

TETRA UHF

UHF Elevated Antenna

04/04/2016 v2



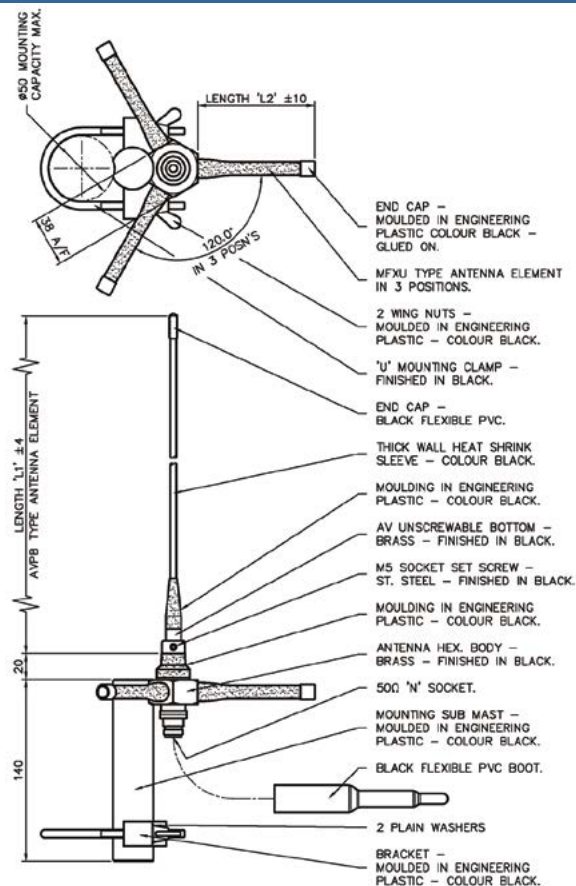
BSU

- 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.

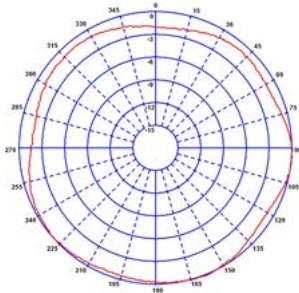
Technical Drawing



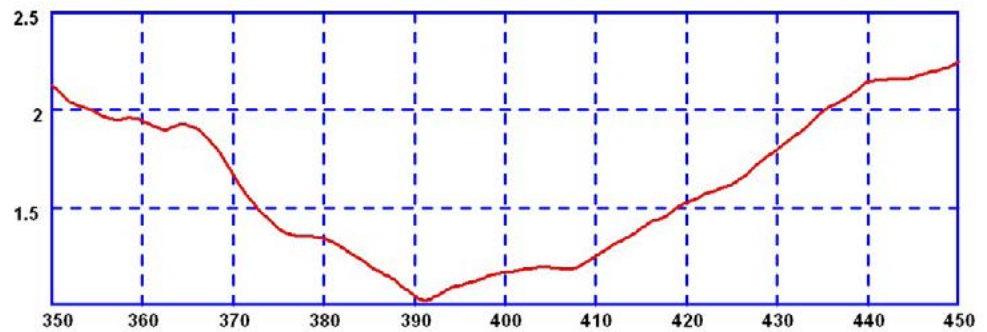
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Typical H-Plane (390MHz)



Typical VSWR*



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

Part No.	BSU-S1	BSU-S2	BSU-TET	BSU-S4	
Electrical Data					
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 1/4 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	
Mechanical Data					
Dimensions (mm)	Total Length	358 (1.2')	344 (1.1')	351 (1.1')	327 (1')
	'L1' length	198 (7.8")	184 (7.2")	191 (7.5")	167 (6.6")
	'L2' length	68 (2.7")	64 (2.5")	65 (2.6")	58 (2.2")
Operating Temp (°C)	-30° / +80°C (-22° / +176°F)	-30° / +80°C (-22° / +176°F)	-30° / +80°C (-22° / +176°F)	-30° / +80°C (-22° / +176°F)	
Colour	Black	Black	Black	Black	
Materials	TPE, Nylon,Black Chrome Plated Brass.	TPE, Nylon,Black Chrome Plated Brass.	TPE, Nylon,Black Chrome Plated Brass.	TPE, Nylon,Black Chrome Plated Brass.	
Termination Data					
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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