4 INCH MIL-SPEC, VOICE COMMUNICATION SPEAKER

PART #: LS445/U

This 4-inch mil-spec voice communication speaker is an exceptional audio component engineered to meet the demanding requirements of military communications.

This speaker is crafted from die-cast aluminum and conforms to the rigorous MIL-DTL-12606 standards. The phenolic-impregnated cone and dust cap ensure durability in the toughest conditions, while the meta-aramid laminate voice coil form can withstand extreme heat. The separate rubber gasket and steel front screen enhance the speaker's robustness.

With its exceptional design, the LS445/U speaker is engineered to perform excellently in the harshest environments, including the jolts of a combat tank and the persistent vibrations aboard a C-5M Super Galaxy.

- Precisely engineered to meet military communication requirements
- Die-cast aluminum construction for superior durability
- MIL-DTL-12606 standards compliant
- Phenolic-impregnated cone and dust cap for added robustness
- Meta-aramid laminate voice coil form withstands extreme heat
- Separate rubber gasket and steel front screen included for added protection
- Excellent performance in harsh environments

MISCO engineers use the world's most sophisticated loudspeaker measurement systems, including the Klippel Analyzer, to maximize and confirm the speaker's design and the Klippel QC module to ensure perfect unit-to-unit consistency and reliability.



Primary Specifications

Size, Nominal (inch & mm)	4" (100 mm)
Rated Impedance (Ω)	8
Sensitivity (dB SPL) [1]	91
Frequency Range (Hz)	300 - 7, 000
Resonant Frequency (Fs) (Hz) +/- 15%	590

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More Specifications

Application	Military, Outdoor , Voice Communications
RoHS Compliant	No
DC Resistance (Re) (Ω)	7.0
Program Power (W)	2

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.0
Voice Coil Inductance (Le) (mH)	0
Resonant Frequency (Fs) (Hz) +/- 15%	590
Total Q Factor (Qts)	0.83

Material Descriptions

Basket Type	Cast aluminum
Terminal Size (mm)	0.152" x 0.025"
Voice Coil Diameter (mm)	0.73" / 18.5mm
Voice Coil Wire Material	Copper
Voice Coil Former Material	Meta-aramid laminate
Magnet Material	Barium ferrite
Magnet Weight (g)	156
Cone Body Material	Cloth impregnated with phenolic resin
Cone Surround Material	Cloth impregnated with phenolic resin
Spider Material	Cloth impregnated with phenolic resin
Dust Cap Material	Cloth impregnated with phenolic resin
Net Weight (kg)	0.56

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