

# TETRA UHF

## UHF Elevated Antenna

04/04/2016 v2



### BSU

2dBi Omnidirectional

Mast Mount

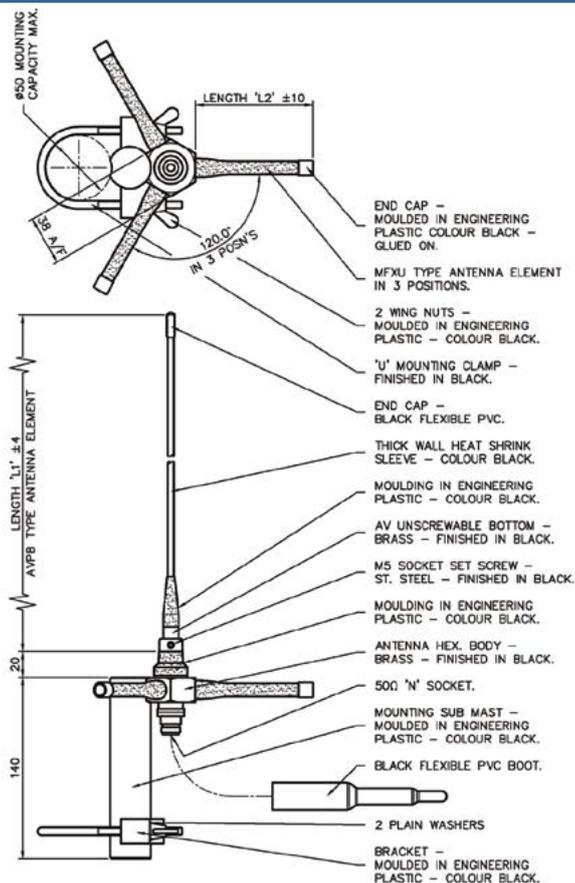
Temporary or Permanent

Quick Assembly

The BSU type antenna is a 2dBi gain discreet ruggedized product and is suitable for temporary field use or permanent installation. The antenna has a black plated brass centre hub, which is mounted on a nylon stub mast and is supplied with mounting hardware. The hub has a N socket terminal which allows use of different types and diameter coaxial cable, depending on cable length required. The plastic coated  $\frac{1}{4}$  wave radiating element is fitted to the centre of the hub and three helical elements provide the ground plane.

Typical applications for this antenna are: for use on mobile pump up mast, fixed radio terminal (FRT) and mobile/fixer repeater installations.

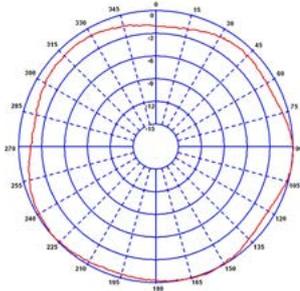
### Technical Drawing



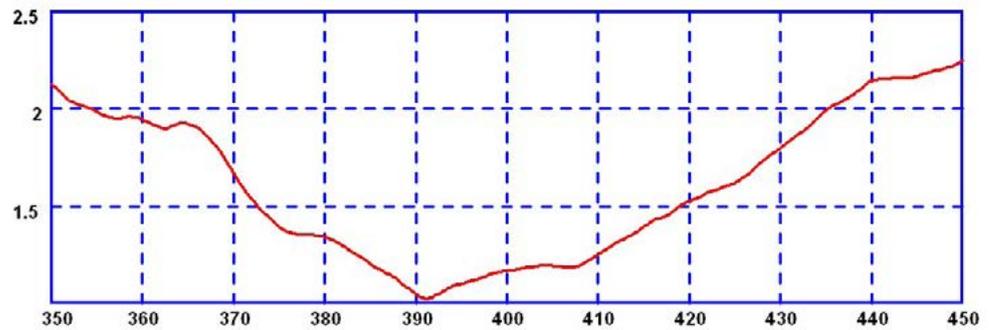
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## UHF Elevated Antenna

Typical H-Plane (390MHz)



Typical VSWR\*



\* VSWR measured with 5m (17') of CS23 cable.

Part No.	BSU-S1	BSU-S2	BSU-TET	BSU-S4
<b>Electrical Data</b>				
Frequency Range (MHz)	380-400	410-430	380-430	450-470
Operational Band	S1	S2	TET	S4
Peak Gain: Isotropic	2dBi	2dBi	2dBi	2dBi
Compared to ¼ wave	0dB	0dB	0dB	0dB
Typical VSWR	<1.5:1	≤ 1.5:1	≤ 1.5:1	≤ 1.5:1
Polarisation	Vertical	Vertical	Vertical	Vertical
Pattern	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional
Impedance	50Ω	50Ω	50Ω	50Ω
Max Input Power (W)	100	100	100	100
<b>Mechanical Data</b>				
Dimensions (mm)	Total Length	358 (1.2')	344 (1.1')	351 (1.1')
	'L1' length	198 (7.8")	184 (7.2")	191 (7.5")
	'L2' length	68 (2.7")	64 (2.5")	65 (2.6")
Operating Temp (°C)	-30° / +80°C (-22° / +176°F)			
Colour	Black	Black	Black	Black
Materials	TPE, Nylon,Black Chrome Plated Brass.			
<b>Termination Data</b>				
Termination	N socket	N socket	N socket	N socket



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Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

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