

M162/AIC

Linear Microphone

Ruggedized Amplified Electret Noise Cancelling Microphone Technology

Offering a shielded enclosure which provides high EMI and RFI immunity, this impact resistant, nylon reinforced shell, capsule microphone mounts to standard military wire booms.



KEY FEATURES

Communication Intelligibility

- Available as a capsule
- Standard military wire boom mounting permits proper positioning of the microphone element in front of the user's mouth from either the left- or right-hand side which is critical for proper operation of high performance, noise cancelling microphones.

Interfaces

- With DADS, VIS and JSTARS military intercoms

Industries Served

- Aircraft Maintainers
- Aerospace
- Military

Compatibility

The microphones are reverse polarity operation protected and compatible with many:

- Gentex Helmets
- Military, General Aviation Radios and Intercom Systems (ICS)

Compliance

- MIL-M-49199A
- MIL-STD-810G environmental
- MIL-STD-461F electromagnetic interference
- MIL-STD-130N identification marking

Contact Us

Gentex Corporation is dedicated to enhancing personal protection and situational awareness for global defense forces, emergency responders, and industrial personnel operating in high performance environments. To learn more about the Gentex M162/AIC Linear Microphone, contact Customer Service at sales@gentexcorp.com.

M162/AIC Linear Microphone

SPECIFICATIONS

Sensitivity @1 kHz, 94 dB SPL input: -35 dBV +/- 3 dB
 0dB=1 Vrms/Pa @ 1/4" (94 dB SPL @ 1/4")
 Test Voltage = 10V, R_s=150 Ω

Frequency Response: 350 Hz to 8 kHz

Distortion: Less than 1% THD at 110 dB SPL and less than 5% THD at 125dB SPL across specified frequency response

Rated Load Resistance: Nominal 150 Ω

Electrical Impedance: When connected to a 150 Ω load impedance the output voltage shall remain 18 mV +/- 3 dB between 400 and 6000Hz

Rated Supply Voltage: 8-12 VDC

Rated Current Drain: 7 mA T_a=25°C

Color: semigloss black

Environmental: Tested per MIL-STD-810G

Temperature: -40°C to + 70°C Operating and Storage

Humidity: 0% – 100% relative humidity non-condensing

Immersion: 1 meter

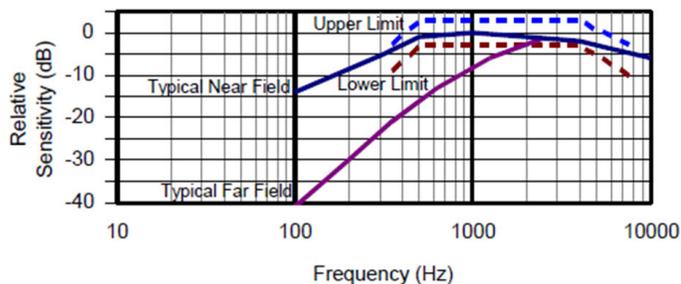
Dust: 1750 ft/min @ 0.3 g/ft³

Far Field Crossover: 2500 Hz

Normalized Far Field Response: 6dB/octave roll-off (min)

Noise-Immunity Characteristic (graphed below)

FREQUENCY RESPONSE



M162/AIC Selection Guide	
N100717-00	Microphone Capsule

Capsule Dimensions:

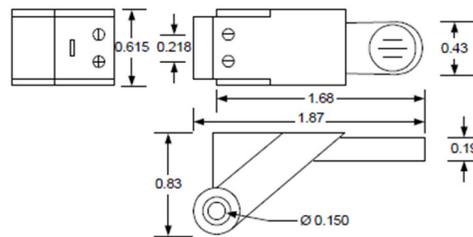
1.87 x 0.615 x 0.83 inches (47.5 x 15.6 x 21.1 mm)

Capsule Weight: 0.28 ounces (8 grams)

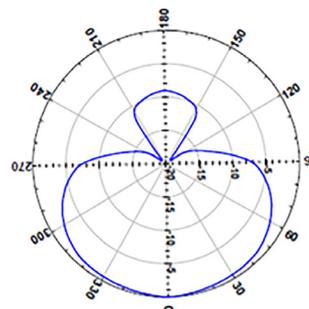
Capsule Termination Accepts:

MP103 plug (3 wire)

U-173/U (2- wire)



ANGULAR RESPONSE @ 1000 Hz



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