



**21-50-339**  
**VHF/UHF 3 Frequency ELT**  
**Airborne Antenna**  
**121.5/156.8/243 MHz**

## **FEATURES**

- **Covers Maritime and aviation ELT VHF & UHF frequencies**
- **Lightweight and Ultra Low Profile**
- **Only 8.5” stand off height**
- **For helicopter and fixed wing aircraft up to 250 Knots**
- **Glass/Epoxy –Aluminum construction**
- **Small footprint**
- **Designed to DO160 Environmental Conditions**
- **25 watts power handling**



The 21-50-339 is an externally mounted airborne VHF/UHF/ELT (Emergency Locator Transmitter) antenna operating over the maritime and aviation distress frequencies.

The radiating element comprises a hard drawn alloy tube inserted into a moulded base which contains foamed-in place matching circuits capable of handling up to 25 Watts power.

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

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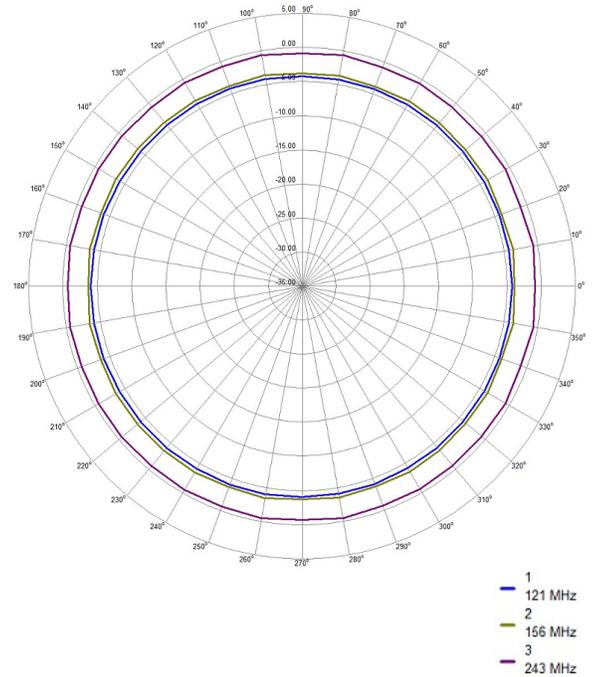
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# SPECIFICATIONS

## Cooper Antennas Model 21-50-339 VHF/UHF 3 Frequency ELT Airborne Antenna

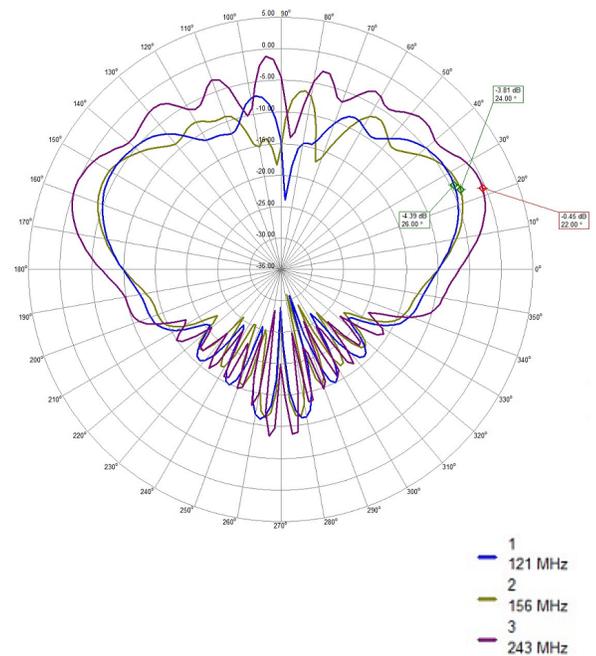
### ELECTRICAL

|                     |   |
|---------------------|---|
| Frequency Range     | 121.5 ±1 MHz, 156.8 ±1 MHz & 243 ± 1 MHz              |
| Gain (typical)      | -5 dBi (VHF)<br>0 dBi (UHF)                           |
| VSWR                | ≤ 2.6:1   |
| Impedance (nominal) | 50 Ohms   |
| Power               | 25 Watts  |
| Polarization        | Essentially vertical                                  |
| Radiation           | Nominally omni directional in azimuth plane see plots |
| RF Connector        | BNC Female  |



### MECHANICAL

|                  |  |
|------------------|--|
| Construction     | Hard drawn aluminum alloy tube in glass loaded, moulded base.  |
| Height           | 8.5 inches (216mm)   |
| Weight           | 0.37lbs (168g)   |
| 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 0.320 inches (8.1mm). |



### FINISH

|         |             |
|---------|-------------|
| Antenna | Gloss White |
|---------|-------------|

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.