GENTEX



Rugged Flexboom Dynamic Microphone

Passive Noise Cancellation and Rugged Flexibility

Featuring a ruggedized flexboom, this dynamic microphone provides improved speech intelligibility through the introduction of passive noise-cancelling technology. This microphone was developed as a direct replacement for the M-87/A1C and other Gentex-manufactured 5 ohm microphones.





KEY FEATURES

Maximum Performance

Third-party testing has demonstrated* the Gentex Rugged Flexboom significantly outperforms the legacy M-87/A1C, providing low distortion and excellent passive noise cancellation performance which translates into high speech intelligibility (greater than 80% MRT) in noise environments up to 115 dBA.



The ruggedized gooseneck tubing with integrated mount ensures proper microphone positioning in high wind, while also providing ease of positional flexibility when the microphone is needed. The mount enables installation on either the left or right hand side of the helmet, no special tools needed.

Seamless Integration

The Gentex rugged dynamic microphone is retrofittable to upgrade legacy 50hm microphones. Use existing knurled nut hardware or upgrade to the flush mount hardware for weight savings.



Knurled nut wire boom mounting hardware



Flush mounting boom hardware

COMPATIBILITY COMPLIANCE

The Gentex Rugged Flexboom Dynamic Microphone is compatible with:

- Gentex Rotary Wing Helmets: HGU-56/P and Alpha
- Gentex Fixed Wing Helmets: HGU-55/P

Compliance with parts of the following:

- MIL-STD-810G, with Change 1 Environmental
- MIL-PRF-26542F General Specifications for Dynamic Microphones

*Testing was performed by The US Air Force Research Laboratory (AFRL) in representative rotary-wing noise environments.

Contact Us

Gentex is committed to designing and manufacturing advanced performance capabilities for worldwide aircrew personnel. For more information, please contact Gentex at sales@gentexcorp.com or one of our authorized distributors through www.gentexcorp.com. Like us at facebook.com/Gentexcorp or follow us on Twitter @Gentex_Corp. The Gentex Rugged Flexboom Dynamic Microphone is controlled for export by the U.S. Export Administration Regulations (EAR) 15 CFR 730-774. The export of this product and related technical information requires prior authorization from the U.S. Government.

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SPECIFICATIONS

Frequency Response: 350 Hz to 6300 Hz

Sensitivity @1 kHz, 94 dB SPL input: -86 dBV +/- 5dB Distortion: Less than 5 % THD at 114 dB SPL across specified

frequency response

Speech Intelligibility:

Greater than 90% MRT tested at 110 dBA SPL Greater than 80% MRT tested at 120 dBA SPL

Rated Load Resistance: $5~\Omega$

Electrical Impedance: 5 Ω +/- 20% at 20°C +/- 5°C at 1kHz

Color: Lusterless black

Connector Type: Integrated U-173/U
Operating Altitude Rating: @ 18,000ft

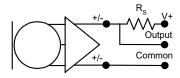
Sensitivity within +/- 6 dB of ground level

Frequency Response within +/- 3 dB of ground level **Boom Mechanical Wind Resistance:** Greater than 100 knots

Weight: Less than 50g

Environmental: Tested per MIL-STD-810G
Temperature: -40°C to + 71°C Operating
Background Noise Cancellation: Below 1500 Hz

TEST CIRCUIT

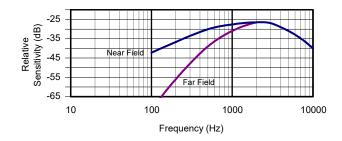


DIMENSIONS

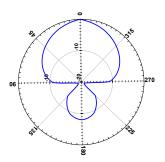




Near Field (Voice)/Far Field (Background Noise) Crossover



Polar Response @ 1KHz



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