

AN/SSQ-62E DICASS Sonobuoy

Active Directional

The AN/SSQ-62E is a fifth-generation, all digital Directional Command Active Sonobuoy System (DICASS) used for detecting and localizing submarines in preparation for attack.

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

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

The AN/SSQ-62E DICASS is air launchable from fixed or rotary-wing aircraft. Descent of the sonobuoy is stabilized and slowed by a parachute. It is also easily deployable from the deck of a surface vessel.

- All Digital Design
- CSG or CFS commandable
 - *Depth, Life, Scuttle*
- High-power 96-channel RF Transmitter
- LiSO₂ power source
- CFS commandable
 - *RF channel, additional depths, sonic frequency*
- Compatible with all known airborne acoustic processors
- Factory configurable to AN/SSQ-62D or 62B standards



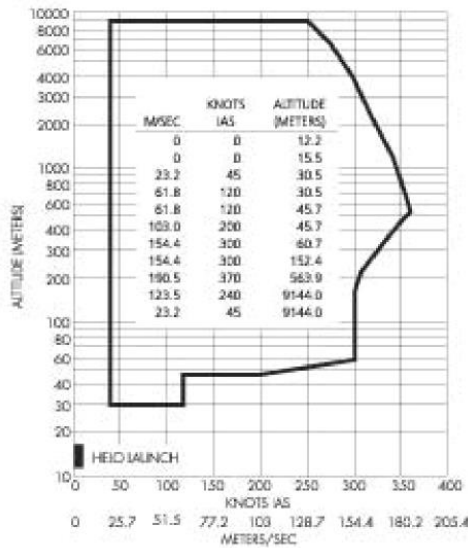
SPECIFICATIONS

NSN 5845-01-456-1317 Lithium Sulphur Dioxide Battery

PHYSICAL CHARACTERISTICS

Weight 15.9 kg (35 lbs)
 Sonobuoy Launch
 Container Compatible LAU-126/A

PERFORMANCE DATA



RF Command Receiver UHF - single channel
 RF Transmitter Power Output 1 W minimum
 RF Transmitter Operating Frequency 96 Channel selectable
 (136.000 to 173.500 MHz)
 RF Transmitter Frequency Stability ±25 kHz
 Multiplexed Composite consisting of
 Omni Direct summation
 Directional Data (2 Channels) Suppressed carrier quadrature
 modulated on subcarriers
 Sonar Selectable acoustic channel (1 of 4)

Sonic Frequencies (any selectable from a single AN/SSQ-62E)
 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 (Deep Depth and RF Channel) Electronic Function Select

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