



B14 and B18

Omnidirectional coaxial dipole antennas

VHF Air Band communications 118-137 MHz



The B14 and B18 omni-directional coaxial dipoles are effective and economical Air Band 118-137 MHz antenna solution. Suitable for narrow airport channel communications such as at regional airports or for channel specific communications.

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

SKU	B14	B18
Construction	White fibreglass radome, 304 stainless steel mount section	
Frequency range	118-137 MHz - VHF Air Band communications	
Maximum bandwidth	Specify any 3% or Transmit and Recieve when ordering	
VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	
Gain	0 dBd - unity	
Maximum power	100 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omnidirectional, ± 0.5dB	
E Plane	46°	
Connector	N-type female in base of mount section	
Height at 118MHz	3 metres, at higher frequencies height will reduce	2.1 metres, at higher frequencies height will reduce
Weight	1.0kg	1.9kg
Projected area	0.063m ²	
Wind load at 160kph	7.674kg, 0.075kN	
Mount section	500mm x 30mm	
Mounting requirements	At 118MHz, minimum 2 metre distance from any vertical structure to ensure stated performance levels	
Mouting 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	Adjustable spanners for mounting clamp attachment. Self-amalgamating butyl rubber tape and uPVC electrical tape for termination sealing.	



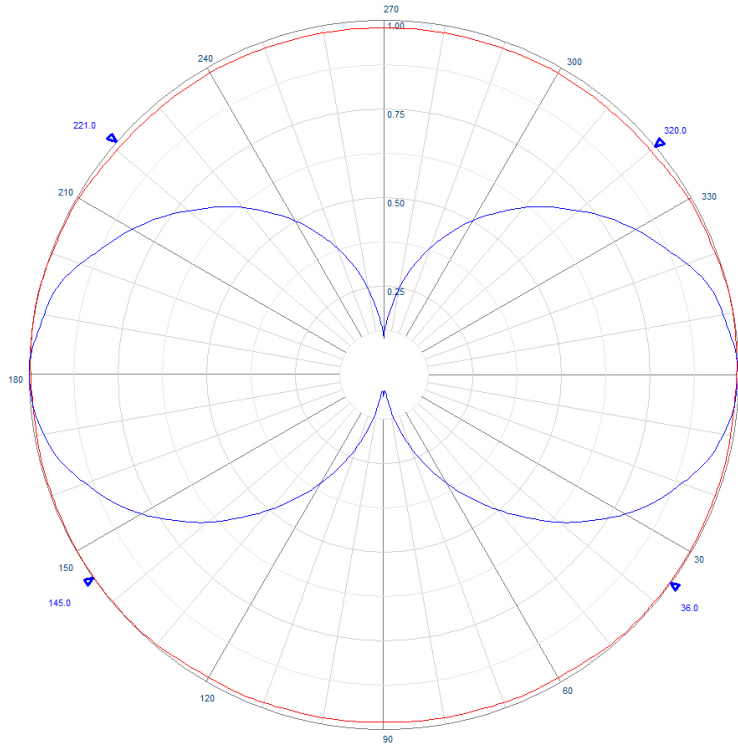
N-type female in base of mount section.



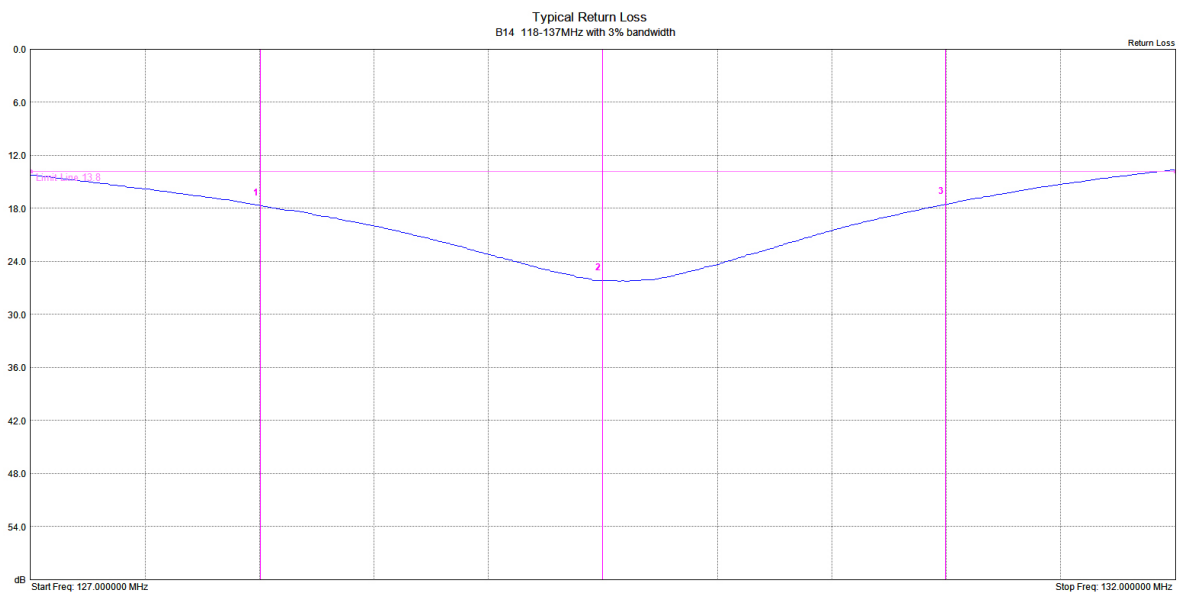
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Example radiation pattern



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	128.004 MHz	17.65 dB	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	129.500 MHz	26.19 dB	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	130.996 MHz	17.50 dB	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss




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Suitable mounting hardware



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



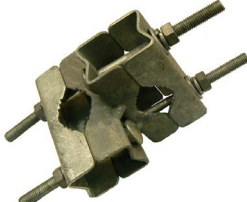
SKU: EB1-SS
2 units recommended
304 stainless steel parallel clamp

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: 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

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