

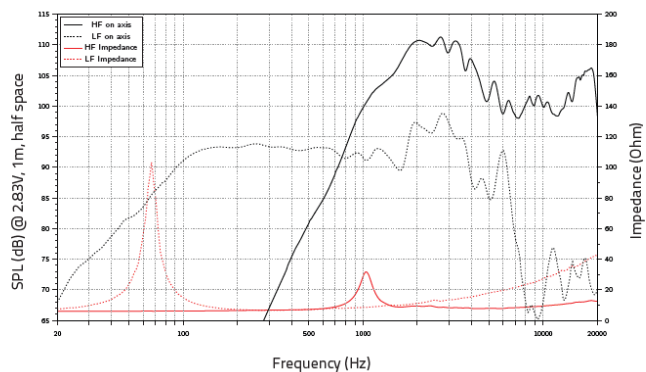
CSF102.50K

Lavoce

10" COAXIAL

FERRITE COMMON HF/LF MAGNET STEEL BASKET DRIVER

- 2.5 INCH LF EDGEWOUND CCA VOICE COIL
- 1.7 INCH HF EDGEWOUND CCA VOICE COIL
- 96 dB/SPL SENSITIVITY
- 600 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR, PHASEPLUG AND DIAPHRAGM
- 65 - 20000 Hz FREQUENCY RANGE
- 70° NOMINAL COVERAGE
- POLYIMIDE HF DIAPHRAGM
- DOUBLE ALUMINIUM DEMODULATING RINGS
- COMPACT AND LIGHTWEIGHT DESIGN



GENERAL SPECIFICATIONS LF

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 ohm
Minimum Impedance	6.6 ohm
Program Power	600 W Program power is defined as 3 dB greater than AES Power.
AES Power Rating	300 W Tested in free air for two hours using a continuous: LF: band-limited pink noise signal as per AES 2-1984 Rev. 2003. HF:band-limited (1600-20000 Hz, 12dB/oct.) pink noise signal as per AES 2-1984 Rev. 2003.
Sensitivity	96 dB LF: From T/S parameters, measured with Klippel DA LPM module. HF: Measured on axis at 2.83V, 1m, SPL averaged in the frequency range 1000 ÷ 20000 Hz.
Frequency Range	65 ÷ 4000 Hz
Voice Coil Diameter	65 mm (2.5 in)
Chassis Material	STEEL
Magnet Material	FERRITE
Magnet Dimensions OD X ID X H	175 x 85 x 22 mm (6.88 x 3.34 x 0.87 in)
Coil Material	EDGEWOUND CCA
Former Material	GLASS FIBER
Cone Material	WATER PROOF TREATED PAPER
Surround Material	POLYCOTTON
Flux Density	1.07 T
Xmax	6.25 mm (0.25 in) The Xmax is calculated as: (Hvc - Hg)/2+ Hg/4. Hvc is the voice coil height and Hg the gap height.
Xmech	10.25 mm (0.4 in) The Xmech is calculated as: (Hvc - Hg)/2 +(Hg-2). Hvc is the voice coil height and Hg the gap height.
Gap Height	8 mm (0.31 in)
Voice Coil Winding Height	16.6 mm (0.65 in)
Driver Displacement Volume	1.9 l (0.07 ft³)
Recommended Enclosure	35 l (1.24 ft³)
Recommended Tuning	65 Hz

Recommended Crossover	- High pass filter with slope 12dB/oct. or higher.
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GENERAL SPECIFICATIONS HF

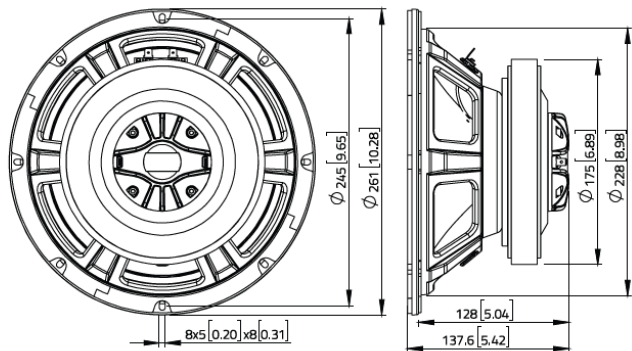
HF Exit	25.4 mm (1 in)
Nominal Impedance	8 ohm
Minimum Impedance	7.6 ohm
Program Power	120 W Program power is defined as 3 dB greater than AES Power.
AES Power Rating	60 W Tested in free air for two hours using a continuous: LF: band-limited pink noise signal as per AES 2-1984 Rev. 2003. HF:band-limited (1600-20000 Hz, 12dB/oct.) pink noise signal as per AES 2-1984 Rev. 2003.
Sensitivity	105 dB LF: From T/S parameters, measured with Klippel DA LPM module. HF: Measured on axis at 2.83V, 1m, SPL averaged in the frequency range 1000 ÷ 20000 Hz.
Frequency Range	1000 ÷ 20000 Hz
Voice Coil Diameter	44.4 mm (1.7 in)
Coil Material	EDGEWOUND CCA
Former Material	KAPTON
HF Dome Material	POLYIMIDE
Surround Material	POLYIMIDE
Flux Density	1.75 T
Recommended Crossover	1600 Hz High pass filter with slope 12dB/oct. or higher.

SMALL SIGNAL PARAMETERS LF

Thiele-Small parameters are measured after preconditioning: a) at 20°C- 22°C, 50% humidity for 2 hours; b) by Klippel LSI measurement.

DC Resistance (Re)	5.8 ohm
Diaphragm Area (Sd)	350 cm² (54.25 in²)
Resonance Frequency (Fs)	65 Hz
Moving Mass (Mms)	34.2 g (1.21 oz)
Compliance (Cms)	0.17 mm/N
Force Factor (BxL)	12.9 N/A
Mechanical Q-Factor (Qms)	7.39
Electrical Q Factor (Qes)	0.48
Total Q-Factor (Qts)	0.45
Equivalent Air Volume (Vas)	29.93 l (1.06 ft³)
Voice Coil Inductance (Le)	0.46 mH
Reference Efficiency (Eta 0)	1.68 %
Efficiency Bandwidth Product (EBP)	135 Hz

DIMENSIONS



SHIPPING INFORMATION

Net Weight	4.9 kg (10.9 lb)
Multipack Quantity	1
Multipack size W x D x H	304 mm x 281 mm x 176 mm (12 in x 11.1 in x 6.9 in)
Multipack Weight	5.7 kg (12.57 lb)

