UM SONOBUOYS

AN/SSQ-53F DIFAR Sonobuoy

Directional Frequency Analysis Recorder

Key features

- Highly accurate directional sensitivity
- High power 97-channel RF transmitter
- Li/FeS_2 power source
- 21 lbs / 9.5 kg
- Field programmable
- CFS commandable
- Air launchable from fixed or rotary-wing aircraft

Overview

The AN/SSQ-53F DIFAR US Navy A-size sonobuoy combines a passive directional and calibrated wide-band omni capability into a single multi-functional sonobuoy.

This is the recommended DIFAR sonobuoy for international customers with older MPA platforms. The AN/SSQ-53F can operate in three acoustic sensor modes selectable via EFS or CFS.

A Constant Shallow Omni (CSO) provides acoustic information at a fixed depth of 45 ft (13.7 m) while a Calibrated Omni (CO) co-located with the DIFAR sensor provides acoustic information at a selectable operational depth. The Calibrated Omni sensor can operate with an acoustic bandwidth of 20 KHz (CO).

The AN/SSQ-53F DIFAR is air launchable from fixed or rotar-ywing aircraft, or it can be deployed from the deck of a surface vessel. Descent of the sonobuoy is stabilized and slowed by a parachute.

Technical Specification

Physical Description

Weight	21 lbs / 9.5 kg
Sonobuoy Launch Container	LAU-126/A

Performance Data

RF Command Receiver	UHF - single channel
RF Transmitter Power Output	1 W minimum
RF Transmitter Operating Frequency	97 channel selectable (136.000 to 173.500 MHz)
RF Transmitter Stability	+/- 25 kHz
Frequency Response	Selectable CSO: (30 - 5000 Hz) CO: (5 - 20 kHz) DIFAR: (5 - 2400 Hz)
Operating Life	0.5, 1.0, 2.0, 4.0, or 8.0 hours
Operating Depth	Selectable D1: 90 ft / 27 meters D2: 200 ft / 61 meters D3: 400 ft / 122 meters D4: 1000 ft / 305 meters
EFS Selections	RF Channel, Life, Depth Sensor, AGC Level
CFS Selections	RF, Life, Sensor, AGC, GPS, UHF
Launch Altitude	40 to 30,000 ft / 12 to 9144 meters
Launch Speed	0 to 370 KIAS
Shelf Life	5 years in sealed container
NSN	5845-01-475-9870
CAGE Code	1JGV5

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