

21-40-45-4 GSM Airborne Blade Antenna 850 to 1900 MHz

## **FEATURES**

- Covers full GSM Band
- Low profile, diamond shaped blade
- Designed to meet MIL-STD-810
- Fully environmentally sealed
- Grounded for lightning protection
- Lossless matching high RF efficiency



Omnidirectional radiation pattern

The 21-40-45-4 is a wide band UHF and C/D airborne blade antenna designed for high performance aircraft covering the GSM frequency band. It is a direct footprint replacement for AT256 UHF Blade antennas.

Electrical design is based on a 2-dimensional, shunt-grounded discone which is of high efficiency and provides nearly omnidirectional azimuthal radiation.

Mechanical design uses an advanced, glass-loaded thermoplastic radome with an integral radiating element, all foamed-in-place for structural and environmental integrity.

The blade has an aluminum alloy baseplate with a centrally mounted, N-type female coaxial connector.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

## SPECIFICATIONS Cooper Antennas Model 21-40-45-4

## **GSM** Airborne Blade Antenna

ELECTRICAL	
Frequency	850 - 1900 MHz
Gain (average)	≥2 dBi
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts CW
Polarization	Vertical
Radiation Pattern	Omni-directional in azimuth, similar To stub in elevation
Antenna RF Connector	N-type Female
MECHANICAL	
Antenna Shell Type	Glass loaded thermoplastic blade
Element Height	6 inches (152.5mm) max
Weight	0.9 lbs (0.4 Kg) max
Side Loading	≥6 psi ultimate
Base Plate Shape	Diamond shape
Fixing Holes	6 x Ø 0.203 inch (5.2mm) holes, counter bored Ø 0.43 inches (10.9mm)
FINISH	
Antenna	Lustreless Black Urethane
Other finish options are available. Please specify finish required when ordering	

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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.