

METRIC

A-A-59002/1

31 May 1995
Superseding
MIL-L-24223/1
22 October 1986

COMMERCIAL ITEM DESCRIPTION

LOUDSPEAKER, SHIPBOARD ANNOUNCING SYSTEMS ENCASED,
70.7 VOLT, 1 TO 5 VOLT-AMPERES

The General Services Administration has authorized the use of this commercial item description as a replacement for MIL-L-24223/1 which is canceled.

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

1. **Scope.** This Commercial Item Description covers requirements for an interior shipboard announcing loudspeaker.

2. **Salient characteristics.**

2.1 **Dimensions and weight.** See figure 1.

2.2 **Front face assembly.** The front face assembly shall mount the loudspeaker element, transformer, and volume control switch (if applicable). The front face assembly shall be chain bolted to the mounted enclosure.

2.3 **Drainage hole or slot.** A drainage hole, with maximum dimension of 10 mm and minimum dimension of 6 mm, shall be provided through the bottom, (when bulkhead mounted), front edge of the mounted portion of the enclosure.

2.4 **Protective screen.** Any protective screen attached to the front face speaker opening must not reduce the open area by more than 30 percent.

2.5 **Enclosure.** In accordance with figure 1. Speaker element mounting shall be in accordance with EIA RS 278. Application is shipboard, sheltered.

2.6 **Cable entrance.** Stuffing tube is to be provided by installing activity. Two holes shall be provided in the bottom of the loudspeaker enclosure. One hole shall be filled with a plastic plug.

2.7 **Peak volt-ampere capacity.** At least 2.50 time maximum volt-ampere of Table I. Testing in accordance with A-A-59002.

2.8 **Sound pressure output.** Decibel (dB) re 20 micropascals at 1.524 m on-axis shall be as specified in Table I; with not more than the volt-ampere input specified in Table I, when measured in accordance with A-A-59002.

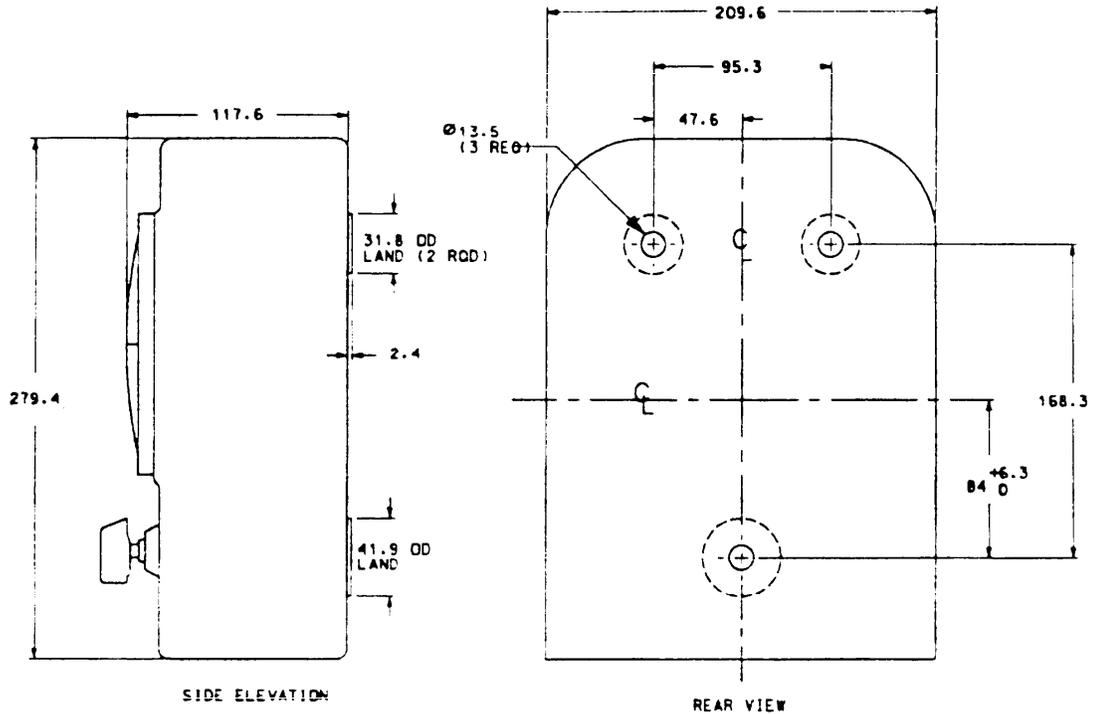
2.9 **Loudspeaker coverage angle.** 180 degrees in the vertical and horizontal planes, measured as specified in A-A-59002.

AMSC N/A

FSC 6320

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

A-A-59002/1



All dimensions are in millimeters
Maximum weight: 4.54 kg.

FIGURE 1. Loudspeaker.

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

Nomenclature	Warble bands - Hz						Maximum continuous volt-ampere input	320 to 2000 Hz coverage angle (degrees)	
	320 to 500	500 to 800	800 to 1250	1250 to 2000	2000 to 3200	3200 to 5000			
LS 305/SIC, LS 530/SIC	LS 306/SIC, LS 531/SIC	88	88	90	90	90	88	1.25	180

2.10 **Frequency response.** Shall fall within the figure 2 limits over the band shown for any volume setting.

2.11 **Temperature.** The operating temperature limits shall be 0°C to +50°C. The non-operating temperature limits shall be -40°C to -70°C, for sheltered shipboard use.

2.12 **Volume selection.** LS 305/SIC and LS 530/SIC shall have internal volume control. LS 306/SIC and LS 531/SIC shall have external volume control.

2.13 **Stray magnetic field.** Low stray magnetic field loudspeakers such as LS 530/SIC and LS 531/SIC shall not exceed 105 gamma (0.105 millioersted). All material except the permanent magnet shall be non-magnetic having a permeability of 2.0 or less after fabrication.

A-A-59002/1

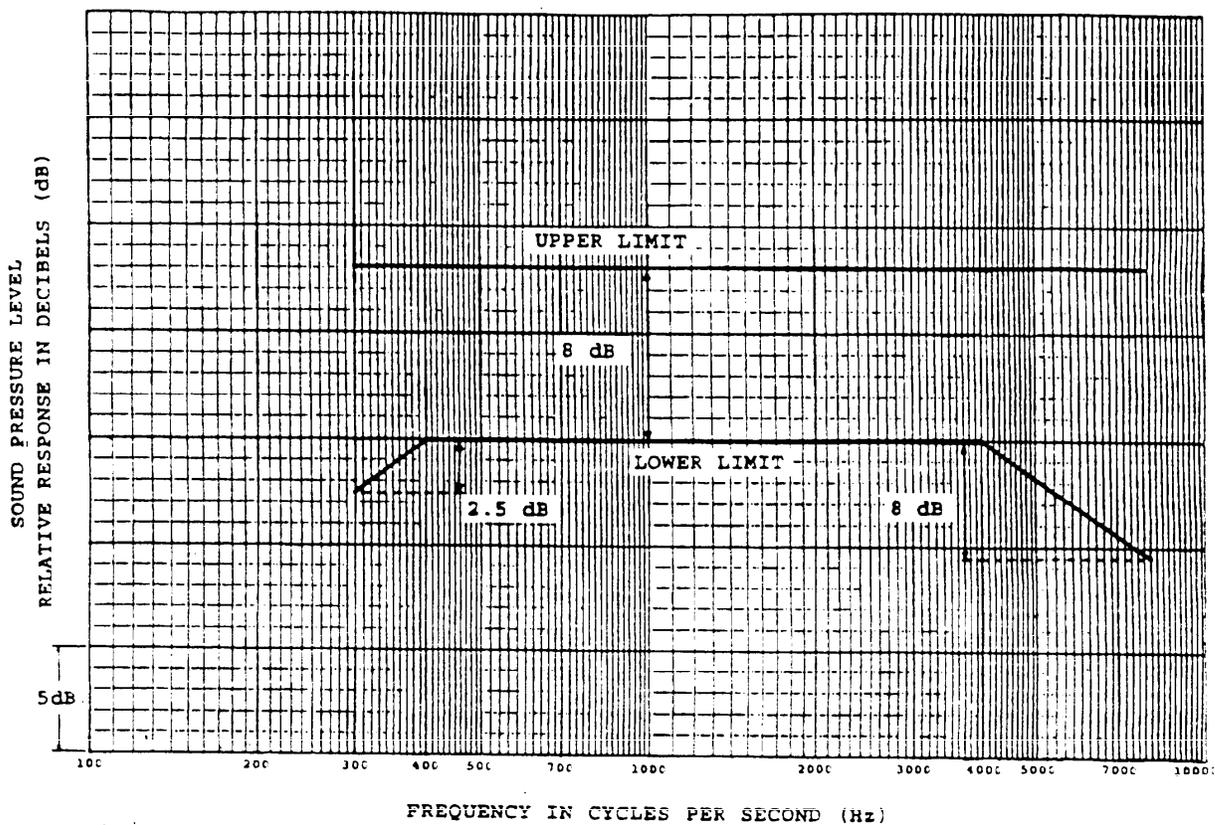


FIGURE 2. Frequency response.

Preparing Activity:
Navy - SH
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