

INCH-POUND
MIL-PRF-25670/1B
w/AMENDMENT 2
26 August 2024
SUPERSEDING
MIL-PRF-25670/1B
w/AMENDMENT 1
12 September 2014

PERFORMANCE SPECIFICATION SHEET

EARPHONE ELEMENT, H-136/AIC

Inactive for new design after December 30, 1996

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

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-PRF-25670.

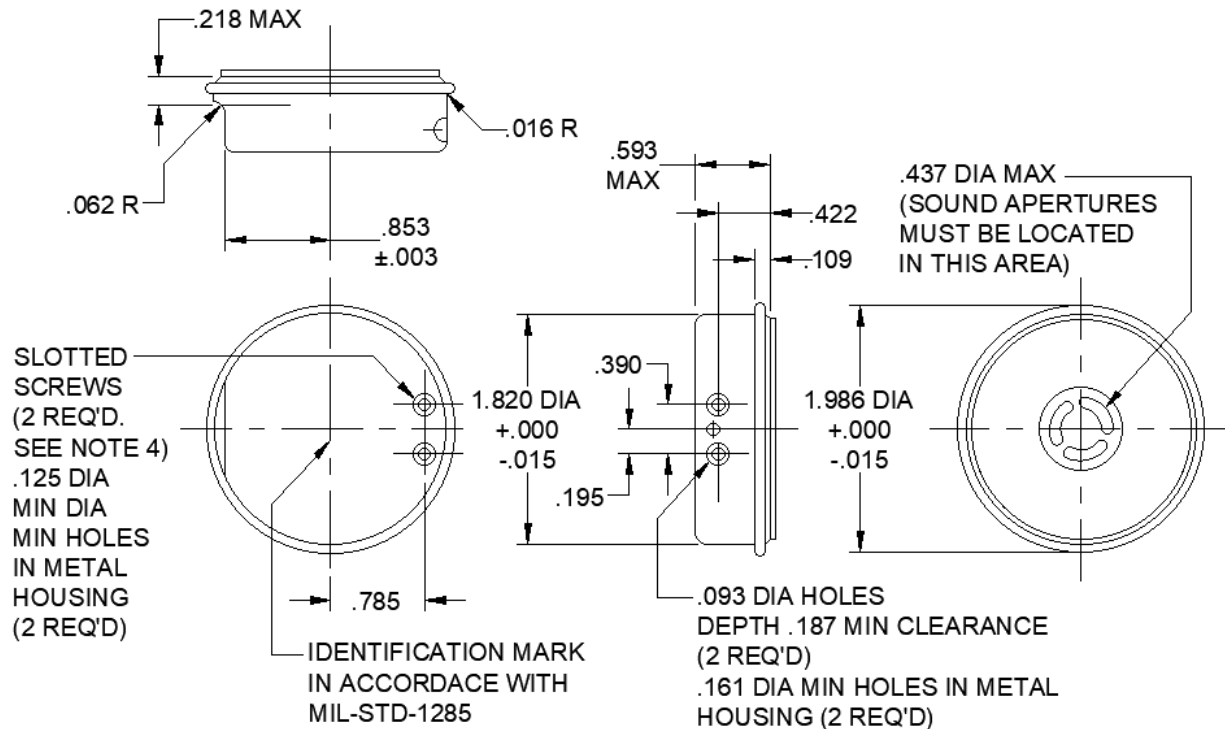


FIGURE 1. Earphone element, H-136/AIC.



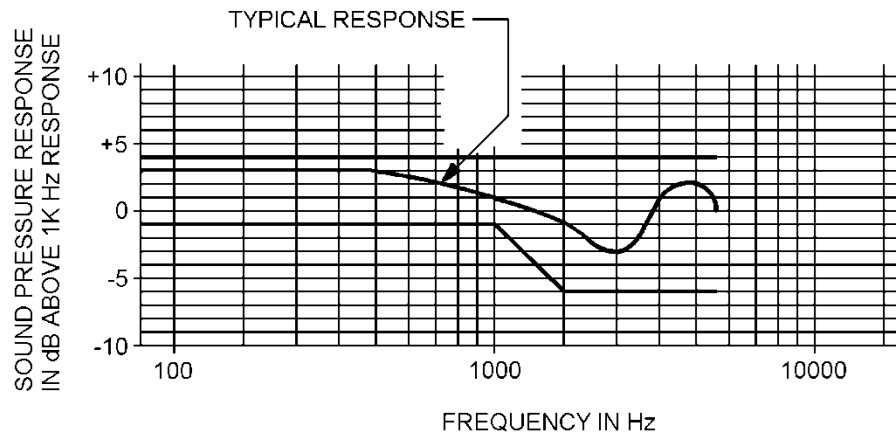
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NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ± 0.010 (0.25 mm).
3. Metric equivalents are given for information only.
4. Set-screws shall hold the earphone securely to the wire contacts, shall be slotted (for interchangeability of spares among manufacturers and service applications), and shall be recessed.

Inches	mm	Inches	mm	Inches	mm
.003	0.08	.125	3.18	.422	10.72
.015	0.38	.161	4.09	.437	11.10
.016	0.41	.187	4.75	.593	15.06
.062	1.57	.195	4.95	.785	19.94
.093	2.36	.218	5.54	.853	21.67
.109	2.77	.390	9.91	1.820	46.23
				1.986	50.44

FIGURE 1. Earphone element, H-136/AIC – Continued.



Frequency points	100 Hz	1,050 Hz	2,000 Hz	4,500 Hz
Upper limits (dB)	+4.0	+4.0	+4.0	+4.0
Lower limits (dB)	-1.0	-1.0	-6.0	-6.0

FIGURE 2. Ground level frequency response envelope for earphone element, H-136/AIC.

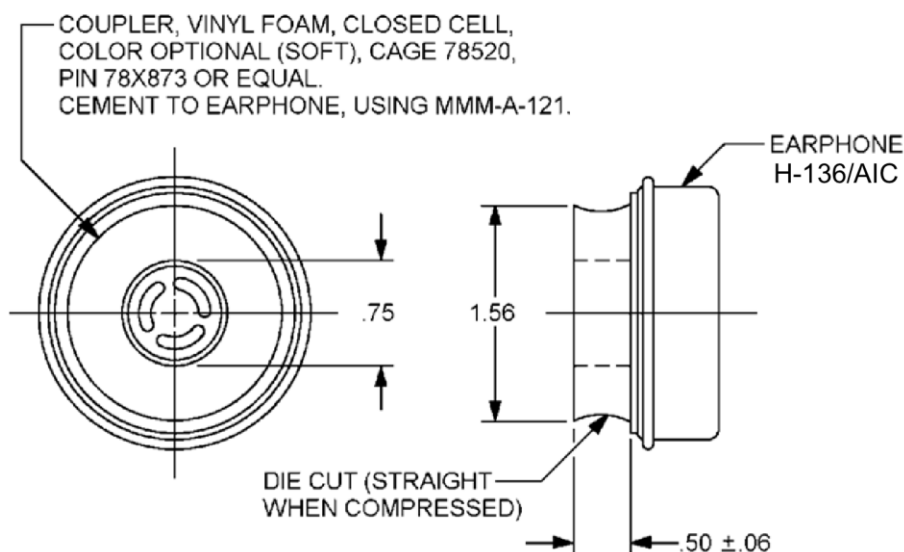
REQUIREMENTS

Dimensions and configuration: See figure 1.

Maximum weight: 3 ounces.

Color and finish: Normally exposed surface shall be semi-gloss yellow ID #23538, in accordance with SAE AMS-STD-595.

Face: A coupler of rubber cellular latex shall be mounted on the face of the earphone element surrounding the sound aperture and shall be as specified on figure 3.



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .03$ inches.
3. Metric equivalents are given for information only.

Inches	mm
.06	1.52
.50	12.70
.75	19.05
1.56	39.62

FIGURE 3. Earphone with coupler.

Nominal coil clearance: .012 inch (0.30 mm) minimum.

Stray magnetic fields: 5 degrees maximum deflection, with earphone at 8 inches (203.2 mm) distance from compass.

Frequency response: At ground level and with the limits specified on figure 2, the response above 4,500 Hz should drop off as rapidly as practicable.

Sensitivity: 100 $\pm$ 3 dB, above 20 μ Pa at 1,000 Hz and ground level.

Impedance: 22.5 $\pm$ 3 ohms at 1,000 Hz. Between 100 and 3,000 Hz, impedance shall not differ by more than 0.5 ohm from the 1,000 Hz value.

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Harmonic distortion: 5 percent maximum between 100 and 4,000 Hz.

Interchangeability: The H-136/AIC earphone element is interchangeable with telephone receiver no. 10247.

Referenced documents: In addition to MIL-PRF-25670, this document references the following:

MMM-A-121
MIL-STD-1285
SAE AMS-STD-595

Amendment notations. The margins of this specification sheet are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

CONCLUDING MATERIAL

Custodians:
Air Force – 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5965-2024-004)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.