

Section 4a

**MOBILE ANTENNAS**

Updated 16 February 2011

**BFB1**  
**Ground Independent VHF Low Band**

**Frequency**  
**70 – 85 MHz**

**Bandwidth**  
**3% FIELD TRIM**



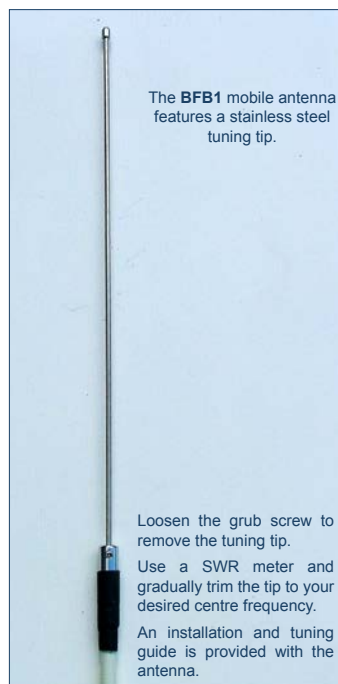
For the VHF range 70 to 85 MHz, the BFB1 ground independent mobile antenna features a stainless steel tuning tip which can be trimmed to any 3% bandwidth you desire using an SWR meter. Standing 1.83 metres tall, the antenna is primarily designed for installation on vehicles operating in off-road and heavy duty situations.

This model offers 2.1 dBi gain and is ideally suited for the emergency services, construction and mining industries.

Typical mounting positions include a vehicle bull bar or guard using the appropriate bracket. When mounting to a vehicle, we recommend installing the antenna onto either the 1269 stainless steel beehive spring or 1270 heavy duty steel barrel spring to dampen vibrations while travelling.

BFB1 can also be installed in a fixed location and used as a Base Station antenna.

The radiating element is enclosed inside a 10 mm fibreglass rod. The UHF Female connector located in the side of the antenna mounting base allows easy removal of the feeder cable.



SPECIFICATIONS	BFB1
<b>Construction</b>	Grey PVC mount ferrule, 10 mm diam white fibreglass radome, stainless steel tuning tip
<b>Frequency Range</b>	<b>70 to 85 MHz</b>
<b>Bandwidth</b>	<b>Any 3%</b>
<b>Tuning</b>	Trim the tuning tip in the field using an SWR meter
<b>VSWR</b>	Less than 1.5:1
<b>Gain</b>	<b>2.1 dBi</b>
<b>Maximum Power</b>	100 Watts
<b>Impedance</b>	50 Ohms
<b>Polarisation</b>	Vertical
<b>H-Plane</b>	360° Omnidirectional
<b>Cable</b>	None <i>(available separate)</i>
<b>Connector</b>	UHF Female located in the side of the base
<b>Height</b>	1.83 metres
<b>Weight</b>	500 grams
<b>Mounting</b>	Secure into any bracket with 12.7 mm (½") minimum diameter hole using the nut and washer on the threaded base
<b>Recommended Mounting Position</b>	Vehicle bull bar or vehicle guard
<b>Optional Vehicle Mounting Springs</b>	<b>1269</b> stainless steel beehive spring, or <b>1270</b> heavy duty steel barrel spring



**7900**

UHF Male solder connector to suit RG58 cable available separately

ZCG Scalar can supply a vehicle mounting bracket, spring, coaxial feeder cable and connectors, or an assembled cable set – **everything you need** to complete the antenna installation.



**1269**



**1270**

When mounting BFB1 to a vehicle, either of these springs are recommended to dampen vibrations while travelling. 105 mm tall x 45 mm diameter, ½"-12 BSW bolt and spring washer included.