

# FSN021.02

Lavoce

## 2" FULLRANGE

NEODYMIUM MAGNET  
STEEL BASKET DRIVER

- 1 INCH CCAW VOICE COIL
- 85 dB/SPL SENSITIVITY
- 50 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED MOTOR AND SUSPENSIONS
- VERY LIGHT MEMBRANE, FOR EXTENDED FREQUENCY RESPONSE
- COPPER RING FOR EXTENDED FREQUENCY RESPONSE
- RUBBER SURROUND MATERIAL



### GENERAL SPECIFICATIONS

Nominal diameter	mm (in.)	50 (2)
Nominal impedance	$\Omega$	8
Minimum impedance	$\Omega$	6
Program power (1)	W	50
AES Power rating (2)	W	25
Sensitivity (3)	dB	85
Frequency range	Hz	140 ÷ 20000
Voice coil diameter	mm (in.)	25 (1)
Chassis material		Steel
Magnet material		Neodymium
Magnet dimensions	mm	24,9 x 5
OD x ID x h	(in.)	(0.98 x 0.2)
Coil material		CCAW
Former material		Polyimide
Cone material		Aluminium
Surround material		Rubber
Xmax (4)	mm (in.)	2,3 (0.09)
Xmech (5)	mm (in.)	3,3 (0.13)
Gap height	mm (in.)	4 (0.16)
Voice coil winding height	mm (in.)	6,6 (0.26)
Driver displacement volume	l (ft <sup>3</sup> )	0,026 (0.001)
Recommended enclosure	l (ft <sup>3</sup> )	0,63 (0.022)
Recommended tuning	Hz	Sealed

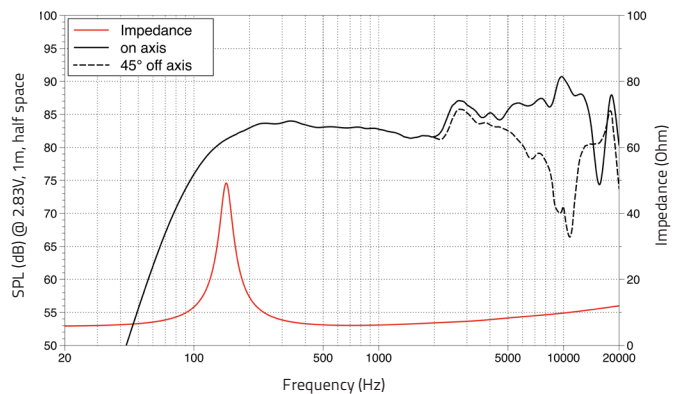
### SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	5,7
Resonance frequency	Fs	Hz	151
Moving mass	Mms	g (oz)	1,7 (0.06)
Compliance	Cms	mm/N	0,65
Force factor	BxL	N/A	3,44
Mechanical Q-factor	Qms		5,5
Electrical Q-factor	Qes		0,77
Total Q-factor	Qts		0,68
Equivalent air volume	Vas	l (ft <sup>3</sup> )	0,3 (0.01)
Voice coil Inductance	Le	mH	0,1
Diaphragm area	Sd	cm <sup>2</sup> (in. <sup>2</sup> )	18 (2.8)
Reference efficiency	Eta 0	%	0,13
Efficiency bandwidth product	EBP	Hz	196

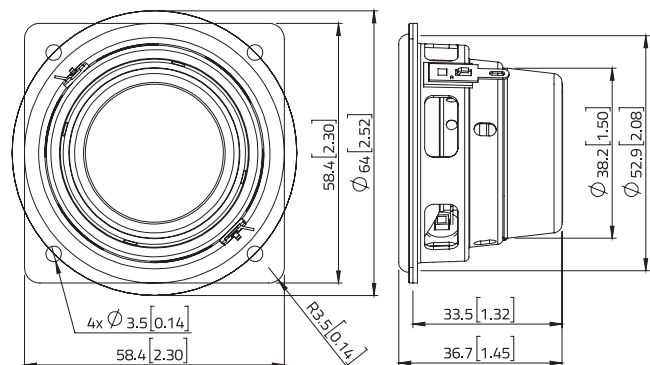
### SHIPPING INFORMATION

Net weight	kg (lb.)	0,15 (0.33)
Multipack size (60)	mm	360 x 335 x 180
W x D x H	(in.)	(14.2 x 13.2 x 7.1)
Multipack weight	kg (lb.)	11,3 (24.9)

### FREQUENCY RESPONSE AND IMPEDANCE



### DIMENSIONS mm (in.)



(1) Program power is defined as 3 dB greater than AES Power. (2) Tested for two hours using a continuous, band-limited pink noise signal as per AES 2-1984 Rev. 2003. Loudspeaker tested in free air. (3) From T/S parameters, measured with Klippel DA LPM module. (4) The Xmax is calculated as:  $(Hvc - Hg)/2 + Hg/4$ . Hvc is the voice coil height and Hg the gap height. (5) The Xmech is calculated as:  $(Hvc - Hg)/2 + (Hg - 2)$ . Hvc is the voice coil height and Hg the gap height. (6) 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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