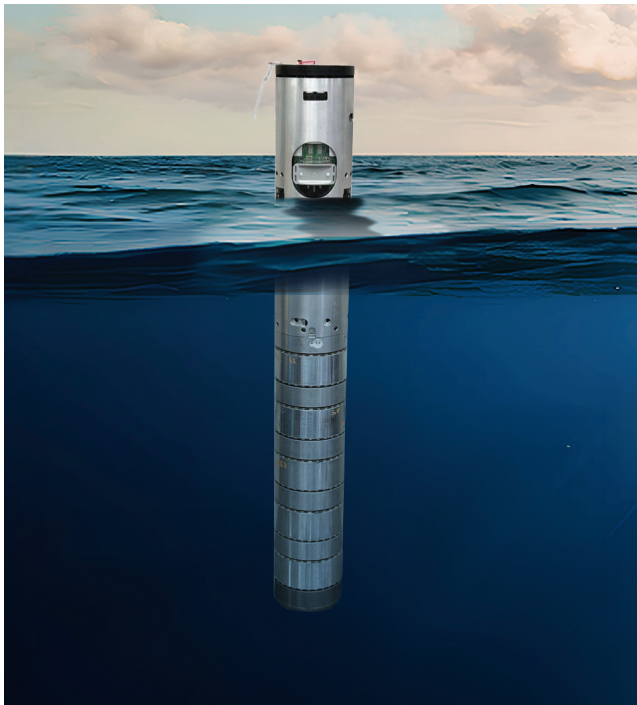




## 01

### Active Directional

The AN/SSQ-62F is a sixth-generation, Directional Command Active Sonobuoy System (DICASS) is a NATO A-size sonobuoy used for detecting and localizing submarines.

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 has added GPS location capabilities. The Sonobuoy transmits the GPS messages requested by CFS on a subcarrier.

## 02 Key Features

- 15-460 meters (50 to 1500 ft)
- 97-channel RF Transmitter
- All Digital Design

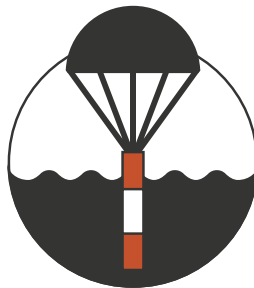
### Why Twenty-Six Defense Maritime

Twenty-Six Defense Maritime, a Twenty-Six Defense company, is a world leader in the design, development, testing and production of complex electromechanical systems and sensors, including Sparton sonobuoys. The company delivers a variety of sensing and advanced analytics capabilities that enable our nation to dominate the maritime domain.

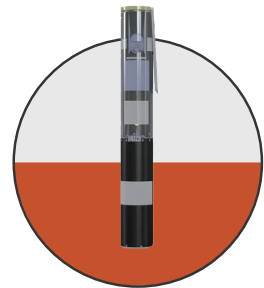
## 03 How it Works



The AN/SSQ-62F DICASS is air launchable from fixed or rotary-wing aircraft or surface vessel.



Descent of the sonobuoy is stabilized and slowed by a parachute.



Begins transmitting upon water entry.



AN/SSQ-62F DICASS  
NSN 5845-01-628-5054

04

Physical Characteristics

|                           |                     |
|---------------------------|---------------------|
| Weight                    | 17.46 kg (38.5 lbs) |
| 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                                                     |
| RF Transmitter Frequency Stability                                                                                                                                                                       | ± 25 kHz                                                                  |
| Multiplexed Composite consisting of Omni – Direct summation<br>Directional Data (2 Channels) – Suppressed carrier quadrature<br>modulated on subcarriers<br>Sonar – Selectable 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                                                                                                                                                                                          | 15-460 meters (50-1500 ft)                                                |
| Transducer Array                                                                                                                                                                                         | Piezoelectric Ceramic<br>Omni directional<br>Transmit/Directional Receive |
| Shelf Life                                                                                                                                                                                               | 5 years in sealed container                                               |
| Selections (Deep Depth and RF Channel)                                                                                                                                                                   | Electronic Function Select                                                |
| Selections (Depth, Acoustic Channel, GPS, RF Channel)                                                                                                                                                    | Command Function Select                                                   |