

INCH-POUND

MIL-PRF-87819A(USAF)
AMENDMENT 1
8 August 1997

PERFORMANCE SPECIFICATION

HEADSET-MICROPHONE, (HEARING PROTECTIVE TYPE, HIGH AND
MODERATE AMBIENT NOISE LEVELS), GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-PRF-87819A(USAF), dated 30 January 1997, and is approved for use by the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

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Paragraph 3.4.2.1, append the following. "3.4.2.1.1 Boom interface to earcup. When specified (see 3.1), the boom shall be attached to the left earcup using a fingers-adjustable screw-and-nut assembly. The assembly shall be grooved to allow the wire boom to seat securely when tightened. The boom nut assembly shall completely prevent the boom from slipping from its tightened position during use."

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Paragraph 3.4.8. Replace the second sentence with the following. It shall not obstruct the auditory path of the transducer, and shall only be permanently attached to the earphone element if the manufacturer demonstrates that such attachment increases the signal-to-noise ratio of the headset.

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Paragraph 3.4.8. Replace the last sentence with the following. Fillers shall allow clearance of at least 0.750 in from the uncompressed face of the earcushion, unless otherwise specified (see 3.1).

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Paragraph 3.6, replace second sentence with the following. "Location shall not interfere with replacement of the U-174/U connector, as specified (see 3.1), and shall consist of the following:"

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Paragraph 4.6.1.4.1, Replace the last sentence with the following. The attenuation conformance test shall be applied to 3 of the 6 group C samples, and shall be performed only on alternating 6-month test cycles, such that attenuation conformance is verified one time every 12 months on 3 headset products.

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Paragraph 4.7.3.1, after the last sentence, add the following. Following the qualification attenuation tests, the same product shall be subjected to the flat plate conformance attenuation testing of 4.7.3.2. These results will be retained by the qualification activity for a baseline comparison to subsequent qualification retention test results (see 3.5.2.2).

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Paragraph 4.7.3.2, Delete the first sentence.

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Paragraph 4.7.9, Replace with the following. The headset shall be tested in accordance with method 502 of MIL-STD-810 (Low Temperature), procedures 1 (Storage) and 2 (Operating). Storage parameters shall be -70° F for 24 hours total, and Operating parameters shall be -65° F constant for 2 hours. In addition, the product shall be tested against method 501 of MIL-STD-810 (High Temperature), procedures 1 (Storage) and 2 (Operation), where the Storage parameters are +140° F for 24 hours total and the Operating parameters are +120° F Constant for 6 hours. Tests shall be performed in sequence on the same parts, with no more than 24 hours time-lapse between the tests, a period equivalent to that required to transport the product from one geographical climate extreme to the other. Within 1 hour of test completion, the acoustic quality test shall be performed (4.7.2), as well as the visual and mechanical examination (4.7.1).

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Paragraph 4.7.10, Replace with the following. The headset shall be tested in accordance with method 503 of MIL-STD-810 (Temperature Shock). The test shall be repeated two times, in order to address product use in very cold climates as well as in very hot climates. The first test shall apply temperature extremes of -70° F and +70° F, with a time in each of 30 minutes and no appreciable delay between temperature conditions, to simulate the duties around a heated shack on an arctic flight line. The second test shall apply temperature extremes of +140° F and +68° F, with a time in each of 30 minutes and no appreciable delay between temperature conditions. Within 1 hour of each test completion, the acoustic quality test shall be performed (4.7.2), as well as the visual and mechanical examination (4.7.1).

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Paragraph 4.7.13. Replace with the following. The headset pressure shall be tested by use of an apparatus equivalent to the pressure-measuring device shown in figure 3. Per the illustration in figure 2, the "A" dimension of the headset shall be adjusted to 6.10 in, and the "B" dimension adjusted to represent an approximate midpoint of the headband extension range. The pressure shall then be measured from the strain gauge.

CONCLUDING MATERIAL

Custodian:
Air Force - 85

Preparing Activity:
Air Force - 85

Review activities:
Air Force - 99
DLA - CC

(Project 5965-0265)