

# Type 21-68

UHF Whip Antenna  
380 MHz - 470 MHz

**COBHAM**

21-68-DS Issue 1

The most important thing we build is trust

The **21-68 Whip Antenna** provides communications in the frequency range 380 MHz to 470 MHz. The antenna is configured as a whip type monopole and is intended for use in general subsonic airborne applications.

The antenna comprises a cylindrical aluminium alloy element within a protective composite sleeve that is fitted to an aluminium alloy, mounting block. The block provides the single RF connector (BNC or TNC).

The **21-68** is available in two paint finishes.

Part Number	Connector	Paint Finish	NSN
21-68P3	BNC	Gloss white epoxy	-
21-68P4	BNC	Matt black epoxy	5985-99-968-4821
21-68TP3	TNC	Gloss white epoxy	-
21-68TP4	TNC	Matt black epoxy	-



## Electrical Specification

Frequency Range	380 MHz - 470 MHz
Impedance	50 ohm (nominal)
VSWR	< 2.5:1
Radiation Pattern	Omnidirectional in azimuth
Gain	0 dBi (minimum)
Polarisation	Vertical when mounted vertically
Power Rating	25 W CW (maximum)
Connector	BNC or TNC

## Mechanical Specification

Overall Length	212 mm (maximum)
Width of Body Base	23.4 mm A/F
Weight	0.1 kg (maximum)
Mounting	Single hole self-fixing

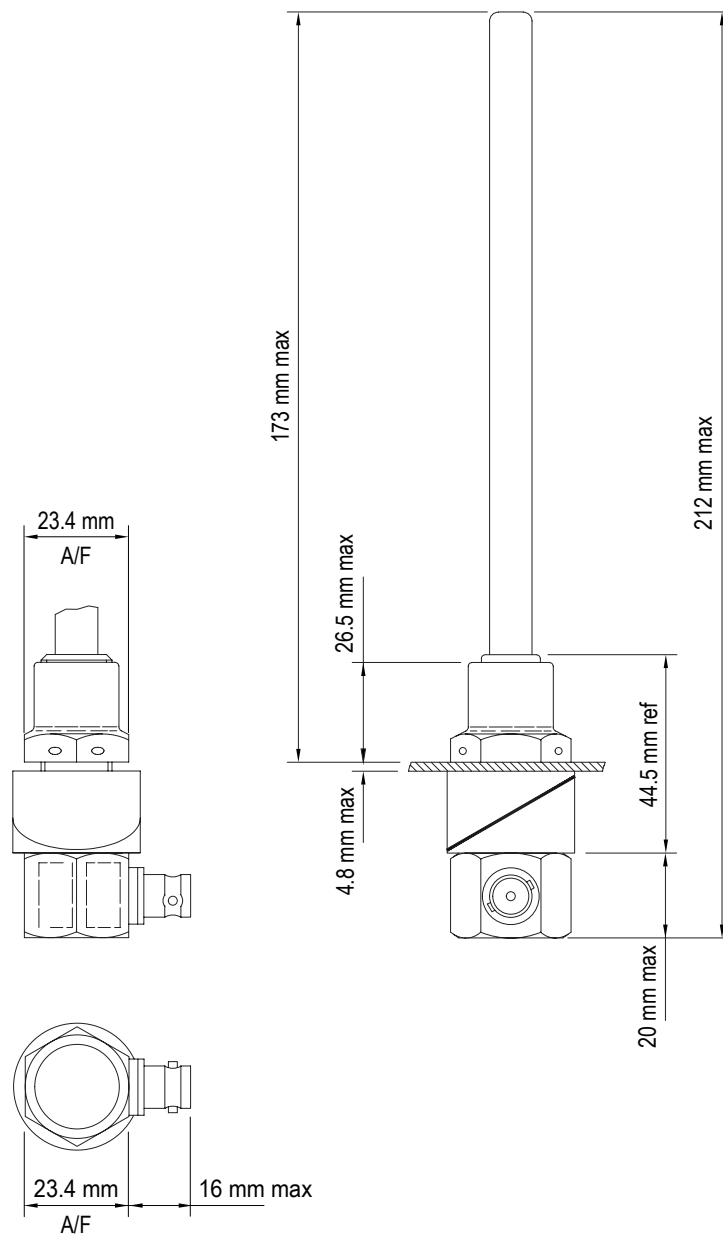
## Environmental Specification

Temperature and Altitude	RTCA DO-160C, Section 4, Category B2 Operational: -45°C to +70°C Storage: -55°C to +85°C Altitude: 7620 m
Temperature Variation	RTCA DO-160C, Section 5, Category A -45°C to +70°C @ 10°C per minute
Humidity	RTCA DO-160C, Section 6, Category C 95% RH at 55°C
Shock	RTCA DO-160C, Section 7 Operational: 6 g, 11 ms half sinewave Crash Safety (Impulse): 15 g, 11 ms half sinewave
Vibration	RTCA DO-160C, Section 8, Categories Y and L
Waterproofness	RTCA DO-160C, Section 10, Category R
Fluids Susceptibility	RTCA DO-160C, Section 11, Category F, Paragraph 11.4.1
Fungus Resistance	RTCA DO-160C, Section 13, Category X
Salt Spray	RTCA DO-160C, Section 14, Category X
Magnetic Effect	RTCA DO-160C, Section 15, Class Z

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