

291-16A HIGH-FREQUENCY DRIVER LOUDSPEAKER



DESCRIPTION

The ALTEC 291-16A High-Frequency Driver Loudspeaker is designed for use in high-level sound systems of the highest quality. It may be used with ALTEC multicellular horns or sectoral horns and provides a smooth response from 500 Hz to 13 kHz. This wide range, when used in conjunction with ALTEC low-frequency loud-

speakers provides full high fidelity reproduction for the largest theatre or auditorium. High efficiency and smooth reproduction characteristics to the upper limits of human hearing make the 291-16A an excellent choice for all large sound systems where quality, full range and faithful reproduction are a requisite.

SPECIFICATIONS

Power Rating: 50 watts (based on continuous operation with pink noise 500 Hz to 15 kHz)

Flux Density: 18,500 gauss

Frequency Response: 500 Hz to 15 kHz

Dimensions: 6½" (16.51 cm) Dia.
4⅞" (12.38 cm) Depth

| Pressure Sensitivity (based on 1W input of pink noise from 500 Hz to 3 kHz, measured 4' from mouth of reference horn): | Horn | Pressure Sensitivity |
|--|-------------|-----------------------------|
| | 203B | 111.5 dB SPL |
| | 803B | 110.5 dB SPL |
| | 1003B | 108.0 dB SPL |
| | 311-60 | 109.5 dB SPL |
| | 311-90 | 108.0 dB SPL |
| | 329A | 108.0 dB SPL |
| | 511E | 107.0 dB SPL |

Weight: 20 pounds (9.09 kg)

Finish: Gray

Accessories (must be ordered separately): ALTEC 30546—45° Weatherproof Throat Adapter
Any ALTEC 300 or 500 Hz multicellular horn, or ALTEC 311-60, 311-90, 329A or 511E sectoral horns
ALTEC N-500F Dividing Network
ALTEC 70.7V transformers

Impedance: 16 ohms nominal (12 ohms minimum)

Voice Coil Diameter: 2.8"

Application: HF Driver Loudspeaker for use with wide-range 2-way systems

Protection: N-500F Dividing Network and any ALTEC 300 or 500 Hz multicellular horn or sectoral horn

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The high-frequency driver loudspeaker shall meet the following criteria. A rugged diaphragm shall be coupled to a 2.8" diameter voice coil of edgewound aluminum ribbon. Flux density, at least 18,500 gauss. Pole piece, machined phasing plug with 3 exponential acoustic slots. Diaphragm and voice coil assembly, field replaceable without requiring special tools or skills. Power rating, 50 watts pink noise. Frequency response, from 500 Hz to 13 kHz nominal. Impedance, 16 ohms. Pressure sensitivity when measured on axis 4' from mouth of horn with 1 watt input of pink noise from 500 Hz to 3000 Hz (Ref.: 0.0002 dyne/cm²):

| Horn | Pressure Sensitivity |
|-------------|-----------------------------|
| 203B | 111.5 dB SPL |
| 803B | 110.5 dB SPL |
| 1003B | 108.0 dB SPL |
| 311-60 | 109.5 dB SPL |
| 311-90 | 108.0 dB SPL |
| 329A | 108.0 dB SPL |
| 511E | 107.0 dB SPL |

The high-frequency driver loudspeaker shall be the ALTEC Model 291-16A.

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