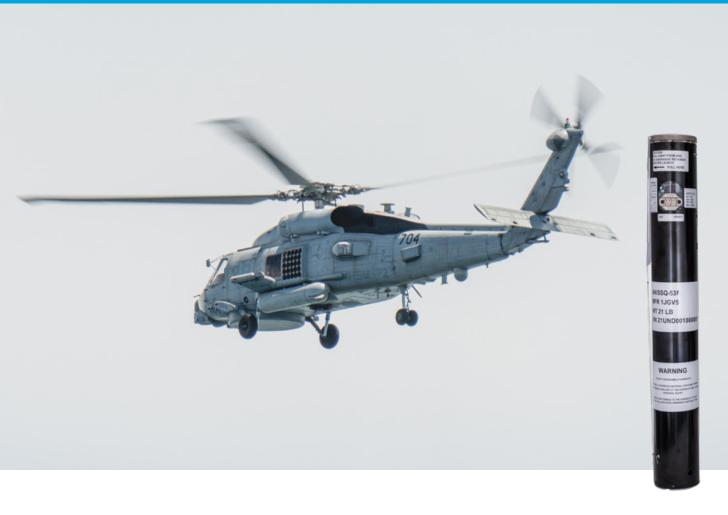


# AN/SSQ-53F DIFAR Sonobuoy

### Directional frequency analysis recorder



#### **Key features**

- All digital design
- Highly accurate directional sensitivity
- High power 97-channel RF transmitter
- LiSO2 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 1|GV5



+1 902 466 7491

sonobuoys@umaritime.com

umaritme.com