Ultra has developed its latest SLB-90 device to meet ARINC 677 2015 (ICAO Annex 6 Amendment 36).

From January 1 2018, all aircraft weighing more than 27 tonnes flying over water and built after 2005 are to be fitted with a low frequency Airframe Locator Beacon, to the specifications of SAE AS6254A.

Based on the success of the original Ultra Electronics Sonar Locator Beacon (SLB), the Ultra Electronics SLB-90 is fully compliant with the latest international Underwater Locator Beacon (ULB) standards. These include DEF-STAN 00-970 part 13/11 and AS 6254, meeting the demands of both the military and civilian / commercial aviation markets.

Directly interchangeable with Ultra’s Type T17638 SLB, the SLB-90 requires no requalification of airframes already fitted with the T17638 SLB.

Activated upon immersion in either salt or fresh water, the SLB-90 transmits an acoustic underwater signal.

Whilst the SAE AS6254A standard allows operation in a frequency band 8.8kHz ±1kHz, the 9.5kHz frequency is specifically selected to take advantage of the additional gain provided by CAMBS, which can more than double the detection range compared to omnidirectional receivers.

Features
- 9.5kHz operating frequency
- >90 day operational life at 160dB acoustic output
- Directly interchangeable with Ultra’s existing Type T17638 SLB
- 20,000ft (6,096m) operational depth
- Withstands pressures >8,920psi (615 bar)
- Automatic initiation upon immersion in salt and fresh water
- Compliant with:
  - DEF-STAN 00-970 part 13/11
  - ARINC 677 2015 (ICAO Annex 6 Amendment 36)
  - SAE AS6254A

Ultra Electronics Underwater Warfare

Command & Sonar Systems
Sonar Locator Beacon SLB-90

Specification SLB-90

DESCRIPTION
Sonar Locator Beacon for underwater airframe location.

COMPLIANT WITH
• DEF-STAN 00-970 part 13/11
• SAE AS6254A
• ARINC 677 2015 (ICAO Annex 6 Amendment 36)

DIMENSIONS
(identical to Ultra Electronics’ T17638 SLB)
Diameter
75mm (2.95in)

Length
150mm (5.9in)

Weight
1.3kg (2.86lbs)

OPERATING FREQUENCY
9.5kHz +/-0.15kHz

ACOUSTIC OUTPUT
160dB re 1µPa @ 1m

OPERATIONAL LIFE
>90 days

OPERATIONAL DEPTH
>20,000 ft (6,096m)

ACTIVATION
Automatic initiation upon immersion in salt and fresh water

OPERATING TEMPERATURE RANGE
-2 °C (28 °F) to +38 °C (100 °F)

STORAGE LIFE
5 years

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