

# BROADBAND PROPAGATION

*Antenna Design & Supply*

1-3 Adelaide Rd. Echunga  
PO Box 529 Echunga  
South Australia. 5153

Phone: (08) 8388 8132  
Fax: (08) 8388 8536  
Intl.Phone: (618) 8388 8132  
Intl.Fax: (618) 8388 8536

ABN: 84 232 273 647

E-mail: [sales@broadbandpropagation.com](mailto:sales@broadbandpropagation.com)

Web: [www.broadbandpropagation.com](http://www.broadbandpropagation.com)

## BPC-30-90 BICONICAL DIPOLE, BROADBAND BASE ANTENNA

Designed for ground, or ground to air, omnidirectional communications, the BPC-30-90 is a broadband, 16 element (8 fan and 8 skirt elements) antenna, covering the VHF band 30-90 MHz. It is designed as a semi portable base station antenna with  $\frac{1}{4}$  turn attachment of the elements to the hub and rapid mounting to mast or pole.

The hub is constructed of Acetal and anodised aluminium and the elements are UV stabilised fibreglass rods. A stainless steel stub mast is provided which attaches to the antenna. The stub mast is then clamped via supplied mounting clamps to any mast, pole or other structure with a diameter between 20-75 mm

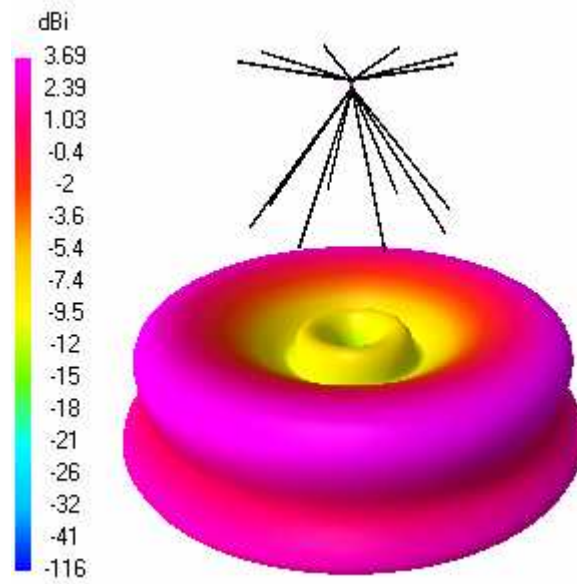


### Specifications

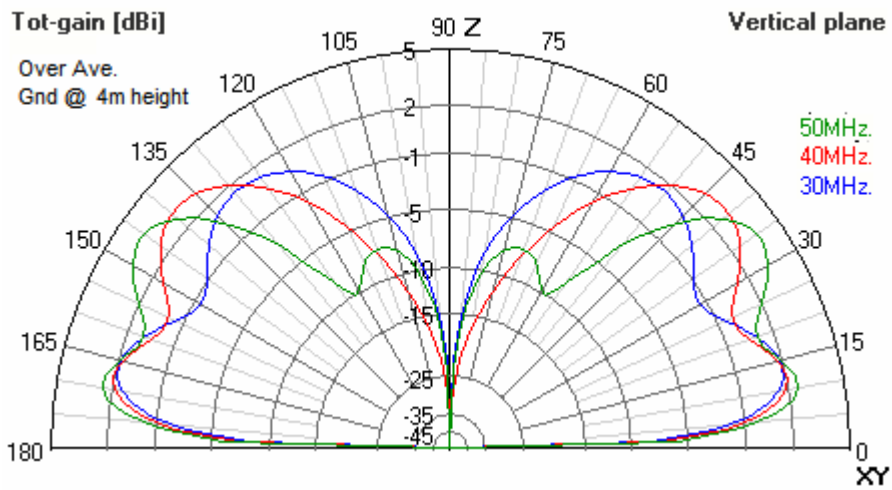
|                      |   |
|----------------------|---|
| Frequency Range:     | 30-90 MHz   |
| Gain:                | 3-4dBi  |
| Polarisation:        | Vertical  |
| VSWR:                | Equal to or better than 2.5 :1                        |
| Power Rating         | 500 watts   |
| Input Connection:    | N type female   |
| Mounting:            | Mounts to 20-75mm shaft<br>via 600 x 38 mm stub shaft |
| Finish:              | Olive drab  |
| Assembled Height:    | 3.46 metres   |
| Assembled Width:     | 3.32 metres   |
| Shipping Weight:     | 14 kg   |
| Shipping Dimensions: | 162 x 30 x 13 cm                                      |

Supplied with stub shaft and mounting Hardware.

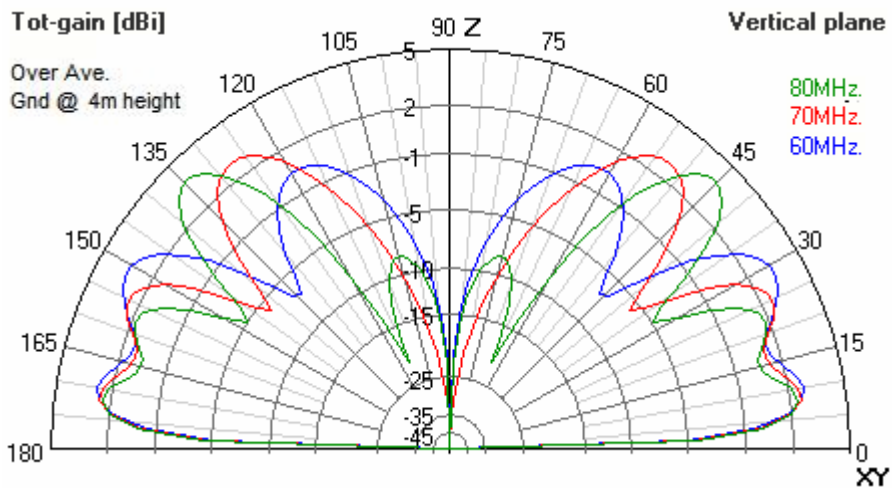
VHF Biconical Dipole, Height 4 m over "average" ground



3D Plot @ 50 MHz



Vertical Plot @ 30-50 MHz



Vertical Plot @ 60-80 MHz

