

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

Crafted from die-cast aluminum, this speaker carries an NSN number 5965-008-923665 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

<b>Size, Nominal (inch &amp; mm)</b>	4" (100 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Sensitivity (dB SPL) <sup>1</sup></b>	91
<b>Frequency Range (Hz)</b>	300 - 7,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	590

## More Specifications

<b>Application</b>	Military, Outdoor , Voice Communications
<b>RoHS Compliant</b>	No
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.0
<b>Program Power (W)</b>	2

## Small Signal Parameters

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

## Material Descriptions

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

