

AN/SSQ-62F DICASS Sonobuoy

Active Directional

The AN/SSQ-62F is a sixth-generation, Directional Command Active Sonobuoy System (DICASS) sonobuoy used for detecting and localizing submarines in preparation for attack. This GPS capable Sonobuoy requires Command Function Select (CFS).

The DICASS Sonobuoy is capable of providing both range and bearing to the target for accurate position fixing. Like the AN/SSQ-62E, the AN/SSQ-62F sonobuoy is capable of supporting any of the four acoustic frequencies as selected via the Electronic Function Select.

The AN/SSQ-62F also incorporates Command Function Select, which permits the operator to modify the sonobuoy's mode of operation after it has been deployed. The AN/SSQ-62F utilizes a standard Lithium Sulphur Dioxide battery pack.

The AN/SSQ-62F has added GPS location capabilities. The Sonobuoy transmits the GPS messages requested by CFS on a subcarrier centered at 33.5 KHz.

The AN/SSQ-62F is air launchable from fixed or rotary-wing aircraft or can be deployed from the deck of a surface vessel. The descent of the sonobuoy is stabilized and slowed by a parachute.

- All Digital Design
- CSG or CFS commandable
- High-power 97-channel RF Transmitter
- LiSO₂ power source
- CFS commandable
 - RF channel, additional depths, sonic frequency, GPS, etc.



SPECIFICATIONS

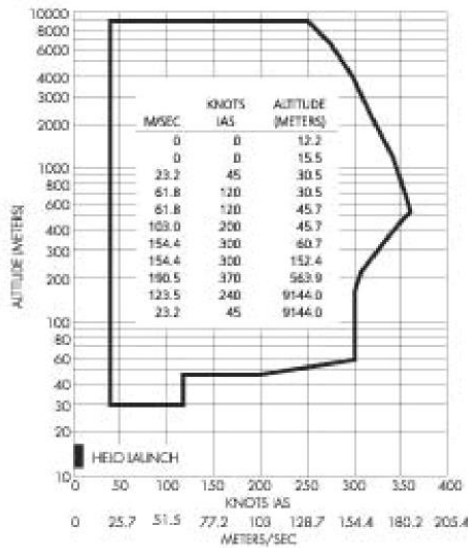
NSN 5845-01-628-5054 Lithium Sulphur Dioxide Battery

PHYSICAL CHARACTERISTICS

Weight 15.9 kg (35 lbs)

Sonobuoy Launch Container (SLC) 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 Frequency Stability.....±25 kHz

Multiplexed Composite consisting of
OmniDirect summation

Directional Data (2 Channels)Suppressed carrier quadrature
modulated on subcarriers

SonarSelectable acoustic channel (1 of 4)

Sonic Frequencies (any selectable from a single AN/SSQ-62F)
..... A: 6.5 kHz, B: 7.5 kHz, C: 8.5 kHz, D: 9.5 kHz

Operating Life..... 1 hour minimum

Operating Depth.....D1: 15m, 46m, 92m (50', 150' or 300')
D2: 27m, 120m or 460m (90', 400', or 1500')
Commandable to 46m and 92m or 120m and 460m

Transducer Array..... Piezoelectric Ceramic
Omni directional
Transmit/Directional Receive

Shelf Life 5 years in sealed container

Selections (Depth and RF Channel)..... Electronic Function Select

Selections (Depth, Acoustic Channel, GPS, RF Channel)Command Function Select