UM SONOBUOYS

Active Multistatic Source Sonobuoy (ALFEA)

AN/SSQ-926 ALFEA

Key features

- ITAR -free
- Commandable active sonobuoy for multistatic use
- 'A' size
- High power
- 1.6 - 2 kHz source
- Programmable waveform types
- 3 depth capability
- Autonomous Function Select GPS fitted

Overview

The Ultra Maritime SSQ-926 Active Low Frequency Electro-Acoustic (ALFEA) Sonobuoy has been designed specifically for use as a high power, low frequency electro-acoustic source in Multistatic buoy fields.

In conjunction with High Instantaneous Dynamic range Analysis and Recording (HIDAR) passive receive sonobuoys in a Multistatic field, the power and frequency provide exceptional detection and tracking performance even in difficult water conditions.

For operator convenience, the sonobuoy has intuitive Autonomous Function Select, which includes two buttons and a small display. Safety mechanisms prevent actuation or deployment until the parachute has deployed normally and the buoy has entered the sea water.

Technical Specification

Following launch and deployment, the ALFEA Sonobuoy telemetry sent to the aircraft includes status and GPS data.

The sonobuoy is controlled by commands transmitted from the aircraft over a UHF radio link.

The commands include control of a programmable ping library containing both traditional and novel ping types.

Sonobuoy Characteristics

Description	Coherent active source for multistatic operations	
Dimensions	'A' size Length:	914 mm (36.0 in
	Diameter:	123.825 mm (4.875 in)
	Weight:	15.9 kg (35.1 lbs)
Deployment (gravity launch)	Platform speed:	50 kts to 300 kts
	Platform altitude:	55 m to 3048 m (180 ft to 10,000 ft)
Operating Depth	AFS programmable 3 selectable depths	
Operating Life	AFS programmable 1, 2, 3, 4, 5 and 6 hours. Automatic or command scuttle	
RF Channel	AFS programmable Channels 1 to 99 (136 MHz to 173.5 MHz, 375 kHz spacing)	
VHF Radiated RF Power	1 Watt nominal	
Acoustic Output	Frequency Range:	1600 to 2000 Hz Programmable waveforms
VHF Radiated RF Power	1 Watt nominal	
Modulation	FM Analogue DIFAR compatible with GPS	
Temperature Range	Seawater operating:	-2°C to + 35°C
	Un-packaged non-operating:	-50°C to + 70°C
	Packaged:	-50°C to + 70°C
Sea State	Operate:	Sea State 5
	Survive:	Sea State 7
Storage Life	Packaged:	7 Years
	Unpackaged:	90 Days

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NATO STOCK NUMBER
SSQ-926 ALFEA:
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