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