

AN/SSQ-573

Directional Passive Multi-Mode Sonobuoy

Passive

The AN/SSQ-573 Sonobuoy combines the world's leading passive acoustic performance of the AN/SSQ-53D(3) with the digital electronics design of the AN/SSQ-955 Sonobuoy. This buoy takes advantage of its digital signal processing capabilities to offer the user a choice of operational modes. These include a distortion free, high dynamic range passive acoustic receiver mode or a narrow band low frequency active receiver with automatic gain control. This buoy is ideal for use in high ambient noise conditions, e.g., in coastal environments, or as an active receiver for multistatic operations.

- A-size
- All Digital Design
- Electronic Function Select (EFS)
 - 99 programmable RF channels
 - Life
 - Depth
 - Mode
- Passive Receive Capability
- Active multistatic receiver capable
- Digital RF link available as an option
- Optional GPS kit available



SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Description *DIFAR, passive, directional*
Function *search, localization, surveillance*
Diameter *4.875 in (124 mm)*
Length *36.00 in (914 mm)*
Weight (bare buoy) *16.5 lbs (7.5 kg)*
CofG *15.25 in (38.7 cm) from end*

ENGINEERING DATA

Power Source *seawater activated battery (main power resources)
 9V alkaline (EFS display)*
Operating Depth *30 m, 60 m, 120 m, 300 m preselectable*
Descent Time (in water) *40 seconds (shallow)
 65 seconds (medium 1)
 100 seconds (medium 2)
 180 seconds (deep)*
Scuttling Time *At 8 hours, regardless of operating life*
Operating Life *1, 2, 4 or 8 hours*
Shelf Life *5 years in sealed container*
Unpacked Storage Life (minimum) *90 days*
NATO Stock Number *TBD*

TRANSMITTER CHARACTERISTICS

Frequency Range *136 MHz to 173.5 MHz*
Transmission Channels *99 preselectable, with EFS display*
RF Transmitter Power Outlet *1 Watt minimum*
Standard and LFA Receiver Mode .. *FM (conventional DIFAR format)*
Digital Mode *Coherent GMSK @ 224 kbps*

SENSOR CHARACTERISTICS

(Standard Mode)

Telemetry *5 - 3375 Hz range*
Frequency Response *5 - 2900 Hz range*
Sensitivity, Directional *122 ± 3 dB re 1 µPa at 100 Hz
 = 40 kHz peak dev*
Sensitivity, Omnidirectional *122 ± 3 dB re 1 µPa at 100 Hz
 = 25 kHz peak dev*

(LFA Receiver Mode)

Frequency Response *1411 - 2188 Hz range*
Maximum Deviation, Directional *30 kHz peak deviation*
Maximum Deviation, Omnidirectional *16.5 kHz peak deviation*

(Digital Mode)

Directional Frequency Range *5 - 2000 Hz range*
Extended Omni *5 - 4000 Hz range*
Sensitivity *1 MSB ≡ 154.4 dB re 1 µPa
 1 LSB (of 14) ≡ 76 dB re 1 µPa*



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