Aerial Systems Australia

Product Brief

Bushcomm BBA-100CS HF Antenna

HF BROADBAND MULTIWIRE DIPOLE
*****COMPACT*****

DR DIGITAL HF VOICE & DATA RADIO COMPATIBLE

Bushcomm's flagship model and all-round best performer is the BBA series of high power base station antenna systems.

Engineered to the exacting standards required for professional applications, the comparatively affordable BBA series antennas are used by private, commercial, government, and tactical HF system operators worldwide.

The Bushcomm BBA is also adaptable enough to suit various physical installation requirements. Between two purpose built towers at a professional site, between trees or other structures, and even in an inverted "V" configuration to suit NVIS applications *.

Light yet sturdy construction ensures low total mass wind loading. The highest quality materials are used in construction, such as stainless steel radiating elements and UV resistant fibreglass rods. This produces an antenna that will survive even the harshest of outdoor environmental rigours for many years.

There are many variants in the BBA family with sizes and power ratings to suit a wide range of applications.

FULL BBA SERIES FAMILY:

* BBA100V - 125w, 2.0~30Mhz, 27M
* BBA100C - 250w, 2.0~30Mhz, 27M
* BBA100CS - 250w, 3.0~30Mhz, 20M
* BBA100CE - 250w, 1.6~30Mhz, 54M
* BBA-600VS - 600w, 3.0~30Mhz, 20M
* BBA600V - 600w, 2.0~30Mhz, 27M
* BBA600VE - 600w, 1.6~30Mhz, 54M
* BBA1kD - 2kW, 2.0~30Mhz, 27M
* BBA1kDE - 2.5kW, 1.6~30Mhz, 54M
* BBA1kCF - 2.5kW, 1.5~30Mhz, 74M

SPECIAL FEATURES

- 3.0-30mhz
- NO TUNER REQUIRED
- S/S Wire and Fittings
- UV Resistant rod & balun/load boxes
- Easy Installation (instruction provided)
- Variation of length and power available
- Configurable in Horizontal or Inverted V
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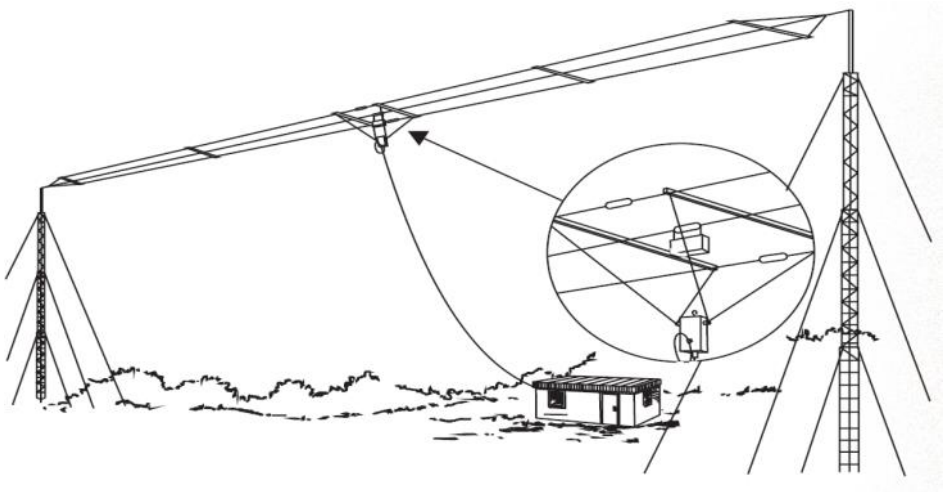
- Suitable for continuous data

CE RoHS



Bushcomm
HF Antennas

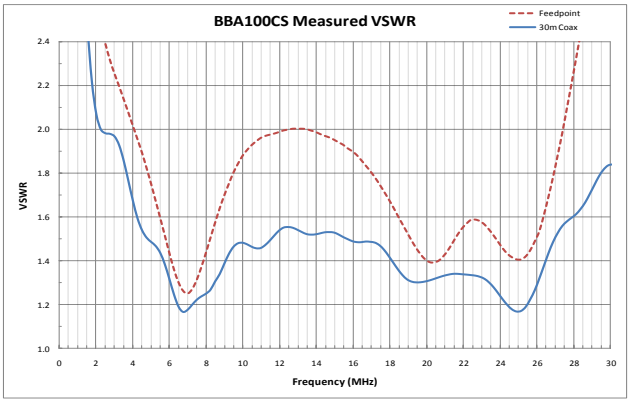
Product Brief

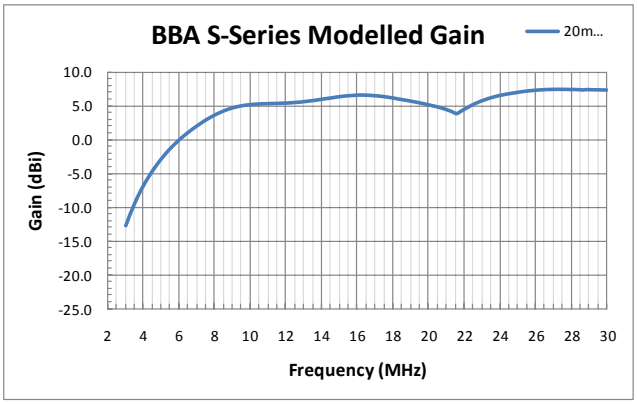
Specification Summary

SPECIFICATION	
ELECTRICAL	
Frequency Range	3.0 - 30MHz
Nominal Input Impedance	50 Ohm
VSWR (typical)	Better than 2:1 (30m RG58)
Gain	5dBi (typical) -6dBi at 4.9 MHz (typical)
Power Rating:	130W continuous. 250W PEP (voice)
Input connector:	UHF Type socket (S0239)
MECHANICAL	
Operating Temperature	-30°C to +50°C
Storage Temperature	-40°C to +85°C
Ice Loading	0.6cm , with reduced wind loading
Shipping Weight:	Approx 4kg
Antenna Length	20 metre
Radiating elements	2mm Stainless Steel (G304)
Wind Rating	210 km/hr**
Mast Spacing	21m horizontal; tower spacing, 15m footprint Inverted V ***

Above: Bushcomm Balun showing coaxial strain relief feature****

* Recommended Mast Height - 10m minimum
** In accordance with AS1170.2 – 1989 SAA Loading Code – Wind Loads
*** Approximate spacing. Will vary location to location and depending on preference
**** Coaxial cable not included, can be purchased separately





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