



21-20-35
VHF/FM Ultra Low Height
Airborne Antenna
SINGGARS / BOWMAN
30-88 MHz

FEATURES

- **Covers 30-88 MHz without tuning**
- **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 MIL-STD-810 Environmental Conditions**
- **50 watts power handling**



The 21-20-35 is an externally mounted airborne VHF/FM antenna operating over the SINGGARS / BOWMAN frequency band of 30-88 MHz

The radiating element comprises a hard drawn alloy tube inserted 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 military environmental conditions including vibration, shock and temperature variations.

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SPECIFICATIONS

Cooper Antennas Model 21-20-35

VHF/FM Ultra Low Height Airborne Antenna

ELECTRICAL

Frequency Range	30 - 88 MHz
Gain (typical)	-27 dBi @ 30 MHz rising to -10 dBi @ 88 MHz
VSWR	≤ 3:1
Impedance (nominal)	50 Ohms
Power	50 Watts
Polarization	Nominally vertical
Radiation	Nominally omni directional in azimuth plane
Antenna RF Connector	BNC Female

MECHANICAL

Construction	Hard drawn aluminum alloy tube in aluminum base
Height	8.5 inches (216 mm)
Weight	0.4lbs (180 g)
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	Matt Black
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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.