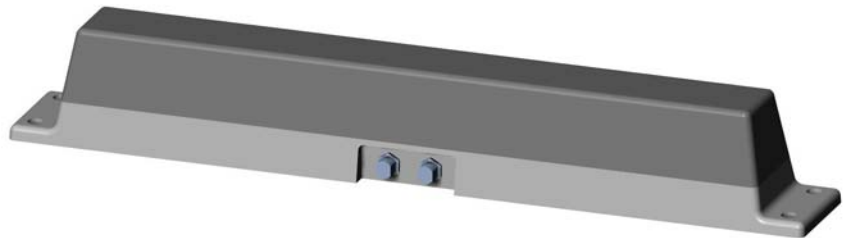


HF Direction Finding Antenna AS-140

- 0.5 to 30 MHz Frequency Coverage (without band switching or tuning)
- Direction Finding/Receive Antenna
- Passive (Linear Operation up to 100W)
- Designed for Surface Combatants or Other Extreme Environments
- Allows Flexibility of Siting Locations on Platforms
- Low Radar Signature
- Broadband – Full Instantaneous Bandwidth
- Conformal, Surface or Rooftop Mounting



The AS-140 HF DF antenna is specifically designed for shipboard applications requiring a low radar cross-section. It provides full instantaneous frequency bandwidth with linear operation up to 100W continuous. This antenna can be mounted on decks, bulkheads and other less desirable locations as well as rooftop locations. It is designed to withstand the severe shipboard physical environments typical on military surface combatants. The external surfaces of the antenna provide environmental protection for reduced maintenance.



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PERFORMANCE DATA

AS-140

- Type Passive Ferrite Core Loop
- Frequency Range 0.5 to 30 MHz
- Sensitivity (Field Strength Required to produce a 10dB (S+N/N) in a 3 kHz BW)

<u>Frequency (MHz)</u>	<u>Field Strength (dBμV/m)</u>
0.5	≤ 40
7	≤ 15
30	≤ 15
- Power Handling ≥ 100 W Continuous (at RF output)
- Number of Antenna Locations 12 to 16 per platform typical for HF DF Installation with beam steering vector match (BSVM) DF algorithm
- Size 4.24 H x 4.5" W x 28" L
- Weight 50 lbs
- Radar Reflectivity Reduced in comparison to metallic antennas
- Temperature Range

Operating	-28° to $+65^{\circ}$ C
Non-Operating	-62° to $+71^{\circ}$ C
- Vibration MIL-STD-167-1, Type 1
- Shock MIL-S-901D, Class 1
- Humidity 100%
- Wind Velocity 100 knots
- Icing 4.5 lb/ft²
- Output One RF (Type N Connector)
- Input Built-In RF Test Inject (Type N Connector)

For information only. Specifications subject to change.

for more information contact:

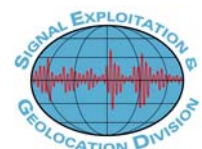
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