

INCH-POUND

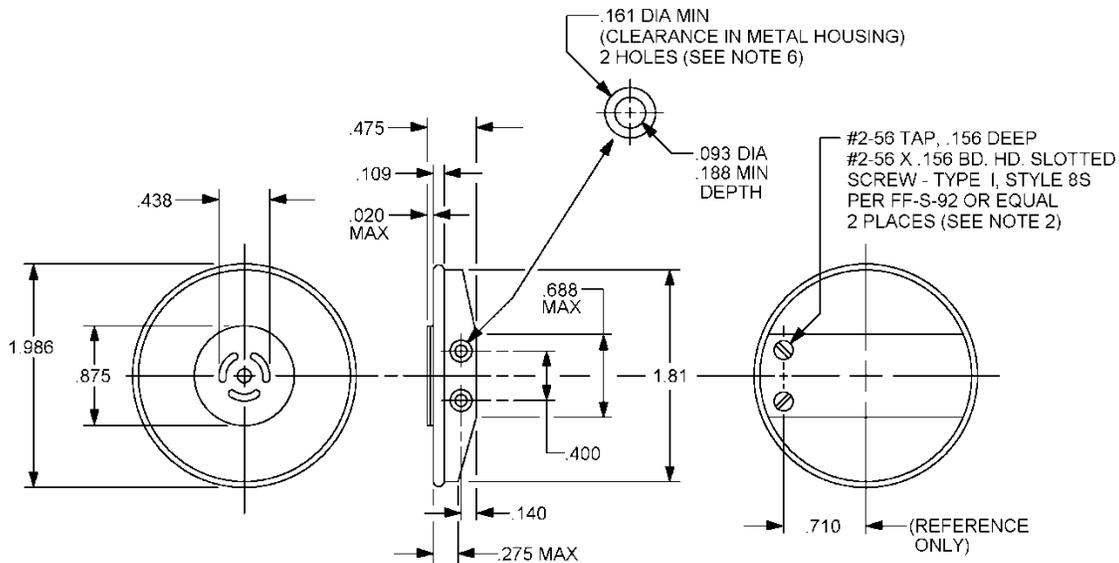
MIL-PRF-25670/5
w/AMENDMENT 2
12 September 2014
SUPERSEDING
MIL-PRF-25670/5
w/AMENDMENT 1
23 May 2005

PERFORMANCE SPECIFICATION SHEET

EARPHONE ELEMENT, 1000 OHM
GROUND LEVEL, WATER-IMMERSIBLE, M25670/5-01

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.



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.020	0.51	.156	3.96	.400	10.16	.710	18.03
.093	2.36	.161	4.09	.438	11.13	.875	22.23
.109	2.77	.188	4.78	.475	12.07	1.81	45.97
.140	3.56	.275	6.99	.688	17.48	1.986	50.44

NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerance is $\pm .015$ decimals.
2. Screws shall be recessed, of type slotted or Allen (for interchangeability of spares), and shall securely hold the next-higher-assembly headset-connector pins, preventing inadvertent disconnection.
3. Use of quantity and location of breather holes are optional.
4. All outer dimensions shall ensure a firm positioning of the element in standard earcup foam filler material (depth, contour, ear-position), as well as within the standard earcup retaining-ring.
5. Cable-connection holes shall be positioned within reach of standard-length headset cabling.
6. Requirement for clearance around holes applies, only when earphone is encased in a metal shell.

FIGURE 1. Earphone element, M25670/5-01.

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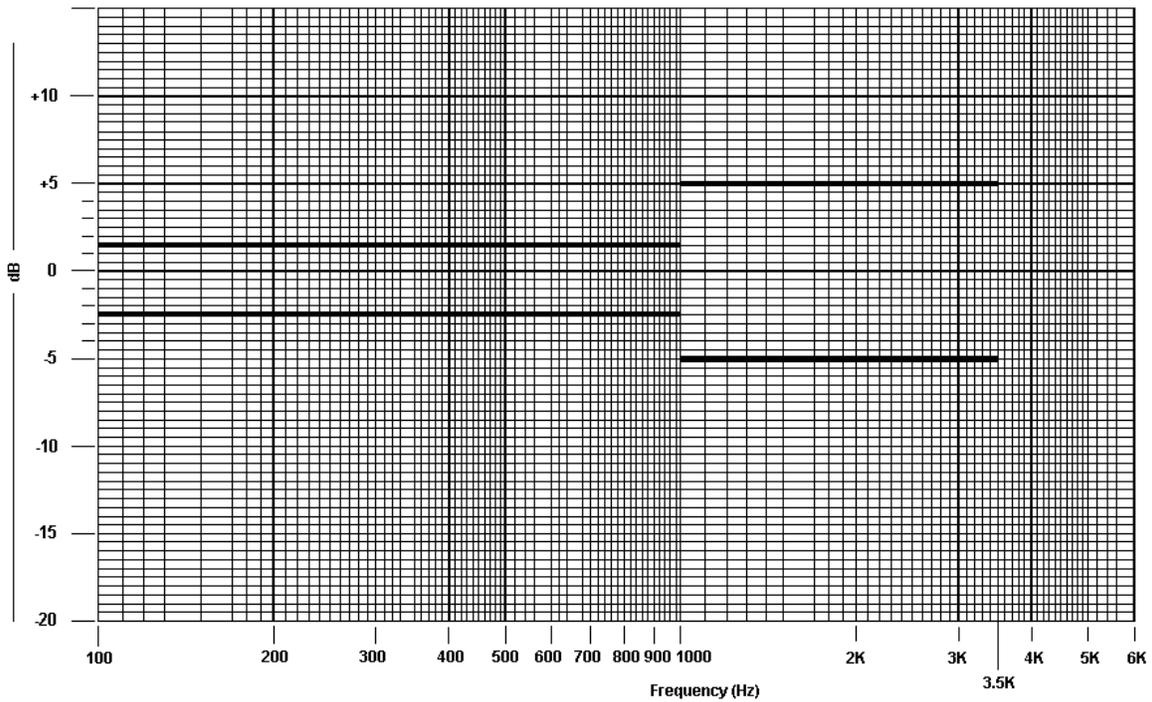


FIGURE 2. Frequency response envelope for earphone M25670/5-01.

FIGURE 2. FREQUENCY RESPONSE KEY BREAK POINTS DIGITIZED.					
FREQUENCY POINTS	100 Hz	500 Hz	1,000 Hz	2,000 Hz	3,500 Hz
UPPER LIMIT dB	+1.50	+1.50	+5.00	+5.00	+5.00
LOWER LIMIT dB	-2.50	-2.50	-5.00	-5.00	-5.00

REQUIREMENTS

- Dimensions and configuration: See figure 1.
- Weight: 1.35 ounces, maximum.
- Color: The back case shall be dull black, or an equivalent low-contrast dark color.
- Breather: If the earphone element includes a breather hole in the back case, either as a hydroscopic breather, or a pressure equalization port, it shall be no more than 0.125 inch in diameter.
- Stray magnetic field: 5 degrees maximum compass deflection, measured at a distance of 12 inches.
- Frequency response range: 100 to 3,500 Hertz.

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Frequency response:	Within the limits specified on figure 2.
Sensitivity:	The acoustic output of the earphone shall be not less than 105 dB above a reference level of 20 micropascals { μ PA} (0.0002 dyne/cm^2), when 1 milliwatt rms power at 1 KHz is applied to the earphone terminals.
Impedance:	1,000 ohms \pm 15%.
Harmonic distortion:	Five (5) percent (%) maximum at any frequency between 100 to 3.5 KHz.
Immersion:	The earphone element shall meet the frequency response requirements following immersion in three feet of water for 2 hours.
Marking:	Marking shall be in accordance with MIL-PRF-25670, with the addition that the part shall have the term "IMMERSIBLE" displayed on the back cover (location optional).

Intended use. This earphone element M25670/5-01 is a 1,000-Ohm impedance, lightweight transducer used in Headset-Microphone Kit MK-1697()/G, which is used in armored vehicle crewman helmets. The MIL-PRF-25670/5 is also referenced by:

- a. MIL-DTL-83511, MIL-DTL-83511/1, Material Number (MN) 5965-01-182-3384 and
- b. MIL-DTL-83511/4, MN 5965-01-148-3396.

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.

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

FF-S-92
MIL-DTL-83511
MIL-DTL-83511/1
MIL-DTL-83511/4

CONCLUDING MATERIAL

Custodians:
Army - CR
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5965-2013-018)

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>.