





## B205B series

## Semi-omnidirectional sidemount dipole VHF Digital TV / DAB Radio 174-230 MHz



The B205BSS is a sidemount dipole specifically designed and manufactured for DAB+ Radio (digital audio broadcast) or for low power VHF TV broadcast within VHF band III.

The B205BSS is utilised by DAB broadcasters as a stand-by antenna for scheduled maintenance or possible main array down-time.

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

Construction	304 grade stainless steel components, external cable and termination		
Frequency range	VHF Digital TV Band III / DAB Radio 174-230 MHz		
Bandwidth	Specify transmit frequency when ordering		
Tuning	Factory		
VSWR	<1.2:1		
Gain	0dBd for a single bay, stacking increases gain		
Maximum power	500 Watts		
Impedance	50 Ohms		
DC grounding	Yes		
Polarisation	Mount horizontal or vertical as required		
H Plane	Semi-omnidirectional		
Cable tail	1.0 metre MIL-SPEC RG213 - rear exit from mount section		
Connector	N-type female jack fitted to cable or specify requirements		
Dipole height	670mm		
Weight	3.0kg		
Projected area	0.045m²		
Mount section	1.0m x 38mm		
Wind load at 160kph	5.5kg, 0.055kN		
Mounting hardware	1 x Y23005S, Y2300SS-L or Y2300SS-XL - order separately		
Installation tools required	8mm spanner for dipole to mount section securing Amalgamation butyl rubber tape and PVC tape for sealing		
Warranty	2 Years		





RG213 coaxial cable rear exit from mount section



N-type female fitted as standard



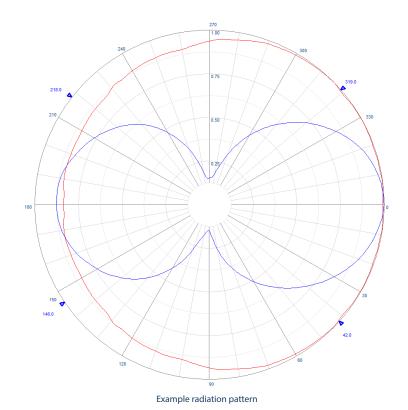


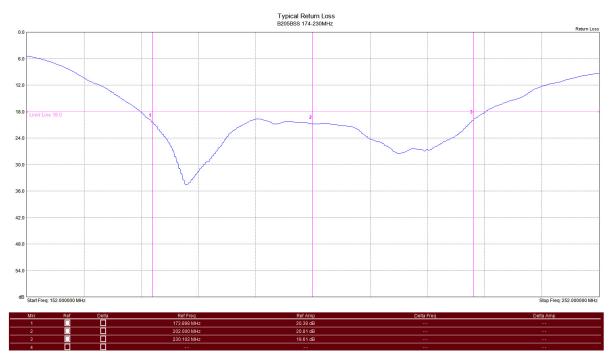


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Typical VSWR









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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

 $<sup>\</sup>hbox{-} \ {\sf Gain:} \ {\sf referred} \ {\sf to} \ {\sf half} \ {\sf wave} \ {\sf dipole,} \ {\sf losses} \ {\sf of} \ {\sf power} \ {\sf through} \ {\sf cable} \ {\sf or} \ {\sf power} \ {\sf dividers} \ {\sf not} \ {\sf included}$ 

 $<sup>-</sup> Weight: does \ not \ include \ mounting \ hardware, power \ dividers/phasing \ harness, brach feeder \ coaxial \ cables \ or \ mount \ poles$ 

<sup>-</sup> Wind load: V = 160km/h



# Section 1 Report A





## **B205BSS**

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#### Y2300

Galvanised steel right-angle round boom Yagi clamp Boom: 30-50mm capability Mount pole: 30-50mm capability

Also available in stainless steel



#### Y2300-XL

Galvanised steel extra large right-angle round boom Yagi clamp

Boom: 32-50mm capability Mount pole: 50-90mm

capability Also available in stainless steel

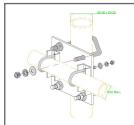


#### Y2300-L

Galvanised steel large rightangle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 40-75mm

capability

Also available in stainless steel



Galvanised steel extra large right-angle round boom Yagi

Boom: 32-50mm capability Mount pole: 100-125mm capability

#### Suitable feeder coaxial cable and connectors



RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent

#### P/N 7890-2

Available in 500m roll or alternatively request a custom cable assembly



1/2" super flexible helical shielded, foam dielectric coaxial cable

#### P/N ZCG1250SF

Available in per metre, 500m roll or alternatively request a custom cable assembly



1/2" corrugated shielding, foam dielectric coaxial cable

#### P/N ZCG1250

Available in per metre, 500m roll or alternatively request a custom cable assembly



7/8" corrugated shielding, foam dielectric coaxial cable

#### P/N ZCG7850

Available in per metre, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor

P/N 8226-2

Tri-metal plated



N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable

P/N NM1250SF

Tri-metal plated



N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable

P/N NM1250

Tri-metal plated



N-type male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable

P/N NM7850

Tri-metal plated

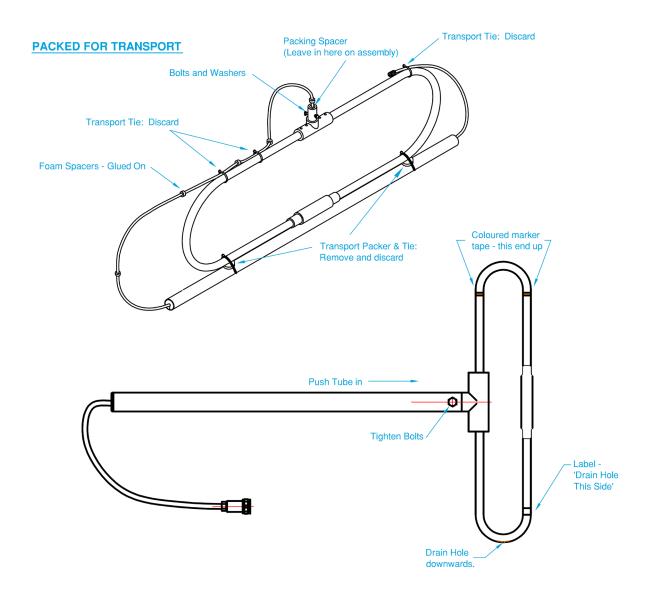




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#### **TO ASSEMBLE ANTENNA:**

Remove and discard packing as shown above.

Hold Connector and carefully pull Cable through Mounting Tube, fitting each Spacer on Cable into Tube.

Push Mounting Tube fully home into in Dipole Frame Tee-piece and bolt home tight

For vertical mountimg, make sure Drain Hole is downwards..

