



21-20-62
RUGGEDIZED GROUND/AIRBORNE
VOR/ILS ANTENNA
108-118 / 328-336 MHz

FEATURES

- **Rugged Construction**
- **Excellent Gain and VOR/LOC omni-pattern**
- **Forward look GLIDESLOPE**
- **Balanced loop element maximizes horizontal polarization**
- **Suitable for airborne and vehicular use**
- **Designed to DO160 environmental conditions**



The 21-20-62 is a ruggedized VOR/Localiser/Glideslope antenna suitable for certain airborne and ground checking applications. For airborne use, the antenna can be mounted underneath an aircraft or helicopter fuselage where it can withstand ground and debris impact to a far greater extent than equivalent V-dipoles and other external antenna types. For ground use, the antenna provides a robust roof-mounted installation suitable for checking airfield VOR/ILS installations.

Electrical design uses a balanced loop giving excellent gain and circularity of azimuth pattern (forward sector only for Glideslope) whilst having greater rejection of unwanted vertical polarization.

Constructed within a tough fiberglass radome, the antenna is fully sealed and foam filled for long term reliability.

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SPECIFICATIONS
COOPER ANTENNAS MODEL 21-20-62
RUGGEDIZED GROUND/AIRBORNE VOR/ILS ANTENNA
108-118 / 328-336 MHz

ELECTRICAL

Frequency Range	108 - 118 MHz and 328 - 336 MHz
Impedance (nominal)	50 Ohms
VSWR	$\leq 5:1$ 108 - 118 MHz $\leq 3:1$ 328 - 336 MHz
Polarization	Horizontal
Radiation	Omnidirectional in azimuth (108 - 118 MHz) Forward looking in azimuth (328 - 336 MHz)
Gain	0 \pm 2dB

MECHANICAL

Height	10 inches (254mm)
Diameter of Radome	16 inches (406mm)
Construction	Sealed fiberglass radome with foamed in place elements
Operating Temperature	-54°C to +75°C
Weight	10 lbs nominal (4.55kg)

FINISH

Lusterless Grey Urethane

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.