

Bulkhead Dynamic Mask Microphone



Small Profile, Maximum Performance

The Gentex Bulkhead Dynamic Mask Microphone was developed for use in the Gentex Low Profile Particulate Respirator (LPPR). Its optimal design features a small profile and positional flexibility when used with the LPPR.

KEY FEATURES

Maximum Performance

The fully encapsulated mask microphone improves communications clarity by reducing wind noise associated with boom microphones. The Gentex dynamic bulkhead microphone provides low distortion and excellent passive noise cancellation performance which translates into higher speech intelligibility (greater than 80% MRT) in noise environments up to 115 dBA.

Seamless Integration

The Gentex Bulkhead Dynamic Mask Microphone is retrofittable and can replace the microphone in an existing LPPR or SOTR half mask.

Optimal Design

The Gentex bulkhead mask microphone has a small profile, maximizing the comfort and performance for pilots and aircrew.



COMPATIBILITY

The Gentex Bulkhead Dynamic Mask Microphone is compatible with:

- Gentex Low Profile Particulate Respirator
- Ops-Core Special Operations Tactical Respirator

COMPLIANCE

Compliance with parts of the following:

- MIL-STD-810G, w Change 1 Environmental
- MIL-STD-461G Control of Electromagnetic Interference (EMI)
- DIN EN61000-4-2 Electromagnetic Compatibility (EMC)
- MIL-PRF-26542F General Specifications for Dynamic Microphones

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](https://www.facebook.com/Gentexcorp) or follow us on Twitter @Gentex_Corp. The Gentex Bulkhead Dynamic Mask 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: 300Hz - 8000Hz

Sensitivity @1 kHz, 94 dB SPL input:

(N101120-01) 5 Ω sensitivity -77.0 +/- 5 dBV

(N101120-00) 150 Ω sensitivity -58.0 +/- 5 dBV

Distortion: Less than 5% THD at 114 dB SPL across specified frequency response

Speech Intelligibility: Greater than 80% at 115 dBA SPL

Rated Load Resistance: 5 Ω or 150 Ω depending on model

Electrical Impedance @1 kHz:

(N101120-01) 5 Ω -20/+40%

(N101120-00) 150 Ω +/- 20%

Color: Lusterless black

Connector Type: Integrated U-172/U type socket

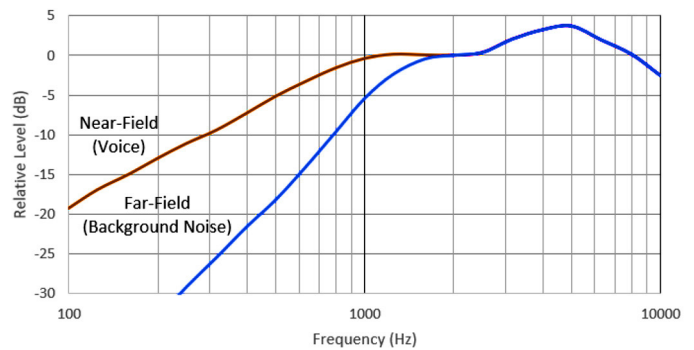
Weight: Less than 12 g

Environmental: Tested per MIL-STD-810G

Temperature: -40°C to + 55°C Operating

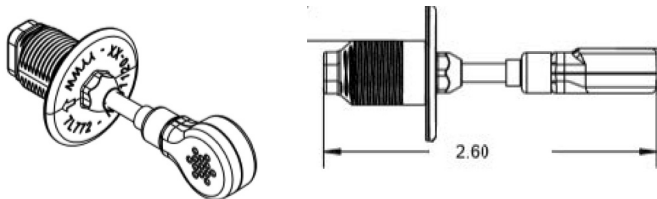
Background Noise Cancellation: 1500 Hz

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

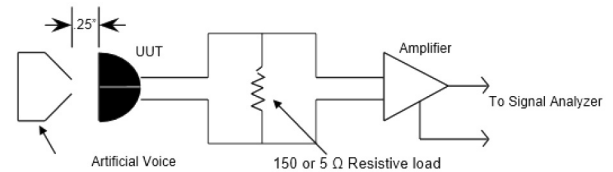


*Tested independent of a mask assembly

DIMENSIONS



TEST CIRCUIT



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