

PERFORMANCE SPECIFICATION SHEET

MICROPHONE ASSEMBLY, M-169A/AIC

This amendment forms part of MIL-PRF-26542/12B, dated 11 February 1999,
 And is approved for use by all Departments and Agencies of the Department of Defense.

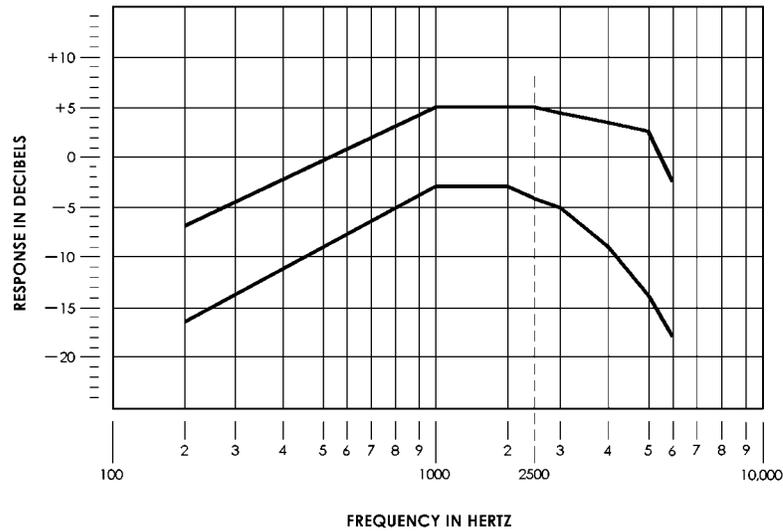
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Figure 2: Add the following table:

| Frequency points (Hz) | 200 Hz | 300 Hz | 360 Hz | 1,000 Hz | 4,000 Hz | 5,000 Hz | 6,000 Hz |
|-----------------------|--------|---------------|--------------|--------------|----------|---------------|----------|
| Upper limits (dB) | -2.0 | 2.0 | (2.21) 1/ | (3.40) 1/ | 5.0 | 5.0 | -2.00 |
| Lower limits (dB) | -12.5 | (-8.01) 1/ | -6.0 | -2.0 | -2.0 | (-9.17) 1/ | -15.0 |

1/ dB limits between key break point are calculated.

Figure 3: Delete and substitute:



| Frequency points (Hz) | 200 Hz | 1,000 Hz | 2,000 Hz | 2,500 Hz | 3,000 Hz | 4,000 Hz | 5,000 Hz | 6,000 Hz |
|-----------------------|--------|----------|----------|---------------|--------------|--------------|----------------|----------|
| Upper limits (dB) | -7.00 | 5.00 | 5.00 | 5.00 | (4.34) 1/ | (3.31) 1/ | 2.50 | -2.50 |
| Lower limits (dB) | -16.50 | -3.00 | -3.00 | (-4.10) 1/ | -5.00 | -9.00 | (-13.96) 1/ | -18.00 |

1/ dB limits between key break point are calculated.

FIGURE 2. Frequency response envelope for microphone element M-101/AIC ground level.

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Frequency response: Add the following:

The response curves generated shall be on the same scale as shown in figures 2 & 3. The response curve shall not exceed the upper and lower limit curves of the stationary Frequency Response Envelope, within the frequency ranges identified in the appropriate chart (see figures 2 and 3).

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Intended use: Delete and substitute:

Intended use. : Microphone element M-169A/AIC is a noise canceling dynamic moving coil microphone element designed for use in an oxygen mask or pressure-type oxygen helmet, at altitudes where the use of an oxygen helmet is required. The microphone element is intended for use with both the MBU-12 and MBU-20/P (Combat Edge) oxygen masks, to provide communication under the noise conditions encountered in military aircraft.

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Table 1: Delete and substitute:

TABLE I. Parameter applicability.

| Inspection | Qualification | Group "A" | Group "B" | Group "C" |
|------------------------------------|---------------|--------------|--------------|--------------|
| <u>Group I</u> | | | | |
| Visual and mechanical inspection | X | X | | |
| Sensitivity at ground level | X | X | | |
| Sensitivity at altitude | X | | | |
| Frequency response at ground level | X | X | | |
| Frequency response at altitude | X | | | |
| Impedance | X | X | | |
| Noise cancellation characteristic | X | | | |
| Effect of external magnetic field | X | | | |
| Stray magnetic field | X | | | |
| Linearity | X | | | |
| Talk-out | X | X | | |
| Dielectric withstanding voltage | X | | | |
| Signal-to-noise | X | | X | |
| Distortion | X | | X | |
| Interchangeability | X | | X | |
| <u>Group II</u> | | | | |
| Thermal shock | X | | | X |
| Humidity | X | | | X |
| Drop | X | | | X |
| Pressure equalization | X | | | X |
| Explosive decompression | X | | | X |
| Salt fog | X | | | X |
| <u>Group III</u> | | | | |
| Vibration | X | | | X |
| Bounce | X | | | X |
| Altitude | X | | | X |
| Moisture barrier seal | N/A | | | N/A |
| Immersion | N/A | | | N/A |
| <u>Group IV</u> | | | | |
| Fungus | X | | | |
| <u>Group V</u> | | | | |
| Gun blast | N/A | | | |
| Microphone leakage | X | | | |

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CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Review activities:

Army - AR, AT, AV, CR4
Navy - AS, OS
Air Force - 99

Preparing activity:
DLA - CC

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