

WSN102.50

Lavoce

10" WOOFER

NEODYMIUM MAGNET
STEEL BASKET DRIVER



- 2.5 INCH CCAW VOICE COIL
- 97,5 dB/SPL SENSITIVITY
- 600 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED MOTOR AND SUSPENSIONS
- OPTIMIZED COOLING SYSTEM
- RESONANCE FREE AND HEAVY DUTY BASKET DESIGN

GENERAL SPECIFICATIONS

| | | |
|----------------------------|----------------------|-------------------------------|
| Nominal diameter | mm (in.) | 250 (10) |
| Nominal impedance | Ω | 8 |
| Minimum impedance | Ω | 5,7 |
| Program power (1) | W | 600 |
| AES Power rating (2) | W | 300 |
| Sensitivity (3) | dB | 97,5 |
| Frequency range | Hz | 75 ÷ 3000 |
| Voice coil diameter | mm (in.) | 65 (2.5) |
| Chassis material | | Steel |
| Magnet material | | Neodymium |
| Magnet dimensions | mm | 63 x 10 |
| OD x ID x h | (in.) | (2.48 x 0.39) |
| Coil material | | CCAW |
| Former material | | Glass Fiber |
| Cone material | | Water Resistant Treated Paper |
| Surround material | | Polycotton |
| Xmax (4) | mm (in.) | 3,1 (0.12) |
| Xmech (5) | mm (in.) | 10,9 (0.43) |
| Gap height | mm (in.) | 13 (0.51) |
| Voice coil winding height | mm (in.) | 12,7 (0.5) |
| Driver displacement volume | l (ft ³) | 1,1 (0.04) |
| Recommended enclosure | l (ft ³) | 30 (1.05) |
| Recommended tuning | Hz | 80 |

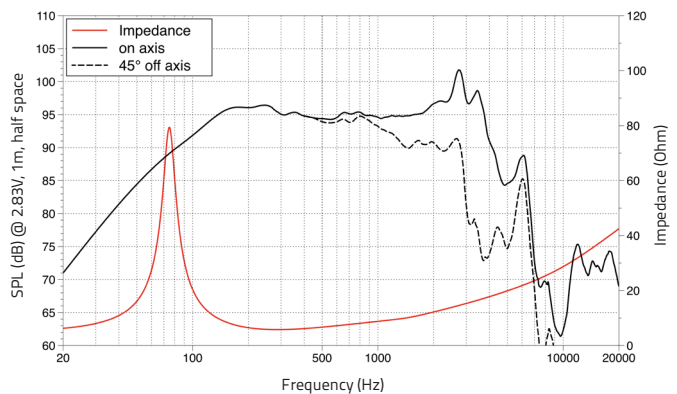
SMALL SIGNAL PARAMETERS

| | | | |
|------------------------------|-------|-------------------------------------|--------------|
| DC resistance | Re | Ohm | 4,9 |
| Resonance frequency | Fs | Hz | 76 |
| Moving mass | Mms | g (oz) | 36,05 (1.27) |
| Compliance | Cms | mm/N | 0,120 |
| Force factor | BxL | N/A | 14,05 |
| Mechanical Q-factor | Qms | | 4,85 |
| Electrical Q-factor | Qes | | 0,43 |
| Total Q-factor | Qts | | 0,39 |
| Equivalent air volume | Vas | l (ft ³) | 21,47 (0.76) |
| Voice coil Inductance | Le | mH | 0,61 |
| Diaphragm area | Sd | cm ² (in. ²) | 356,3 (55.2) |
| Reference efficiency | Eta 0 | % | 2,18 |
| Efficiency bandwidth product | EBP | Hz | 177 |

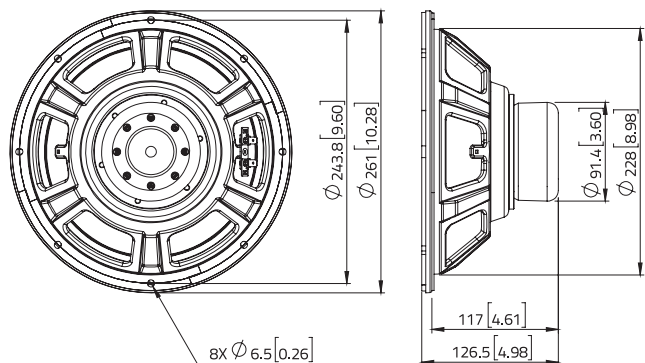
SHIPPING INFORMATION

| | | |
|--------------------|----------|---------------------|
| Net weight | kg (lb.) | 2,8 (6.2) |
| Multipack size (1) | mm | 300 x 300 x 158 |
| W x D x H | (in.) | (11.8 x 11.8 x 5.8) |
| Multipack weight | kg (lb.) | 3,8 (8.4) |

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_E.a

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