BARRETT

HF Radio Communications

2019 Automatic tuning mobile HF antenna

The Barrett 2019 is an automatic tuning mobile antenna, designed to interface with Barrett 2000 series transceivers.

Providing a frequency coverage of 2 to 30 MHz, the Barrett 2019 features rapid tuning (typically <1.5 S) and low power consumption. High radiation efficiency and accurate tuning are assured by maximising antenna current (not minimising the VSWR) on every tune. The Barrett 2019 antenna incorporates a wideband amplifier that is activated in receive mode to enable channel scanning. Due to its rugged RF design, the Barrett 2019 antenna can also be used with high duty cycle applications such as the Barrett 923 or 2020 fax and data system and is compatible with ALE operation.

An optional GPS receiver can be fitted within the 2019 antenna casing and interfaces directly through the RF control cable to current production 2050 transceivers.

The active tuning elements of the antenna are housed in black waterproof, highly impact resistant technical plastic moulding. The housing incorporates a heavy duty anti-vibration mount at its base. Even with its rugged construction, the Barrett 2019 weighs only 3.6 kg.

The Barrett 2019 is supplied standard with a two piece fibreglass MIL-STD whip and a tapered spring. An optional NVIS extension is available in the form of two extra whip sections. The main antenna body has a MIL-STD control cable connector and a UHF RF connector. The 2019 is supplied with a 6 metre composite control and RF cable and connectors to connect it with the transceiver. A 10 metre control RF cable is available as an accessory.

www.barrettcommunications.com.au

BCB2019/2

DEFENCE RECOGNISED SUPPLIER
Department of Defence

MADE IN AUSTRALIA

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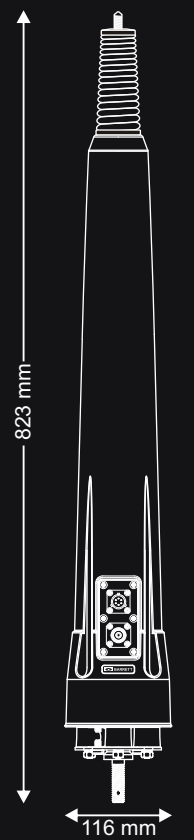
Specifications

Standards	Complies with MIL Spec. 810 F for drop, dust, temperature, shock and vibration
Frequency range	2 MHz to 30 MHz (continuous)
Power handling capability	150 W PEP
VSWR	Better than 2:1 when tuned
Tuning time	Less than 1.5 seconds (typical)
Operating temperature	-30°C to +60°C
Humidity	95% relative, non-condensing
Environmental	IP68 immersion 1 m for 1 hr
Supply voltage	12.6 V DC (derived from transceiver)
Antenna impedance	50 ohms unbalanced
Mounting	M16 stud with provision for padlock
Input current	Average 80 mA @ +12.6 V input
Shock	MIL-STD-810D method 516.3 procedure VI
Vibration	MIL-STD-810D method 514.3



Main antenna body weight including heavy duty spring
3.2 kg

Standard 2 piece whip kit
0.387 kg

NVIS 2 piece extension whip kit
0.474 kg

Total antenna lengths with standard and NVIS whips

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ISO 9001 BUREAU VERITAS Certification No 149438

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