



**21-20-38/03**  
**VHF/FM Airborne Antenna**  
**135 to 175 MHz**

  
**ROJONE**  
PTC LTD

Australian Representatives  
**ROJONE, PTY LTD.**  
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**FEATURES**

- **Covers high VHF/FM and Sonobuoy Bands**
- **Lightweight and Low Profile**
- **Only 9.5” stand off height**
- **For helicopter and fixed wing aircraft up to 250 Knots**
- **Glass/Epoxy –Aluminum construction**
- **Small footprint**
- **Designed to MIL-STD-810 Environmental Conditions**



The 21-20-38/03 is an externally mounted airborne VHF/FM antenna operating over the VHF/FM and Sonobuoy bands of 135-175 MHz.

A fiberglass rod with an internal bent stainless steel element is fitted into an aluminum base which contains foamed-in place matching circuits capable of handling up to 50 Watts power.

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

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# SPECIFICATIONS

## Cooper Antennas Model 21-20-38/03

### VHF/FM Airborne Antenna

#### ELECTRICAL

Frequency Range	135 - 175 MHz
Gain (typical)	0 dBi
VSWR	≥ 2.75:1
Impedance (nominal)	50 Ohms
Power	50 Watts
Polarization	Linear (vertical when vertically mounted)
Radiation	Nominally omni directional in azimuth plane
Antenna RF Connector	TNC Male

#### MECHANICAL

Construction	Fibreglass encased stainless steel whip Aluminum base
Height	9.5 inches (241 mm)
Weight	0.6 lbs (0.27 kg)
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 0.280 inches (7.1mm).

#### 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.