

# CSF082.00K

Lavoce

## 8" COAXIAL

FERRITE COMMON HF\LF MAGNET  
STEEL BASKET DRIVER



- 2 INCH LF EDGEWOUND CCA VOICE COIL
- 1.4 INCH HF CCAW VOICE COIL
- 96 dB/SPL SENSITIVITY
- 400 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR, PHASEPLUG AND DIAPHRAGM
- TRIPLE ROLL SURROUND
- 75 - 20000 Hz FREQUENCY RANGE
- 100° NOMINAL COVERAGE
- POLYIMIDE HF DIAPHRAGM
- DOUBLE ALUMINIUM DEMODULATING RINGS
- COMPACT AND LIGHTWEIGHT DESIGN
- ALTERNATIVE IMPEDANCE: 4 OHM

### GENERAL SPECIFICATIONS

	LF	HF
LF Nominal diameter / HF Exit	mm (in.) 200 (8)	25.4 (1)
Nominal impedance	Ω 8	8
Minimum impedance	Ω 6,9	7,5
Program power (1)	W 400	70
AES Power rating (2)	W 200	35
Sensitivity (3)	dB 96	103,5
Frequency range	Hz 75 ÷ 5500	1500 ÷ 20000
Voice coil diameter	mm (in.) 51 (2)	35 (1.4)
Chassis material	Steel	
Magnet material	Ferrite	
Magnet dimensions	140 x 62 x 22	
OD x ID x h	(5.51 x 2.44 x 0.87)	
Coil material	Edgewound CCA	CCA
Former material	Glass Fiber	Kapton
LF Cone / HF Dome material	Waterproof Treated Paper	Polyimide
Surround material	Polycotton	Polyimide
Flux density	T 1	1,5
Recommended crossover (4)	Hz -	2200
Xmax (5)	mm (in.) 5 (0.2)	-
Xmech (6)	mm (in.) 9 (0.35)	-
Gap height	mm (in.) 8 (0.31)	-
Voice coil winding height	mm (in.) 14 (0.55)	-
Driver displacement volume	l (ft³) 1,1 (0.04)	-
Recommended enclosure	l (ft³) 14,5 (0.51)	-
Recommended tuning	Hz 90	-

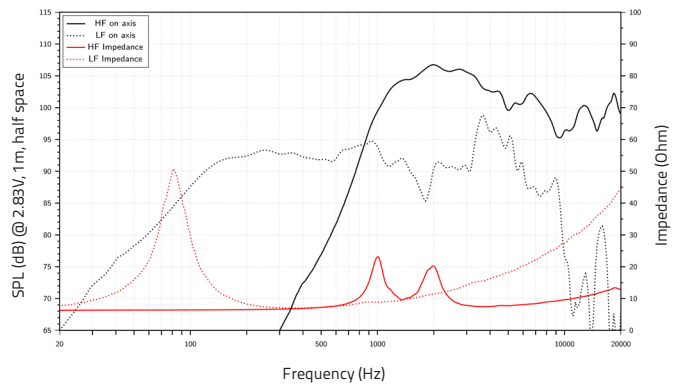
### LF SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	5,9
Resonance frequency	Fs	Hz	81
Moving mass	Mms	g (oz)	17,9 (0.63)
Compliance	Cms	mm/N	0,216
Force factor	BxL	N/A	10,99
Mechanical Q-factor	Qms		3,48
Electrical Q-factor	Qes		0,45
Total Q-factor	Qts		0,4
Equivalent air volume	Vas	l (ft³)	14,81 (0.52)
Voice coil Inductance	Le	mH	0,46
Diaphragm area	Sd	cm² (in.²)	220 (34.1)
Reference efficiency	Eta 0	%	1,68
Efficiency bandwidth product	EBP	Hz	180

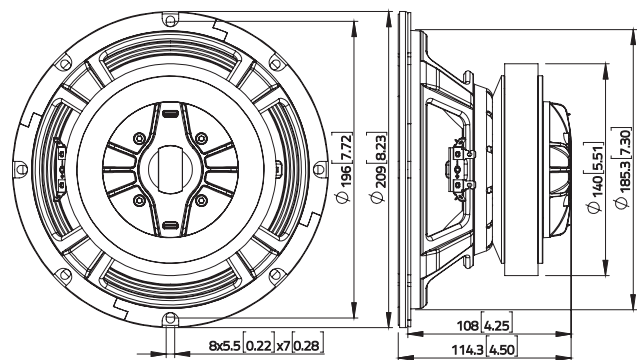
### SHIPPING INFORMATION

Net weight	kg (lb.)	3 (6.6)
Multipack size (1)	mm	244 x 235 x 165
W x D x H	(in.)	(9.6 x 9.2 x 6.5)
Multipack weight	kg (lb.)	3,5 (7.7)

### FREQUENCY RESPONSE AND IMPEDANCE



### DIMENSIONS mm (in.)



- (1) Program power is defined as 3 dB greater than AES Power.
- (2) 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 (1000-20000 Hz, 12dB/oct.) pink noise signal as per AES 2-1984 Rev. 2003.
- (3) 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 1500 ÷ 20000 Hz.
- (4) High pass filter with slope 12dB/oct. or higher.
- (5) The Xmax is calculated as:  $(Hvc - Hg) / 2 + Hg / 4$ . Hvc is the voice coil height and Hg the gap height.
- (6) The Xmech is calculated as:  $(Hvc - Hg) / 2 - (Hg - 2)$ . Hvc is the voice coil height and Hg the gap height.
- (7) Thiele-Small parameters are measured after preconditioning: a) at 20°C - 22°C, 50% humidity for 2 hours; b) by Klippel LSI measurement.

All specifications subject to change without notice\_H,a

