21-41

CHELTON

Tri-Band ELT Antenna

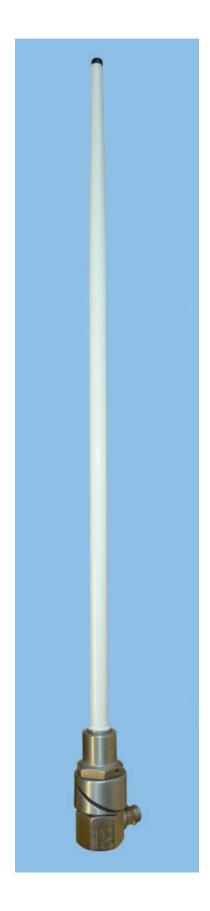
Key features:

- Lorem 1
- Lorem 2

The 21-41 Tri-Band ELT (Emergency Locator Transmitter) Antenna is a multiple frequency whip antenna for use in airborne applications.

It is fitted with deoupling circuits which prevent corruption of the radiation pattern at the upper frequencies and provides some loading to enhance performance at the lower frequencies.

The antenna consists of a tapered glass fibre sleeve supporting an aluminium alloy radiating element. The element assembly is fitted to a metal body carrying the coaxial connector.



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ELECTRICAL

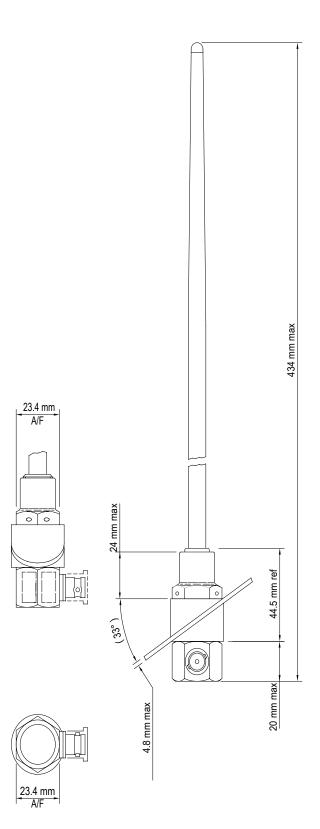
Frequency Range	121.5 MHz ± 1.8 MHz 243 MHz ± 2.5 MHz 406 MHz ± 0.1 MHz			
Gain	\ge 2 dBi at cardinal frequencies			
Polarisation	Predominantly vertical (when mounted vertically)			
Radiation	Essentially omnidirectional in azimuth			
Pattern				
	50 ohm (nominal)			
Pattern				
Pattern Impedance	50 ohm (nominal)			

MECHANICAL

Overall Length	434 mm (maximum)
Width of Body Base	23.4 mm (maximum) A/F
Weight	0.14 kg (maximum)
Mounting	Single hole self-fixing

ENVIRONMENTAL

Temperature and Altitude	RTCA DO-160C, Section 4 RTCA DO-160D, Section 4 Operational: Time Survival: mins	
Temperature Variation	RTCA DO-160C, Section 5, Category A	
Humidity	RTCA DO-160C, Section 6, Category C	
Shock	RTCA DO-160C, Section 7 Operational: Crash Safety (Impulse): Crash Safety (Sustained):	6g, 11ms 15g, 11ms
Vibration	RTCA DO-160C, Section 8, Category Y	
Waterproofness	RTCA DO-160C, Section 10, Category R	
Fluid Susceptbility	RTCA DO-160C, Section 11, Category F	
Fungus Resistance	RTCA DO-160C, Section 13, Category F	
Salt Spray	RTCA DO-160C, Section 1	4, Category S
Magnetic Effect	RTCA DO-160C, Section 15, Class Z	



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