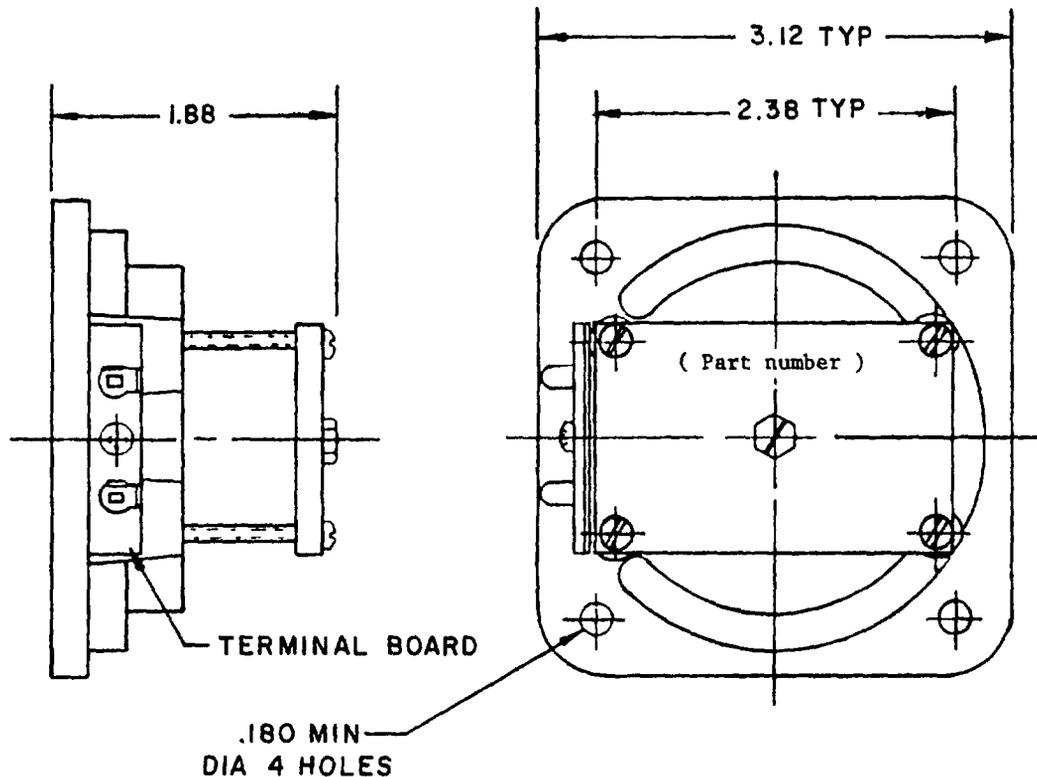


MILITARY SPECIFICATION SHEET

LOUDSPEAKER, PERMANENT MAGNET,  
 (UNENCASED, 3-INCH DIAMETER CONE)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the loudspeaker described herein shall consist of this specification and the latest issue of MIL-L-10911.



INCHES	MM
.180	4.57
1.88	47.75
2.38	60.45
3.12	79.25

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
3. Tolerances are  $\pm .005$  (.13 mm) for three place decimals and  $\pm .02$  (.51 mm) for two place decimals.
4. Radial mounting slots may be substituted for the circular holes provided that the centerlines of the slots coincide with the centerline of the holes and the slots include the circular holes specified.

FIGURE 1. Loudspeaker.

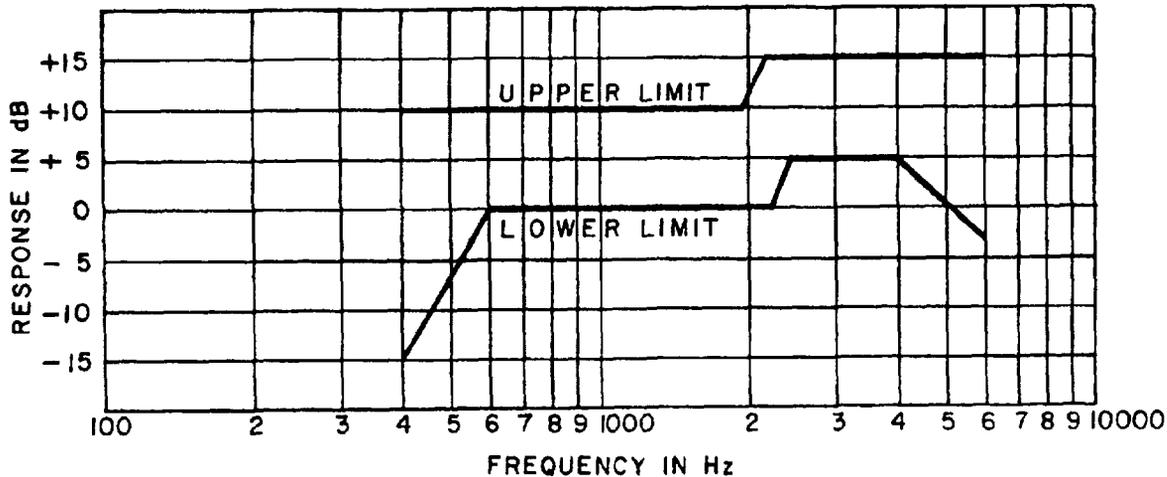


FIGURE 2. Frequency response limits.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Testing enclosure for measuring frequency response, harmonic distortion, vibration, and shock: 5 x 5 x 3-inch test cabinet with 2 3/4-inch diameter loudspeaker opening.

Terminal finish: Hot-dip solder (finish M221 of MIL-F-14072).

Power capacity: 2 watts, rms.

Peak power capacity: 4 watts, rms.

Dielectric withstanding test voltage: 400 ±5 volts.

Voice coil impedance:

Dash number 01: 4-8 ohms.

Dash number 02: 45 ohms.

Frequency response range: 400 to 6000 Hz (frequency response shall be within the limits shown on figure 2).

Frequency response: 97 dB minimum within 750 to 1250 Hz.

Harmonic distortion:

Dash number 01: 1 percent maximum.

Dash number 02: 5 percent maximum.

Cold resistance: The chamber shall be maintained at  $-80 \pm 0$ ,  $-5^{\circ}\text{F}$  for 24 hours and then stabilized at  $-65 \pm 0$ ,  $-5^{\circ}\text{F}$ .

Solderability (dash number 01): Applicable.

Vibration, high frequency (dash number 01): Method 204 of MIL-STD-202, test condition D.

Shock (specified pulse) (dash number 01): Applicable.

Marking:

Military part number: M10911/6-01 or M10911/6-02 as specified.

Date code: Applicable.

Revision letters are not used to denote changes due to the extensiveness of the changes.

NOTE: Impedance variations may be accomplished by either the use of voice coils wound to meet the specified impedance, or the installation of impedance matching transformers providing other performance characteristics are not adversely affected.

Custodians:

Army - CR  
Navy - EC  
Air Force - 85

Preparing activity:  
Air Force - 85

(Project 5965-0176-7)

Review activities:

Army - ER  
Navy - OS, SH  
Air Force - 13, 11  
DLA - ES

User activities:

Army - AT, AV, ME, MI, AR  
Navy - AS, MC  
Air Force - 17

Agent:

DLA - ES