



SPECIALISTS FOR HIGH FREQUENCY

VBBA2-30-18

Broadband HF

Antenna

THE VALCOM MODEL VBBA2-30-18 IS AN 18 FOOT 6 INCH BROADBAND HF TACTICAL WHIP ANTENNA. THE VBBA2-30-18 OPERATES IN THE 5 MHz TO 30 MHz RANGE WITH A MAXIMUM VSWR OF 2.25:1. THE VBBA2-30-18 WAS DESIGNED TO MATCH THE ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS OF VALCOM'S HIGHLY SUCCESSFUL ANTENNA MODEL VBBA 2-30.

THE VBBA2-30-18 IS DESIGNED TO MATCH THE ANTENNA'S FULL OPERATING FREQUENCY BAND TO A 50 OHM LINE WITHOUT THE NEED FOR EXTERNAL TUNING DEVICES OR BY HAVING A PURELY RESISTIVE ELEMENT IN OR AT THE BASE OF THE ANTENNA. THIS TRANSLATES TO A HIGHER GAIN AND LOWER VSWR ACROSS THE BAND.

THE VBBA2-30-18 IS A SELF-SUPPORTING WHIP ANTENNA, COMPRISED OF A SINGLE-PIECE ALUMINUM RADIATING ELEMENT AND AN INTEGRAL FIBREGLASS MOUNTING BASE AND INSULATOR. THE MOUNTING BASE UTILIZES THE SAME BASE MOUNTING PATTERN AS CURRENTLY USED BY THE AS-3773B/U TUNABLE HF SHIPBOARD ANTENNA SYSTEM.

FEATURES:

- **MINIMUM MAINTENANCE**
- **HIGH RELIABILITY**
- **SHIPBOARD APPLICATIONS**
- **BROADBAND**
- **WEATHERPROOF**



VBBA2-30-18

QUICK REFERENCE DATA

ELECTRICAL CHARACTERISTICS

FREQUENCY RANGE	5 MHz - 30 MHz
POLARIZATION	VERTICAL
POWER RATING	2 kW AVERAGE, 6 kW PEAK
AZIMUTH COVERAGE	OMNIDIRECTIONAL ± 3 dB
VSWR:	LESS THAN 2.25:1
GAIN: 5 MHz - 7 MHz	GREATER THAN -15 dBi
8 MHz - 30 MHz	GREATER THAN -5 dBi
INPUT CONNECTION	7/8-EIA FLANGE WITH N-TYPE ADAPTOR

MECHANICAL CHARACTERISTICS

PHYSICAL HEIGHT	18 FT 1 IN (5.51 M)
ANTENNA WEIGHT	200 LBS (90.1 KG)
RADIATING ELEMENT	ALUMINUM
INTEGRAL BASE/INSULATOR	EPOXY FIBREGLASS
FINISH	SILICONE ALKYD ENAMEL PER TT-E-490 COLOUR GREY 26270 PER FED-STD-595

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE	-50°C TO 65°C (-60°F TO 150°F)
RELATIVE HUMIDITY	0-100%
VIBRATION	MIL-STD-167-1 TYPE 1
WIND VELOCITY	140 MPH (224 KPH)
ICE LOADING	4.5 LBS/SQ FT (22 KG/SQ M)
SHOCK	MIL-S-901 GRADE A

NOTE:

- DO NOT USE LEAD BASE PAINT TO TOUCH-UP OR REPAINT ANTENNA

