

# **Antenna Authority, Inc.**

*DF Antennas Our Specialty!*

[www.RFDFsystems.com](http://www.RFDFsystems.com)

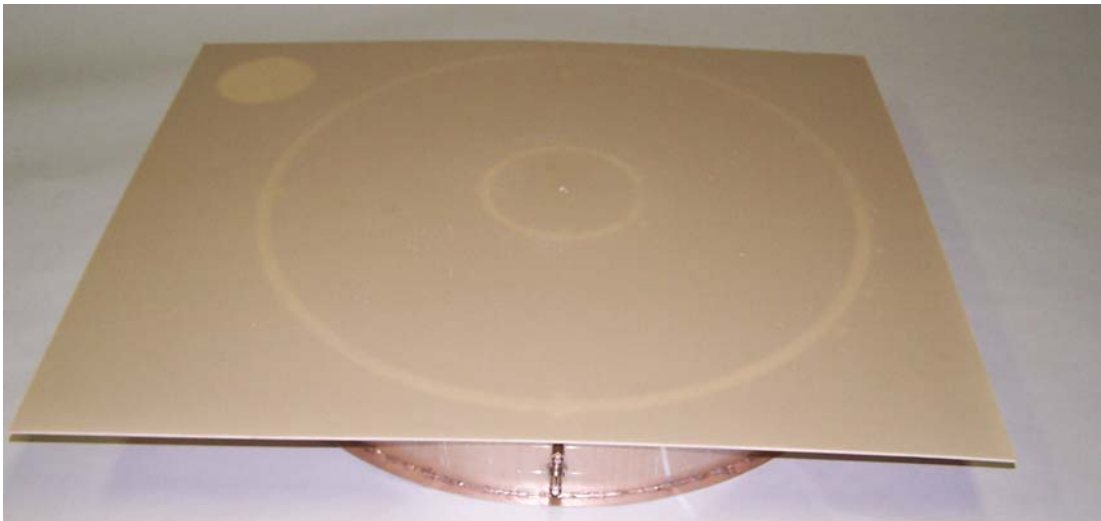
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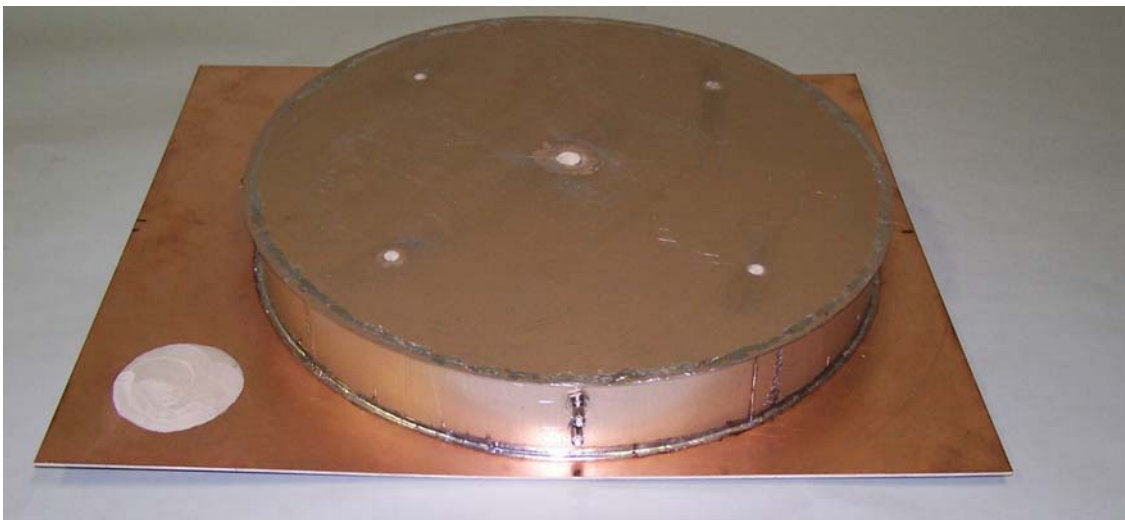


## **PRODUCT SPECIFICATION**

**Product Code --- DASA-3151 DF ANTENNA**



**Top of dual band annular slot ant Antenna for Mobile Operations**



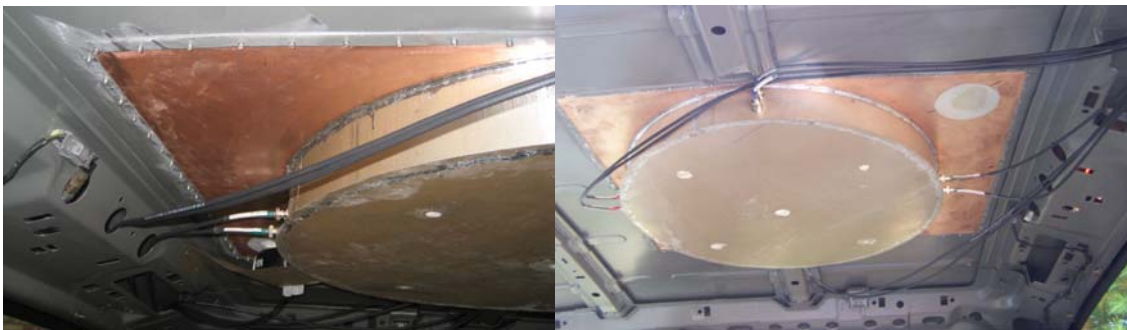
**Bottom of dual band annular slot ant Antenna for Mobile Operations**

The DASA-3151 Mobile DF Antenna is a 2 band VHF/UHF antenna consisting of annular slot elements recessed in the roof of a vehicle or on the underside of an aircraft. It includes the modulator, controller and coax cables. The antenna is designed to generate accurate and repeatable bearings on vertically polarized signals in the 20 MHz to 1000 MHz frequency range with extended coverage down to 1 MHz.

The DASA-3151 can be mounted above the headliner in a vehicle or remoted to most any 'flat' area. It is primarily designed for use in a 4 door F-150, Tahoe or similar vehicle. All power and control signals to the antenna are provided through a single control cable via the DF processor. The received signal, with bearing information encoded, is routed to the receiver through RF coaxial cable. Control signals are compatible with the AADF-3100 DF Processor from Antenna Authority, Inc.



Close up of corner detail



Close up of typical antenna install



Typical install completed

### **Electrical Specifications**

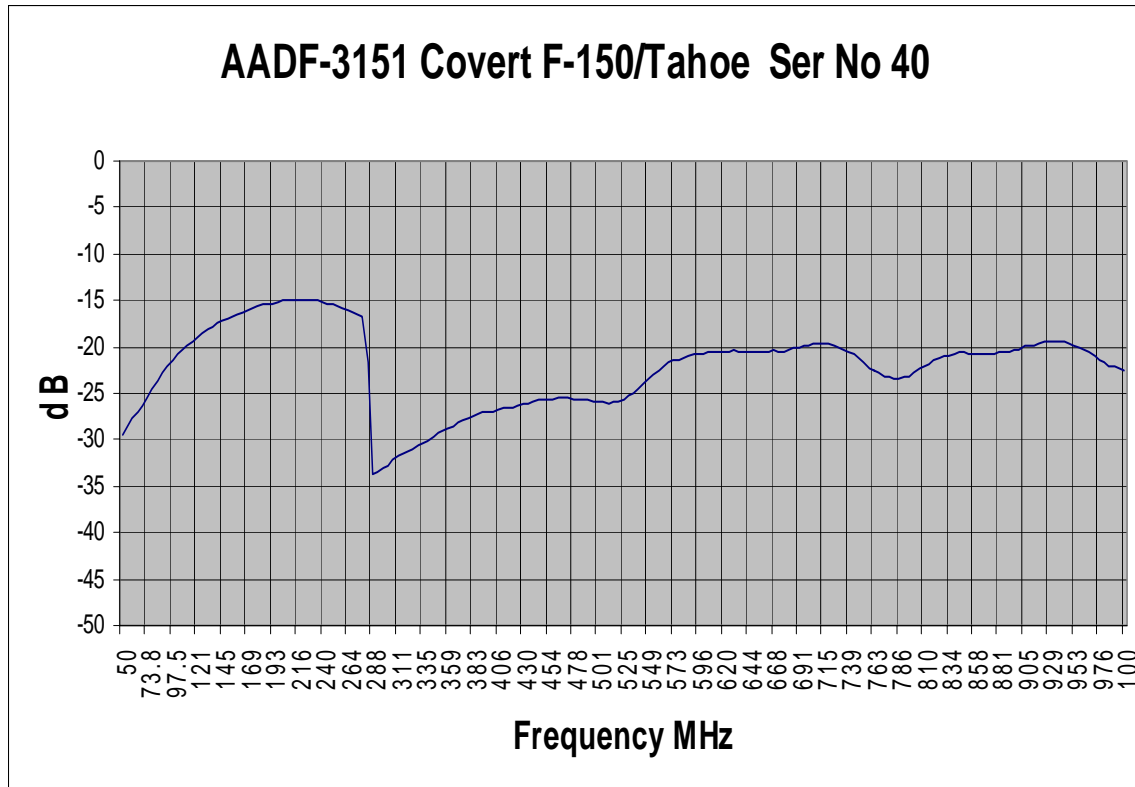
Frequency Coverage:	20 MHz to 1 GHz
Azimuths Coverage:	360° in azimuth
Calibration	Manually set depending on receiver and antenna
DF Technique:	Watson-Watt single frequency
Antenna:	Annular slot(s) w/multiple bays
Bearing Accuracy:	6° rms
Power:	Voltage: 11.5 - 14.5 VDC Current .3 amps
Polarization:	Vertical
Impedance:	50 ohms nominal
Bands	2
Connectors	BNC, DB-9

### **Mechanical Specifications**

Dimensions:	Width: 24" - Length: 32" Height: 2" - Weight: 10 lbs
Environments:	Operating: -40°C to +60°C Storage: -40°C to +70°C Humidity: 95%
Material:	Terne Metal, FR-4, Foam

Features:	Stable rugged construction Compact light weight Works in harsh conditions
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## Typical Gain and Pattern of Annular Slot Antenna



### Ordering Information

Antenna Model No. DASA-3151 Complete with Modulator and Cables  
DF Processor required Model No. AADF-3100

Specifications subject to change without notice

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One year warranty