



B15

Omnidirectional unity gain coaxial dipole antenna

VHF 220-235 MHz



The B15 VHF coaxial dipole provides an economical fixed position antenna solution with no compromise in either quality of construction or performance. It is ideal for omnidirectional low power transmit and receive applications up to 100 Watts.

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

Construction	White parallel fibreglass radome, clear anodised aluminium cap, 304 stainless steel mount section and external N-female termination
Frequency range	220-235 MHz - VHF
Bandwidth	Specify any 3% when ordering
VSWR	<1.5:1 VSWR across specified bandwidth
Tuning	Factory
Gain	2.1 dBi
Maximum power	100 Watts
Impedance - nominal	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	66°
Connector	N-type female in base of mount section - no cable
Height	1.5 metres - when scaled at 220 MHz
Weight	2.3kg
Projected area	0.04m ²
Wind load at 160kph	3.5kg, 0.035kN
Mount section	450mm x 31.75mmØ - 304 stainless steel
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS - 30-50mm capability Right-angle: 2 x RB8 or 1 x UB2-SS - 30-50mm capability For larger mount capabilities contact ZCG.
Mounting position recommended	Mount as high as possible on your structure, mast or tower using the appropriate mounting clamp/s
Installation tools required	Adjustable spanners for mounting clamp attachment. Self-amalgamating butyl rubber tape and uPVC electrical tape for termination sealing.



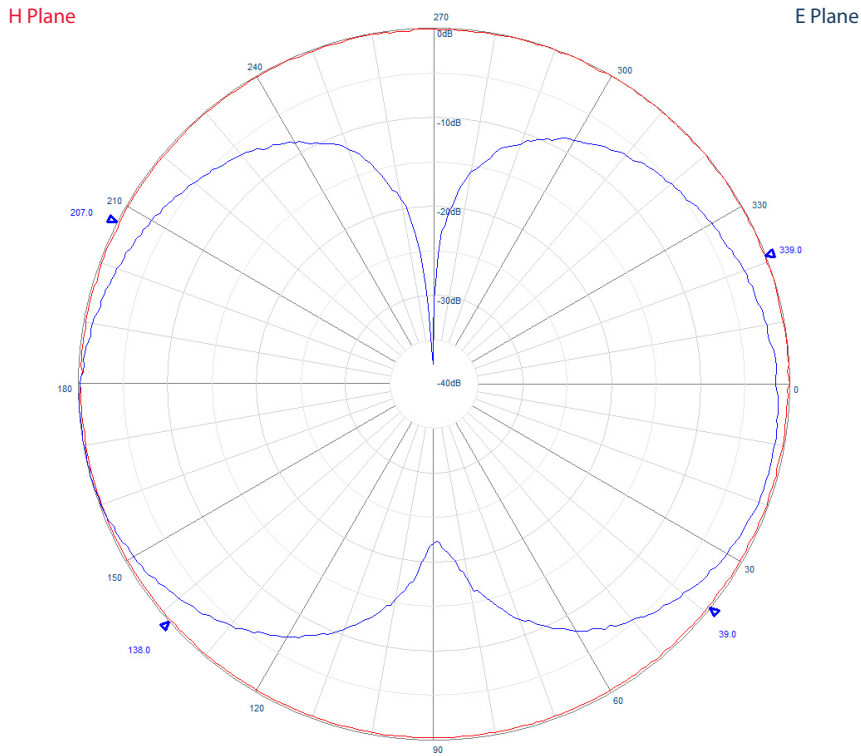
N-type female in base of mount section



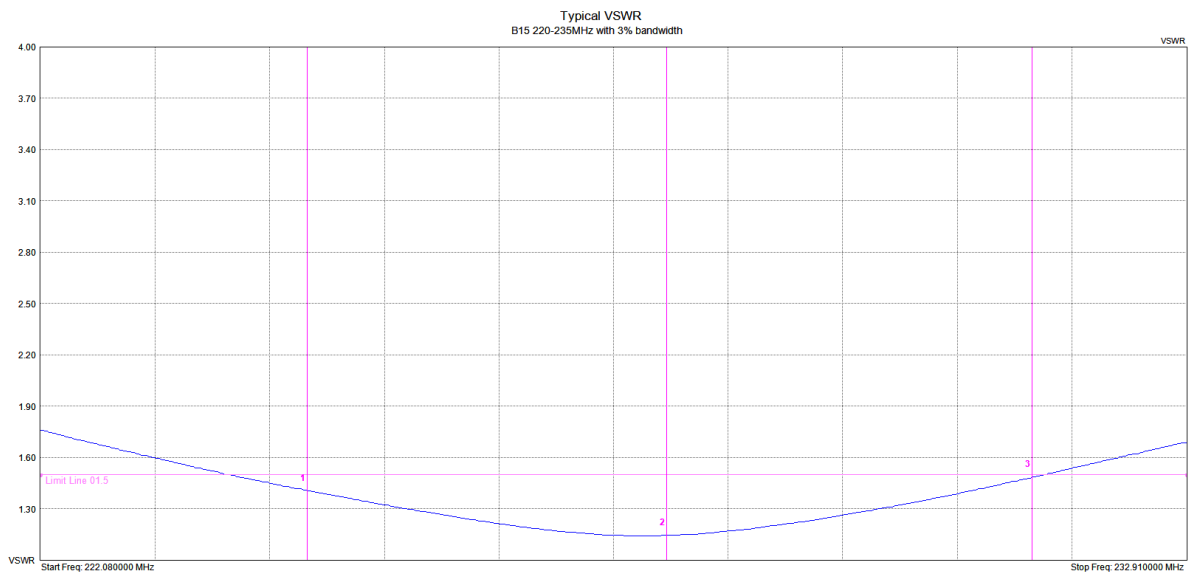
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Example radiation pattern



Mkr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	224.600 MHz	1.41VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	228.000 MHz	1.15VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	231.454 MHz	1.49VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>			--	--

Typical VSWR






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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.](#)




SKU: NSM-CL3642
2 units recommended
Toughened white nylon wall
mount

Boom: 32mm capability
13mm mount hole required




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: 7800
MIL-SPEC RG213 stranded
conductor, solid PE dielectric
coaxial cable

Available in 100m or 300m
roll or alternatively request a
custom cable assembly



SKU: NM-7937
N-type male crimp connector
for MIL-SPEC RG213

Tri-metal plated



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