



BBA-1kD S/S HF ANTENNA

HIGH POWER BROADBAND DIPOLE - 2kW

Commercial Premium Series

The BBA-1kD S/S is part of our new Premium Series Commercial HF Antenna Range.

Features include all stainless steel fittings/ crimp components, improved weatherproofing & dynamically matched balun/load pairing for an even flatter HF band VSWR Curve.

Engineered to the exacting standards required for high end professional applications, the BBA Commercial 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.

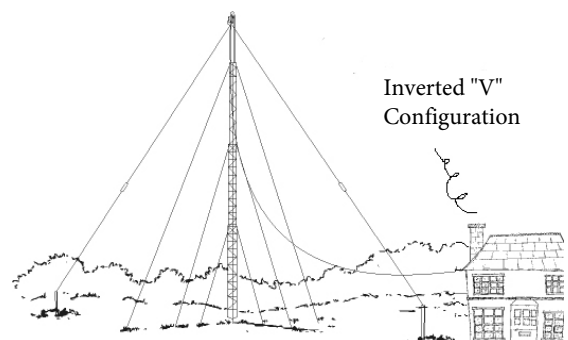
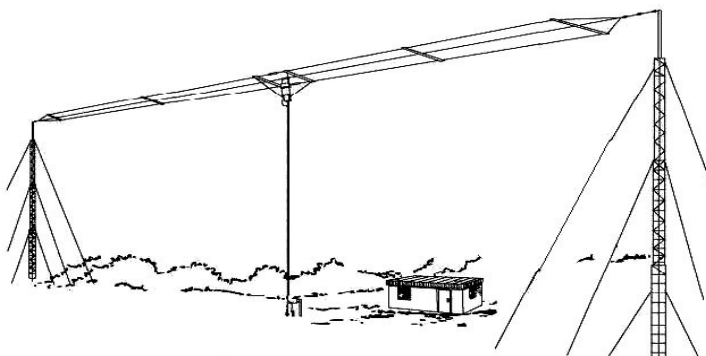
DR DIGITAL HF VOICE & DATA RADIO COMPATIBLE

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

- 2.0 - 30 MHz
- No tuner required
- S/S wire, Crimps and fittings
- UV resistant rod & balun/load boxes
- Easy installation (instruction provided)
- Variation of length and power available
- Configurable in horizontal or inverted V
- Suitable for Digital Voice & data Modes



Inverted "V" Configuration



Specification Summary

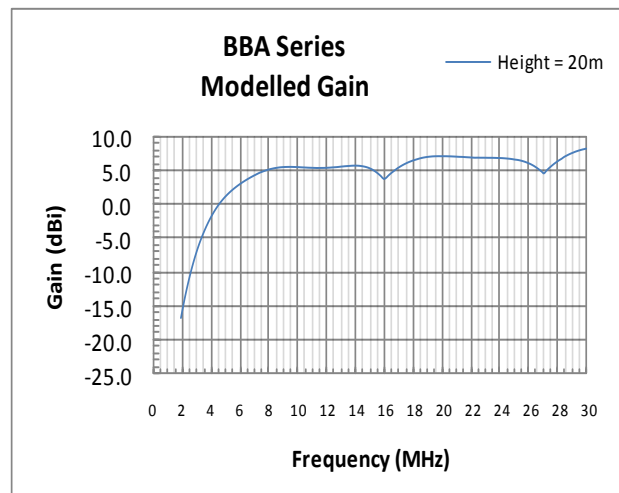
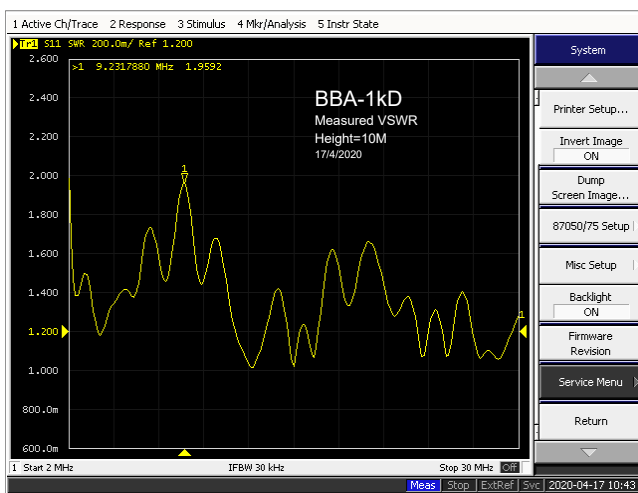
SPECIFICATION	
ELECTRICAL	
Frequency Range	2.0 - 30MHz
Nominal Input Impedance	50 Ohm
VSWR (typical)	Better than 2:1 ****
Gain	5dBi (typical) -4dBi at 3.6MHz (height dependent)
Power Rating:	1kW Continuous/Data, 2kW PEP
Input connector:	N Type Female / Optional SO239
MECHANICAL	
Operating Temperature	-30°C to +50°C
Storage Temperature	-40°C to +85°C
Ice Loading	0.6cm , with reduced wind loading
Shipping Weight:	Approx 9kg
Antenna Length	27 metre
Radiating elements	2mm Stainless Steel (G304)
Wind Rating	210 km/hr*
Mast Spacing	29m horizontal tower spacing**, 20m footprint Inverted V



Above: Bushcomm Balun showing included pigtail strain relief feature***

* 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

****Assumes Antenna height is over 10M with 30 Metres of RG58C/U inline - Test antenna erected in large open area. Typical figures shown. VSWR measurements are dependant on erection height, soil conductivity, coaxial cable type, interaction with nearby structures & moisture levels



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