



**21-50-42**  
**TRI - BAND ELT**  
**ANTENNA**  
**121.5, 243 and 406 MHz**

## FEATURES

- **Covers 121.5, 243 and 406 MHz without tuning**
- **Very lightweight**
- **For helicopter and fixed wing aircraft up to 350 Knots**
- **Glass/Epoxy – Aluminum construction**
- **Small footprint**
- **Meets AS3191 lightning requirements**
- **Designed to DO 160 Environmental conditions**



The 21-50-42 is an externally mounted airborne VHF/UHF antenna operating at the three primary distress frequencies.

A fiberglass rod with an internal element is fitted into an aluminum base which contains foamed-in place matching circuits capable of handling up to 25 Watts power.

The method of construction provides protection from world-wide military environmental conditions including vibration, shock and temperature variations.

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# SPECIFICATIONS

## Cooper Antennas Model 21-50-42

### Tri-band ELT Antenna

#### ELECTRICAL

Frequency Range	121.5, 243 and 406 MHz
Gain (typical)	+ 2dBi (UHF) - 5dBi (VHF)
VSWR	2.0:1 max @ 121.5 and 243 MHz 1.5:1 max @ 406 MHz
Impedance (nominal)	50 Ohms
Power	25 Watts
Polarization	Vertical
Radiation	Nominally omni directional in azimuth plane
Antenna RF Connector	BNC Female

#### MECHANICAL

Construction	Fiberglass whip/ Aluminum base
Height	15.5 inches (394mm)
Weight	0.45 lb (0.20kg)
Base Plate Shape	Tear drop
Fixing Holes	4 x Ø 0.170 inches (4.3mm) ±0.005 inches (0.127mm) holes, counter sunk at 100° Ø 0.325 inches (8.1mm).

#### FINISH

Antenna	Urethane Gloss White
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Other finish options are available. Please specify finish required when ordering.

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change.  
Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.