



B88 Series Sidemount Dipoles

Flange or mast mount sidemount dipoles

UHF 800-960 MHz



The B88 series of sidemount dipoles provide genuine broadband coverage in the UHF/mobile phone frequency range 800-960 MHz. Traditionally folded dipoles are mounted so as to use the mast or tower as a reflector. Pattern formation and gain can be varied by altering dipole to mast spacing, or by mounting in stack array formations.

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

SKU	B88SS	B88F*
Construction	Fully-welded 304 grade stainless steel dipole and frame	Fully-welded 304 grade stainless steel component and PVC flange mount
Frequency range	800-960 MHz - UHF or Cellular	
Bandwidth	Full frequency range stated above - 160 MHz	
Tuning	Factory	
VSWR	<1.5:1	
Gain	0 dBd for a single bay, stacking increases gain	
Maximum power	25 Watts	
Impedance - nominal	50 Ohms	
E and H Plane	Varies according to the mounting arrangement	
Polarisation	Mount horizontal or vertical as required	
DC grounding	Yes	
Cable tail	600mm MIL-SPEC RG58 A/U - bottom exits mount section	
Connector	N-type female fitted as standard or specify requirements	
Dipole height	150mm	
Stand-off	25mm x 300mm	
Weight	400grams	410grams
Wind load at 160kph	1.103kg, 0.011kN	
Mounting B88 order separate	Parallel: 1 x EB1-SS or 1 x UB3-SS Right-angle 1 x RB8/RB8-L 1 x UB2-SS	
Mounting B88F	PVC flange fitted to base, mount using 2 screws or bolts	
Mounting position recommended	Mount as high as possible on your structure, mast or tower using the appropriate bracket or flange mount	
Installation tools required	Adjustable spanners for mounting clamp attachment. Self-amalgamating butyl rubber tape and uPVC electrical tape for termination sealing.	



B88SS and cable exit from base



B88F with flange mount and cable exit from base and side of flange mount

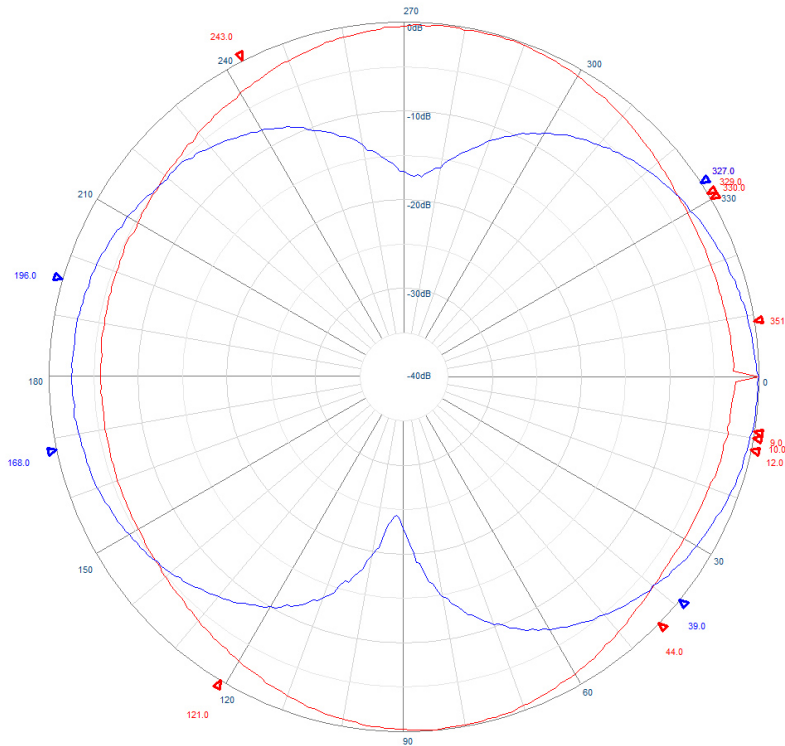


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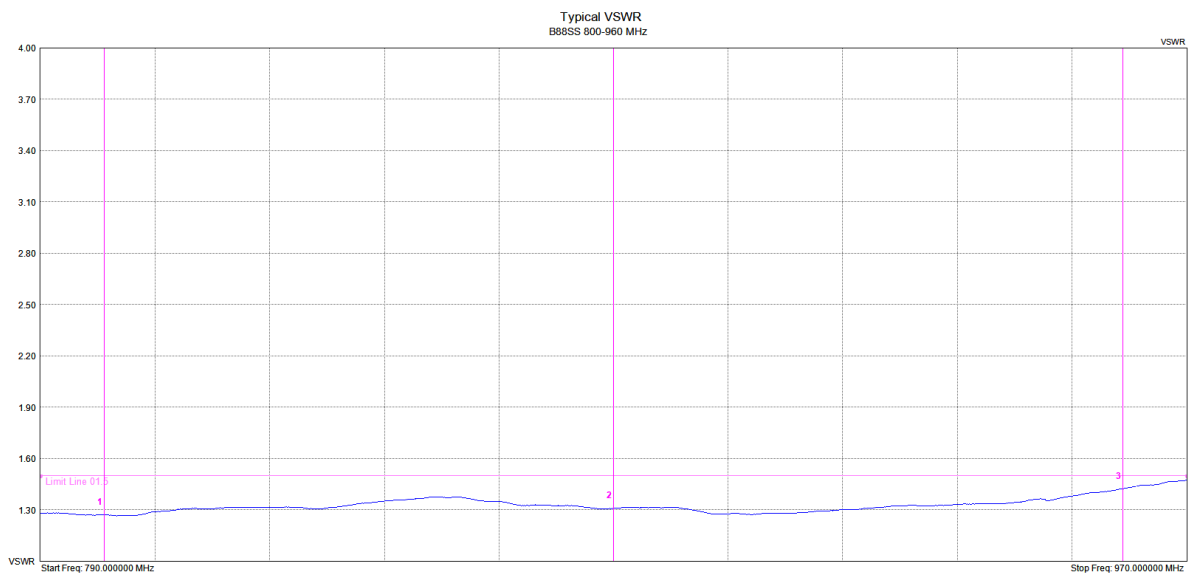
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 **In-stock
Ready to
Ship**
* Signifies build to
order item



Example radiation pattern



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	800 000 MHz	1.27VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	880 000 MHz	1.31VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	960 000 MHz	1.43VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR





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Mechanical Data

Height of array	Subject to configuration
Total net weight	Refer to table
Wind Load	Refer to table
Mounting hardware	One clamp per dipole - order separate

Technical Data

Configuration	Off-set	Gain - dBd	Weight - kg	Antenna height L - m	Wind load - kN
1 dipole	0.9 λ	0	0.4/0.41	0.15	0.011
2 dipoles		3.0	0.8 / 0.82	0.46	0.022
4 dipoles		7.5	1.6 / 1.64	1.06	0.044
6 dipoles		9.8	2.4 / 2.46	1.68	0.066
8 dipoles		11.0	3.2 / 3.28	2.3	0.088

- Gain: referred to half wave dipole, losses of power through cable or power dividers not included
- Weight: does not include mounting hardware, power dividers/phasing harness, brach feeder coaxial cables or mount poles
- Wind load: V = 160km/h
- Height: calculated at centre frequency of frequency range, alterations should be account for when using alternate frequencies




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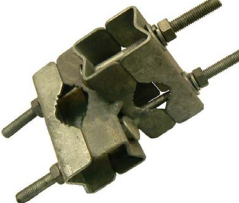
Suitable mounting hardware



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



SKU: CFB** series**
Galvanised steel 'J' hockey stick brackets, 1.1 - 2.7 metres.

Requires mounting screws/bolts and mounting hardware for antenna



SKU: SFB900
Galvanised steel pole extension 900mm
Available up to 2.0 metres
Roof or overhang mounting
Requires mounting screws/bolts and mounting hardware for antenna



NBS Anodised aluminium telescopic masts
2 to 6 sections
3-16 metre extended
Quick-install mounts available
[Contact us for more info.](#)

Suitable feeder coaxial cable and connectors



SKU: 7890
RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)
Available in 100m, 300m, 500m rolls 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