

METRIC

A-A-59002/3

31 May 1995  
 Superseding  
 MIL-L-24223/3 (SH)  
 22 October 1986

## COMMERCIAL ITEM DESCRIPTION

LOUDSPEAKER, SHIPBOARD ANNOUNCING SYSTEMS  
 ENCASED, 70.7 VOLT, 80 VOLT-AMPERES

The General Services Administration has authorized the use of this commercial item description as a replacement for MIL-L-24223/3 which is canceled.

The requirements for acquiring the loudspeaker described herein shall consist of this specification and the latest issue of A-A-59002.

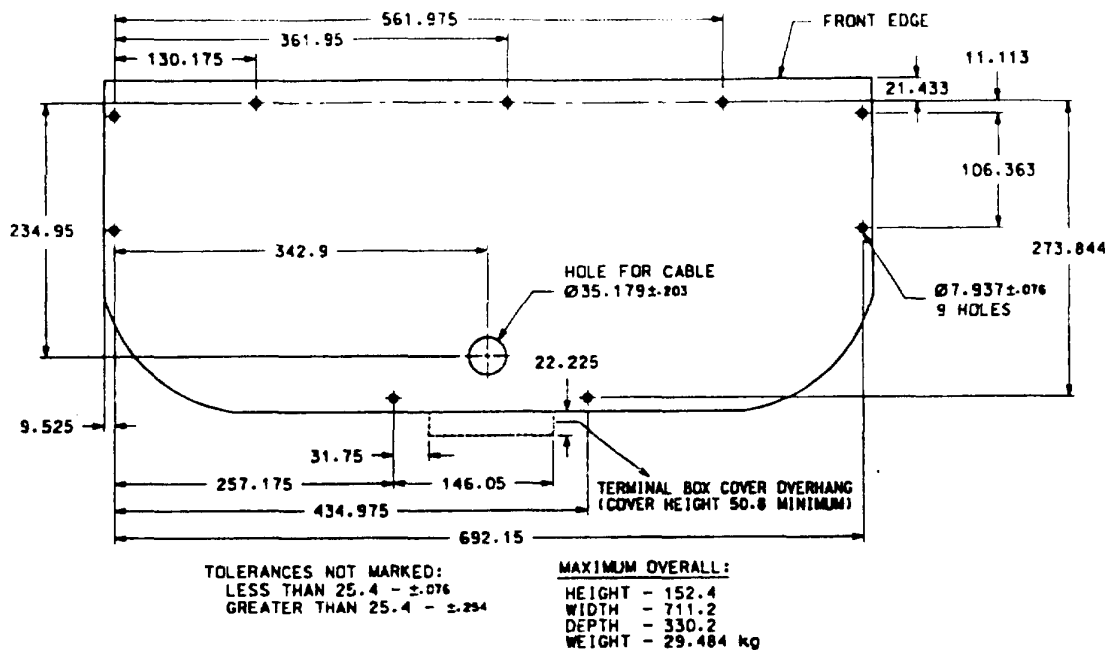
1. **Scope.** This Commercial Item Description covers requirements for a deck-mounted loudspeaker using multiple speaker drivers for use in high-noise areas.
2. **Salient characteristics.**
  - 2.1 **Dimensions and weight.** See figure 1.
  - 2.2 **Cable entrance.** See figure 1. Stuffing tubes are not required.
  - 2.3 **Enclosure.** All surfaces of the loudspeaker shall have drainage provision when the unit is mounted level. Loudspeaker shall meet the requirements of A-A-59002 degree of enclosure. Application is shipboard, unsheltered, flight deck.
  - 2.4 **Foreign object damage protection.** The speaker shall be protected so that any particle having any dimension greater than 7.5 mm will not penetrate to the operating components of the speaker.
  - 2.5 **Speaker drivers.** Speaker driver assemblies shall not exceed five.
  - 2.6 **Rated continuous sinusoidal single frequency.** For any single frequency input from 320 through 3200 Hz, the rated input shall be less than 80 volt-amperes rms, and no less than 69.6 volt-amperes rms.
  - 2.7 **Peak input voltage.** Peak input shall be at least two times the maximum volt-ampere input specified in table I herein when tested as specified in A-A-59002
  - 2.8 **Voice coil impedance.**  $4 \pm 0.4$  ohms.
  - 2.9 **Sound pressure output.** Minimum rms sound pressure output in dB re 20 micropascals at rated input shall be as specified in table I, when measured in accordance with A-A-59002.
  - 2.10 **Coverage angle.** At least 30 degrees in horizontal and 60 degrees in vertical, from 320 to 2000 Hz.
  - 2.11 **Frequency.** Response shall be within the figure 2 limits over the band shown.

AMSC N/A

FSC 6320

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All dimensions are in millimeters.

FIGURE 1. Mounting dimensions for LS 657( )/SIC.

TABLE I. Minimum on-axis sound pressure (rms dBp).

Nomenclature	Distance to test MIC (meters)	Volt-ampere input (max)	Warble bands - Hz					
			320 to 500	500 to 800	800 to 1250	1250 to 2000	2000 to 3200	3200 to 5000
LS 657( )/SIC	3.048	80	111	110	116	120	116	-

2.12 **Volume control.** None required.

2.13 **Fundamental resonance.** A minimum of two speaker elements in the assembly shall be measured and reported.

2.14 **Temperature.** The operating temperature limits shall be  $-25^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ . The non-operating temperature limits shall be  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ , for unsheltered shipboard use.

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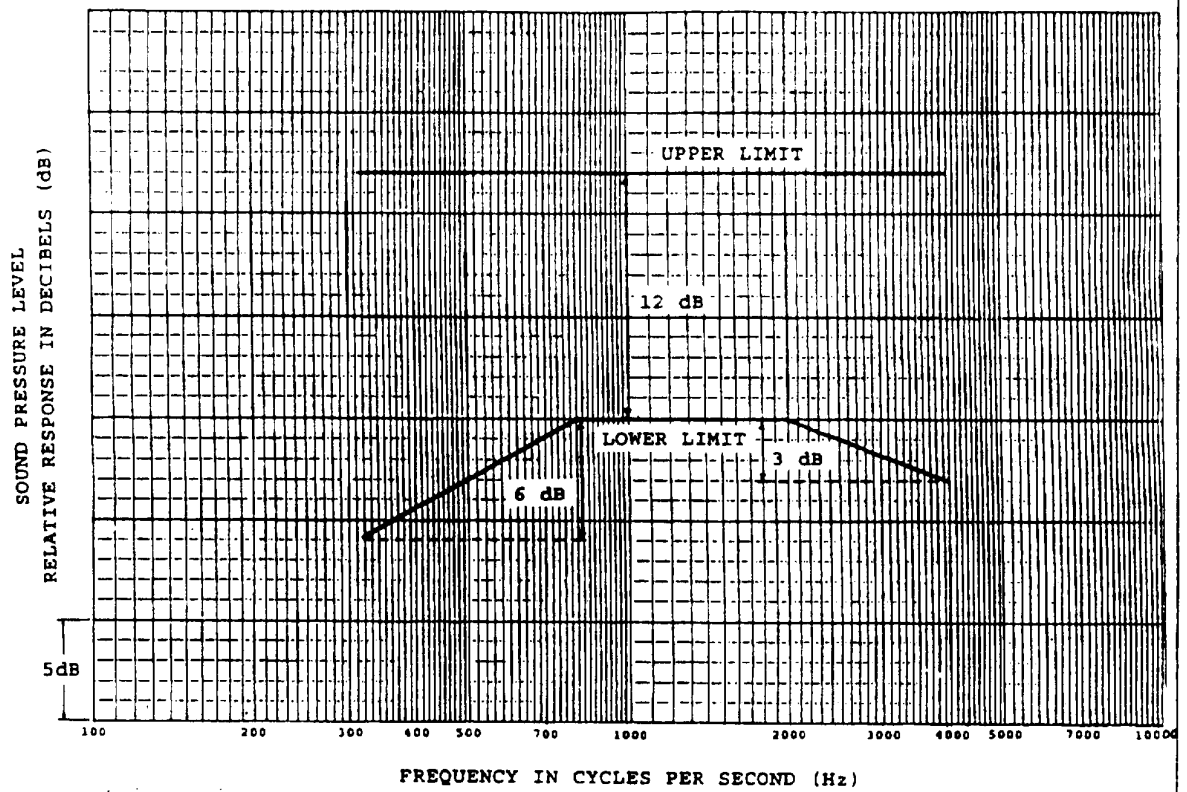


FIGURE 2. Frequency response.

Preparing Activity  
Navy - SH  
(Project 6320-0044)