

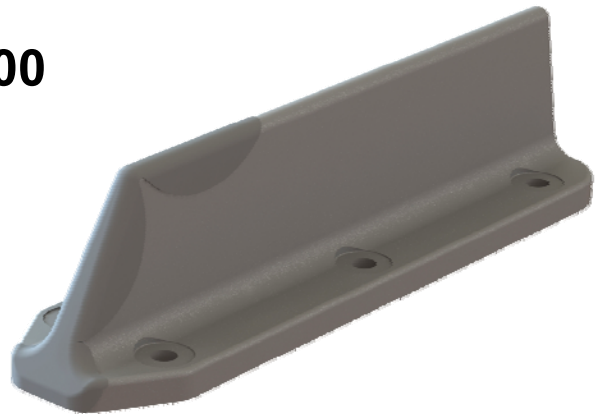


21-40-66
(166974-0100)

Airborne IFF Interrogator Antenna
1030 and 1090 MHz

FEATURES

- **Low profile “bird slicer”**
- **Can be phase and amplitude matched**
- **Replacement for 166974-0100 and DMQ105-4-1**
- **For use in 4 element arrays**
- **Suitable for supersonic aircraft such as F-16**
- **Designed to MIL-STD-810 environmental**
- **400 Watts Peak Power**



The 21-40-66 antenna is a drop on replacement for the AIFF interrogator antenna fitted to certain military fighter aircraft including some versions of F-16.

This antenna comprises a very low profile high temperature fibre glass shell, moulded in one piece, enclosing a multi element directional IFF antenna contained on a low loss printed circuit card. It is fitted with an OSP/BMA plug to connect directly to the AIFF antenna phasing unit mounted flush with the aircraft skin.

All 21-40-66 antennas can be supplied with closely controlled phase and amplitude characteristics to allow use in multiple element arrays. The antenna is fully sealed for reliability and long term prevention of moisture ingress.

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SPECIFICATIONS

Cooper Antennas Model 21-40-66

ELECTRICAL

Frequency range	1030 ± 5 & 1090 ± 5 MHz
Impedance	50 Ω nominal
VSWR	2.0:1 max
Power	400 Watts Peak
Polarization	Vertical
Gain/pattern	See graphs (typical for individual elements)
Connector	OSP/BMA Plug

MECHANICAL

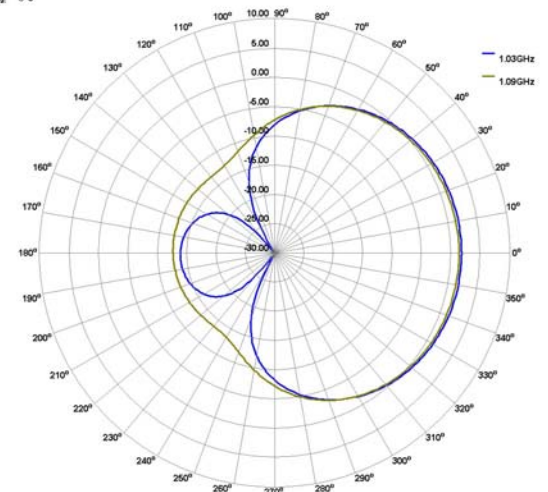
Weight	6 oz max
Mounting	6 x 0.2" diameter (nominal) counter bored holes

FINISH

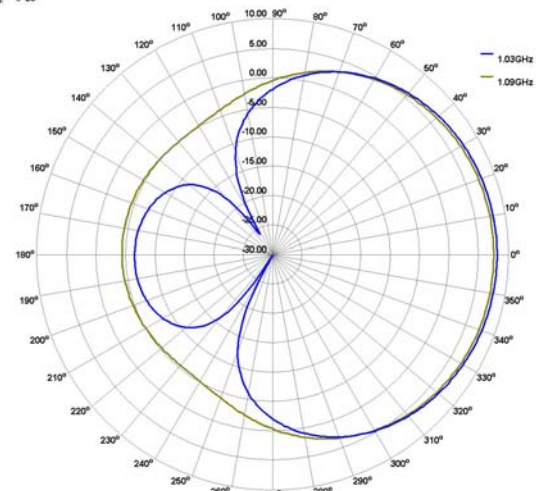
Antenna	Lusterless Grey
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Other finish options are available. Please specify finish required when ordering.

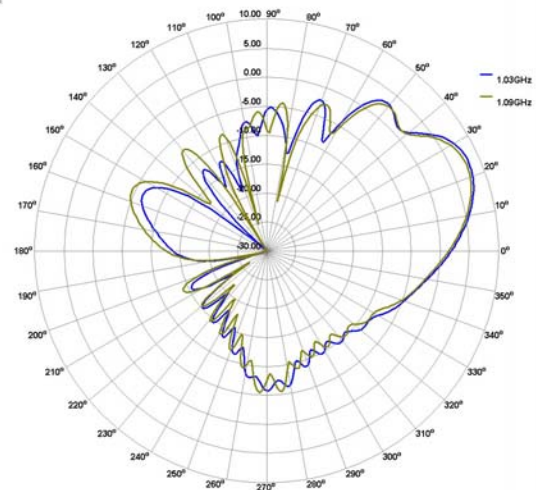
Azimuth radiation pattern, elevation=0°, on 2m circular ground plane, vertical polarisation.
Abs. EtoGain [dB] 0=0



Azimuth radiation pattern, elevation=25°, on 2m circular ground plane, vertical polarisation.
Abs. EtoGain [dB] 0=25



Elevation radiation pattern, on 2m circular ground plane, vertical polarisation.
Abs. EtoGain [dB]



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.