



## B205B

### Semi-omnidirectional broadband sidemount dipole

#### VHF band III or DAB Radio 174-230 MHz

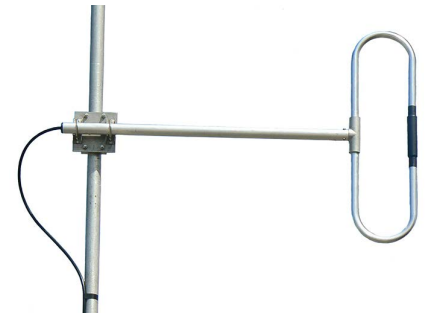


The B205B sidemount dipole is specifically designed and manufactured for low power VHF band III or DAB Radio receive applications within the 174-230 MHz frequency range

For a DAB Radio broadcast compatible dipole with 1.2:1 VSWR, please utilise the B205BSS 304 stainless steel sidemount dipole.

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

Construction	Corrosion resistant aluminium components, external cable and termination
Frequency range	174-230 MHz - VHF band III and DAB Radio
Bandwidth	Full frequency range stated - 56 MHz
Tuning	Factory
VSWR	<1.5:1
Gain	0 dBd for a single bay, stacking increases gain
Maximum power	500 Watts per bay
Impedance	50 Ohms
DC grounding	Yes
Polarisation	Mount horizontal or vertical as required
H Plane	Semi-omnidirectional
Cable	1.0 metre MIL-SPEC RG213 - rear exit from mount section
Connector	N-type female fitted to cable as standard or specify requirements
Dipole height	670mm
Weight	3.0kg
Projected area	0.045m <sup>2</sup>
Mount section	1.0m x 38mm
Wind load at 160kph	5.5kg, 0.055kN
Mounting hardware order separate	1 x Y2300 - 30-50mm mount pole capability 1 x Y2300-L - 40-75mm mount pole capability 1 x Y2300-XL - 50-90mm mount pole capability
Installation tools required	8mm spanner for dipole to handle assembly. Self-amalgamating butyl rubber tape and uPVC electrical tape for termination sealing.



Cable exit from rear of handle



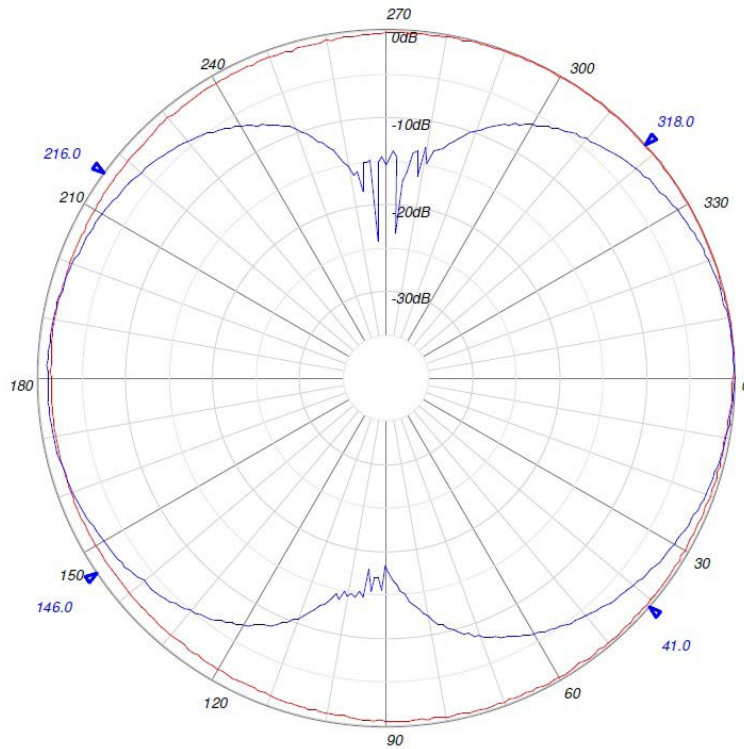
N-type female fitted as standard or specify requirements



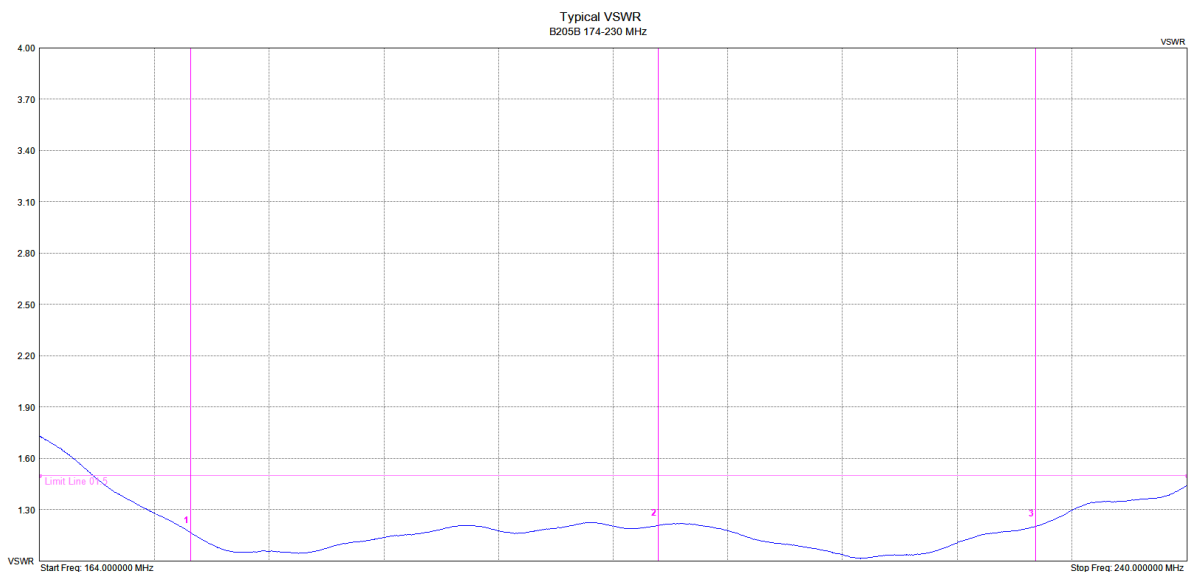
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Example radiation pattern



Min	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	174.000 MHz	1.10 VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	205.000 MHz	1.20 VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	230.000 MHz	1.20 VSWR	--	--
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	3.0	0.67	0.055
2 dipoles		3.0	6.1	2.1	0.11
4 dipoles		7.5	12.3	5.1	0.22
6 dipoles		9.8	18.5	8.1	0.33
8 dipoles		11.0	24.7	11.1	0.44

- 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

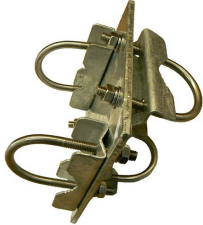


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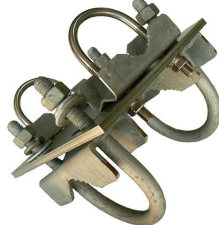
### Semi-omnidirectional broadband sidemount dipole

#### VHF band III or DAB Radio 174-230 MHz

##### Suitable mounting hardware



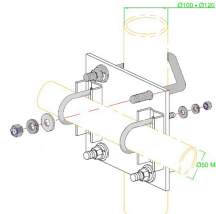
**SKU: Y2300**  
Galvanised steel right-angle round boom Yagi clamp  
**SKU: Y2300SS - stainless steel**  
Boom: 30-50mm capability  
Mount pole: 30-50mm capability



**SKU: Y2300-L**  
Galvanised steel large right-angle round boom Yagi clamp  
**SKU: Y2300SS-L - stainless steel**  
Boom: 32-50mm capability  
Mount pole: 40-75mm capability




**SKU: Y2300-XL**  
Galvanised steel extra large right-angle round boom Yagi clamp  
**SKU: Y2300SS-XL - stainless steel**  
Boom: 32-50mm capability  
Mount pole: 50-90mm capability



**SKU: C-125**  
Galvanised steel extra large right-angle round boom Yagi clamp  
Boom: 32-50mm capability  
Mount pole: 100-125mm capability


##### 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



**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