CAF123.00T

12" COAXIAL

FERRITE COMMON HF\LF MAGNET
ALUMINIUM BASKET DRIVER

PRELIMINARY

- 3 INCH LF COPPER VOICE COIL
- 3 INCH HF EDGEWOUND CCA VOICE COIL
- 98 DB/SPL SENSITIVITY
- 700 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR, PATENTED IIS PHASEPLUG AND DIAPHRAGM
- 50 – 18000 HZ FREQUENCY RANGE
- 80° NOMINAL COVERAGE
- COMPOSITE TITANIUM/POLYIMIDE HF DIAPHRAGM
- ALUMINIUM DEMODULATING RING
- COMPACT DESIGN

GENERAL SPECIFICATIONS

		LF	HF
LF Nominal diameter / HF Exit	mm (in.)	300 (12)	36 (1.4)
Nominal impedance	Ω	8	8
Minimum impedance	Ω	6	8
Program power (1)	W	700	160
AES Power rating (2)	W	350	80
Sensitivity (3)	dB	98	105,5
Frequency range	Hz	50 ÷ 3500	600 ÷ 18000
Voice coil diameter	mm (in.)	75 (3)	75 (3)
Chassis material		Aluminium	
Magnet material		Ferrite	
Magnet dimensions OD x ID x h	mm (in.)	190 x 85 x 22 (7.48 x 3.35 x 0.87)	
Coil material		Copper	Edgewound CCA
Former material		Glass Fiber	Kapton
LF Cone / HF Dome material		WP Treated Paper + WP Front Side	Titanium
Surround material		Polycotton	Polyimide
Flux density	T	1	1,6
Recommended crossover (4)	Hz	-	1200
Xmax (5)	mm (in.)	6 (0.24)	-
Xmech (6)	mm (in.)	10 (0.39)	-
Gap height	mm (in.)	8 (0.31)	-
Voice coil winding height	mm (in.)	16 (0.63)	-
Driver displacement volume	l (ft³)	3,1 (0.11)	-
Recommended enclosure	l (ft³)	48 (1.69)	
Recommended tuning	Hz	59	

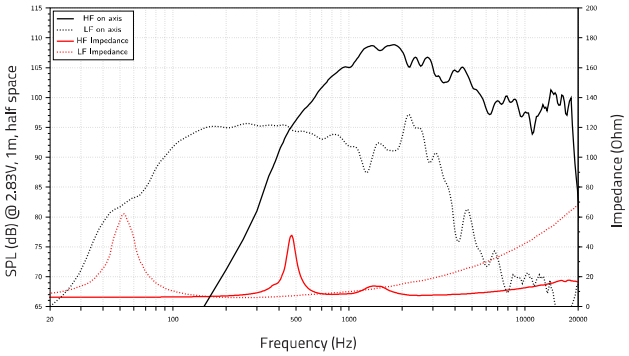
LF SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	5,3
Resonance frequency	Fs	Hz	53
Moving mass	Mms	g (oz)	50,4 (1.78)
Compliance	Cms	mm/N	0,179
Force factor	BxL	N/A	15,2
Mechanical Q-factor	Qms		5,27
Electrical Q-factor	Qes		0,39
Total Q-factor	Qts		0,36
Equivalent air volume	Vas	l (ft³)	71,43 (2.52)
Voice coil Inductance	Le	mH	0,82
Diaphragm area	Sd	cm² (in.²)	531 (82.31)
Reference efficiency	Eta 0	%	2,65
Efficiency bandwidth product	EBP	Hz	136

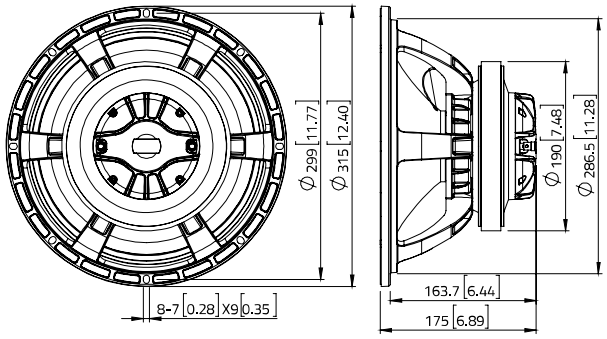
SHIPPING INFORMATION

Net weight	kg (lb.)	7 (15.4)
Multipack size (1) W x D x H	mm (in.)	343 x 343 x 225 (13.5 x 13.5 x 8.8)
Multipack weight	kg (lb.)	8,1 (17.8)

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 (1200-20000 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 600 ÷ 18000 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_I.a

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