mm spanner for radial securing - required 2.0mm allen key - supplied Vibration dampers for raidials - supplied	

Upgraded radials and head with radial supports

N-type female termination in base of mount section

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

EB1-SS

UB3-SS

RB8

UB2-SS

1 Year Manufacturers Warranty
Terms & Conditions apply.

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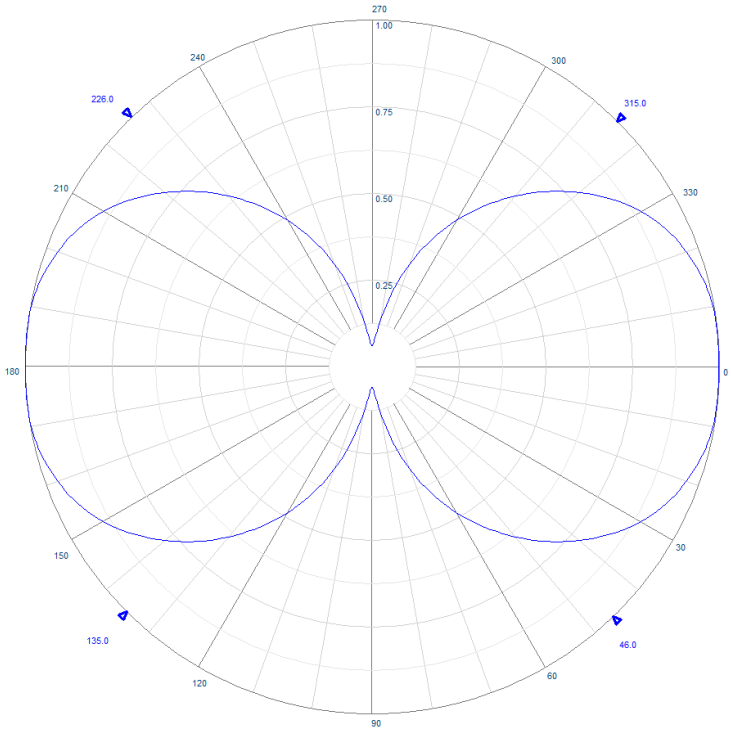
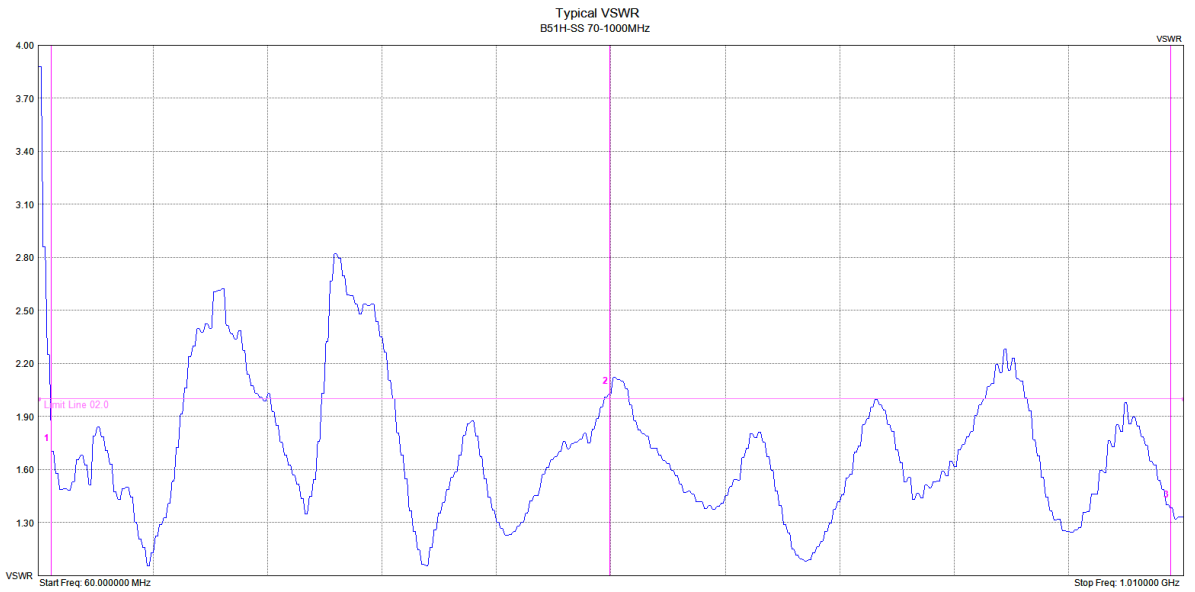


Example radiation pattern



Mkr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1			70.000 MHz	1.70VSWR	- -	- -
2			534.000 MHz	2.03VSWR	- -	- -
3			1.000 GHz	1.38VSWR	- -	- -
4			- -	- -	- -	- -

Typical VSWR

B51H and B51H-SS

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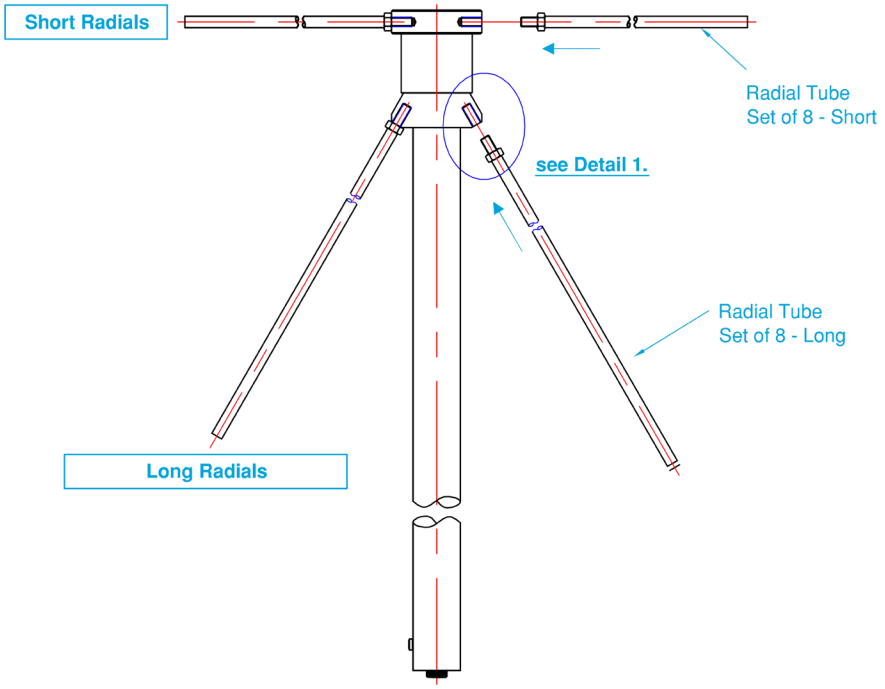
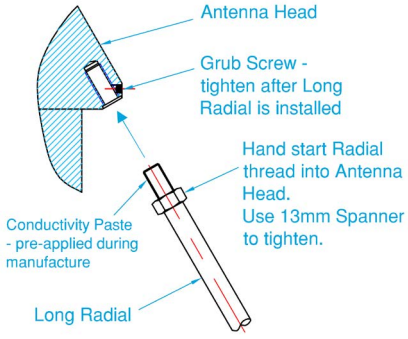
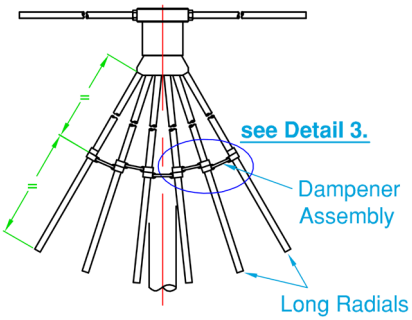
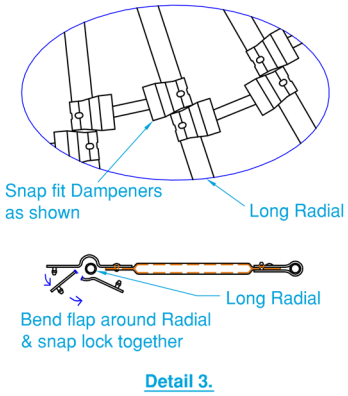




Detail 1.



Detail 2.



Detail 3.

Assembly Notes:

1. The Antenna has two sets of 8 x Radial Tubes -
   - Short length - assembled horizontally
   - Long length - assembled at angle
2. The Radial Tube mounting threads have Conductivity Paste pre-applied during manufacture.
3. Screw fit each Radial Tube as shown.
4. Use the 13mm spanner to tighten each Radial into the Antenna Head.
5. Check each Radial is screwed in tight.
6. Use supplied Allen Key and tighten Grub Screws to secure the Long Radials.
7. Snap fit supplied Dampener Assemblies to approx. centre point of Long Radials - see Details 2. & 3.