

INCH-POUND

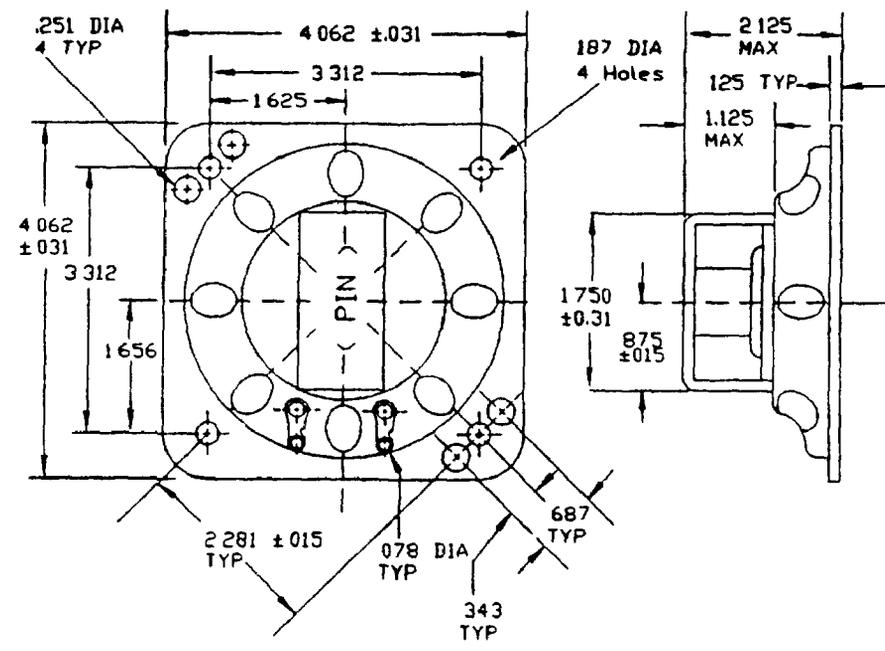
MIL-L-10911/88  
 17 March 1995  
 SUPERSEDING  
 MIL-L-10911/8A  
 20 October 1982

MILITARY SPECIFICATION SHEET

LOUDSPEAKER, PERMANENT MAGNET,  
 (UNENCASED, 4-INCH DIAMETER CONE)

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

The requirement for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-L-10911



Inches	mm	Inches	mm	Inches	mm
.015	.38	.251	6.38	1.562	39.67
.031	.79	.343	8.71	1.656	42.06
.078	1.98	.687	17.45	1.875	47.63
.125	3.18	.781	19.84	2.281	57.94
.187	4.75	1.000	25.40	3.312	84.12
				4.062	103.17

NOTES:

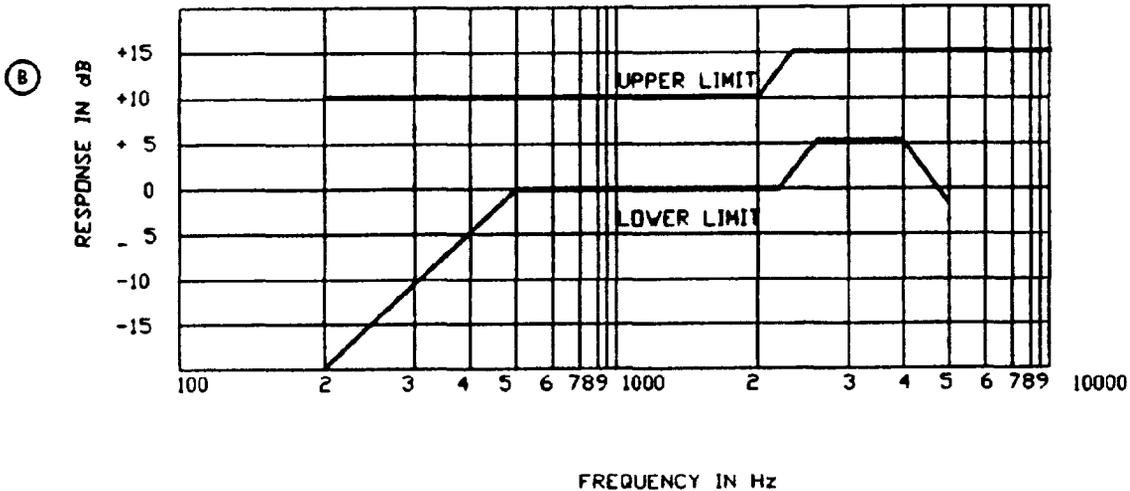
1. Dimensions are in inches.
2. Metric equivalents are given for general information only
3. Tolerances are ±.005 (0.13 mm) for three place decimals and ±.02 (0.51 mm) for two place decimals.

FIGURE 1. Loudspeaker M10911/8-01 and M10911/8-02.

(B) denotes changes

AMSC N/A

FSC 5965

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 2.75-inch diameter loudspeaker opening.

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

**Power capacity:** 2 watts, rms.

**Peak power capacity:** 5 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:** 200 to 5,000 Hz.

**Frequency response:** Within the limits of figure 2; 0 dB = 94 dB (see figure 2) above 0.0002 dyne/cm<sup>2</sup> within 200 to 5,000 Hz.

Harmonic distortion:

Dash number 01: 1 percent maximum.

Dash number 02: 5 percent maximum.

Cold resistance: The chamber shall be maintained at -80°F, +0°F -5°F for 24 hours and then stabilized at -65°F, +0°F -5°F.

Solderability (dash number 01): Applicable.

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

Marking:

Part Identifying Number (PIN): M10911/8-01 or M10911/8-02 as specified.

Date code (dash number 01): Applicable.

Interchangeability: The loudspeaker M10911/8-01 is interchangeable with the LS-455/U.

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.

CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - EC  
Air Force - 85

Preparing activity:

DLA - ES

(Project 5965-0204)

Review activities.

Army - AR, AT, AV, ER, ME, MI  
Navy - AS, MC, OS, SH  
Air Force - 13, 17