

Section 1b

AIR BAND ANTENNAS

Updated 14 February 2011

B55SS Air Band Monocone

Frequency
118 – 136 MHz

Bandwidth
FULL BAND



Suitable for mounting to lightweight towers, the B55SS monocone covers the entire Air Band 118 to 136 MHz making this the ideal base station antenna for Airports where a variety of channels are used.

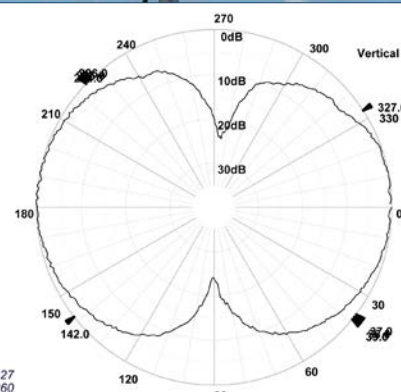
With an omnidirectional radiation pattern and integral ground plane, this monocone produces a low angle of radiation making it comparable with a centre fed dipole.

The radome is a high quality UV resistant ABS with stainless steel radials and stainless steel mount tube. This high quality construction ensures reliable performance over a long service life.

The 1 metre RG213 cable tail is terminated with an N-Female connector rated for up to 500 watts input power.

Mounting clamps, coaxial feeder cable, connectors and other accessories are available to complete the installation.

SPECIFICATIONS	B55SS
Construction	UV resistant ABS radome, stainless steel radials and stainless steel mount tube
Frequency	118 to 136 MHz Air Band
Bandwidth	Full Band
Return Loss, VSWR	Better than -15 dB, less than 1.5:1
Tuning	Factory
Gain	0 dBd
Maximum Power	500 Watts
Impedance (Nom.)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
E Plane	65° vertical beamwidth
H Plane	360° omnidirectional ± 0.5 dBd
Cable Tail	1 metre of RG213
Connector	N-Female fitted to the cable
Height	1.55 metres
Base of mount tube to radial exit point	1 metre
Weight	4.6 kg
Projected Area	0.143 m ²
Wind Load at 160 kph	12.7 kg
Mount Tube Diameter	38 mm
Mounting Clamps recommended	2 x EB1SS



Frequency 127
H beamwidth 360
V beamwidth 65
Front to Back 0
Gain 0
Tilt 0
Polarisation OMNIDIRECTIONAL
Comment UNITY GAIN BROADBAND MONOCONE

EB1SS clamps have all stainless steel components and are recommended to mount the B55SS Monocone antenna parallel to a round mast between 20 mm and 50 mm in diameter.

Two clamps will be required.

