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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 an y 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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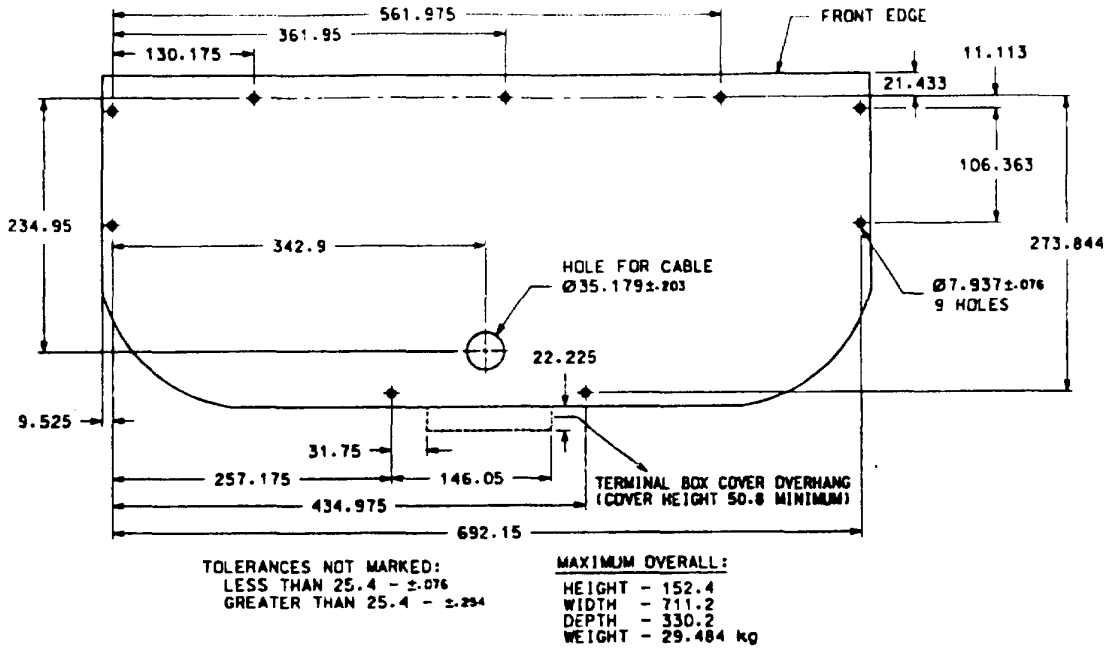

All dimensions are in millimeters.

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°C to +65°C. The non-operating temperature limits shall be -40°C to +70°C, for unsheltered shipboard use.

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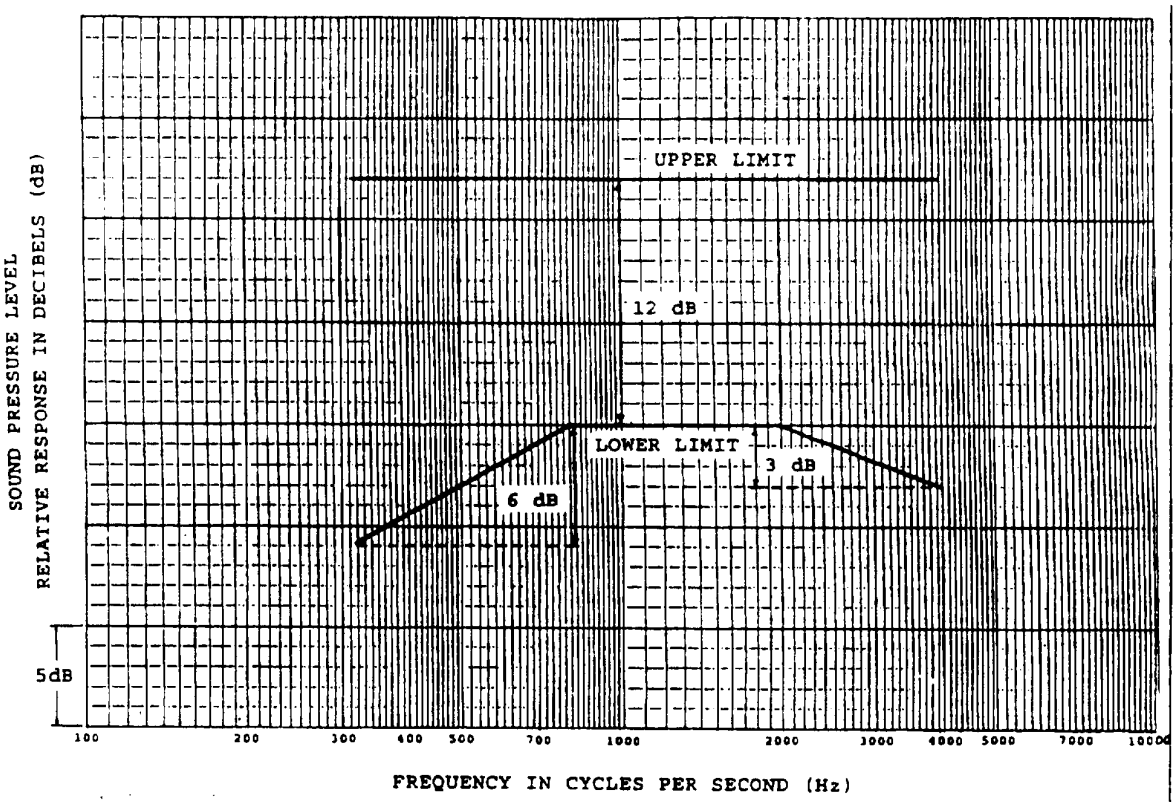

FIGURE 2. Frequency response.

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