

# CPF082.00K

Lavoce

## 8" COAXIAL

FERRITE COMMON HF\LF MAGNET

ABS BASKET DRIVER

## PRELIMINARY



- 2 INCH LF EDGEWOUND CCA VOICE COIL
- 1.4 INCH HF CCAW VOICE COIL
- 95,5 dB/SPL SENSITIVITY
- 400 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR, PHASEPLUG AND DIAPHRAGM
- 90 - 20000 Hz FREQUENCY RANGE
- 100° NOMINAL COVERAGE
- POLYIMIDE HF DIAPHRAGM
- DOUBLE ALUMINIUM DEMODULATING RINGS
- COMPACT AND LIGHTWEIGHT DESIGN
- WATERPROOF ACOUSTICALLY TRANSPARENT DUST CAP
- SUITABLE FOR OUTDOOR LOUDSPEAKER APPLICATIONS

### GENERAL SPECIFICATIONS

	LF	HF
LF Nominal diameter / HF Exit	mm (in.) 200 (8)	25,4 (1)
Nominal impedance	Ω 4	8
Minimum impedance	Ω 3,7	7,5
Program power (1)	W 400	70
AES Power rating (2)	W 200	35
Sensitivity (3)	dB 95,5	103,5
Frequency range	Hz 90 ÷ 5000	1500 ÷ 20000
Voice coil diameter	mm (in.) 51 (2)	35 (1.4)
Chassis material	ABS	
Magnet material	Ferrite	
Magnet dimensions	140 x 62 x 22	
OD x ID x h	mm (in.) (5,51 x 2,44 x 0,87)	
Coil material	Edgewound CCA	CCA
Former material	Glass Fiber	Kapton
LF Cone / HF Dome material	WP Treated Paper + WP Front Side	Polyimide
Surround material	Polycotton	Polyimide
Flux density	T 0,9	1,5
Recommended crossover (4)	Hz -	2200
Xmax (5)	mm (in.) 3,3 (0.13)	-
Xmech (6)	mm (in.) 7,3 (0.29)	-
Gap height	mm (in.) 8 (0.31)	-
Voice coil winding height	mm (in.) 10,7 (0.42)	-
Driver displacement volume	l (ft <sup>3</sup> ) 1,1 (0.04)	-
Recommended enclosure	l (ft <sup>3</sup> ) 10,55 (0.37)	-
Recommended tuning	Hz 100	-

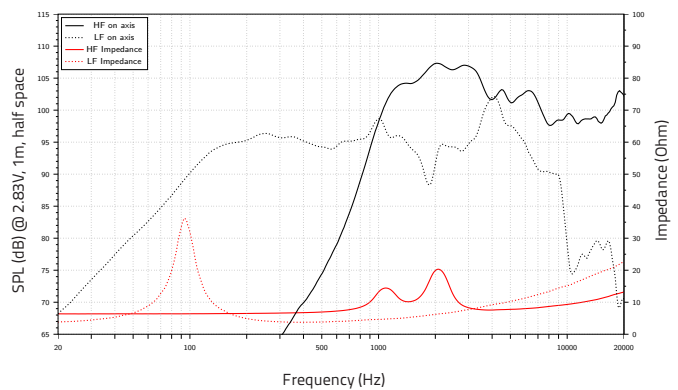
### LF SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	3,2
Resonance frequency	Fs	Hz	93
Moving mass	Mms	g (oz)	18,8 (0.66)
Compliance	Cms	mm/N	0,156
Force factor	BxL	N/A	8,48
Mechanical Q-factor	Qms		5,72
Electrical Q-factor	Qes		0,49
Total Q-factor	Qts		0,45
Equivalent air volume	Vas	l (ft <sup>3</sup> )	10,66 (0.38)
Voice coil Inductance	Le	mH	0,25
Diaphragm area	Sd	cm <sup>2</sup> (in. <sup>2</sup> )	220 (34.1)
Reference efficiency	Eta 0	%	1,67
Efficiency bandwidth product	EBP	Hz	190

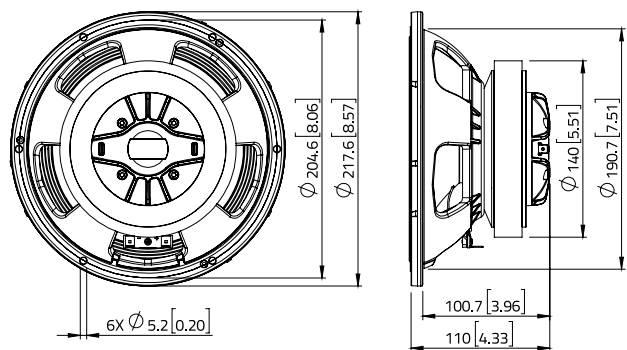
### SHIPPING INFORMATION

Net weight	kg (lb.)	2,9 (6.4)
Multipack size (1)	mm (in.)	244 x 244 x 170 (9.6 x 9.6 x 6.7)
W x D x H		
Multipack weight	kg (lb.)	3,3 (7.3)

### 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 (2200-20000 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

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