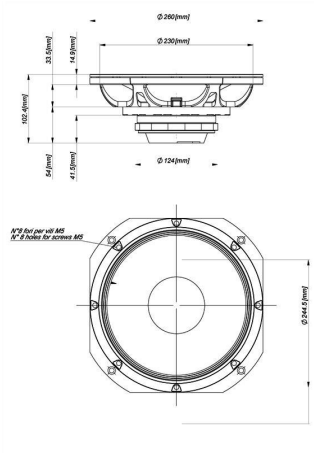
10NMBA520 8Ω

LF drivers - 10.0 Inches



- 100,5 dB SPL 1W / 1m average sensitivity (AIC on)
- 65 mm (2,5 in) Interleaved Sandwich Voice coil (ISV)
- 300 Watt AES power handling
- Neodymium motor assembly
- AIC (Active Impedance Control) secondary voice coil for superior intelligibility, very low distortion and inductance linearization
- Suitable for high quality two way compact systems
- Suitable for line array applications and multiway systems

The 10NMBA520 is the evolution of the 10NDA520. The transducer is a 10" mid-bass transducer created for compact reflex 2-way enclosures, and when compared to 10NDA520 shows 1 dB increased sensitivity over all operative frequency range, as well as 600 Watts program power handling. It can be used in mid-low sections on line-array systems and everywhere very high quality mid-bass frequency range reproduction is needed. The 10NMBA520 incorporates Active Impedance Control technology (AIC), consisting of an additional coil fixed on the pole piece and connected in parallel to the moving coil. The magnetic field generated by AIC coil has the following effects: 1) Impedance linearization 2) Acoustic and electric phase linearization 3) Significant increase of sensitivity and total SPL 4) Total harmonic distortion reduction 5) Constant power transfer By not absorbing the moving coil's electromagnetic energy, the AIC offers substantial advantages to the sound quality. The external neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange. The curvilinear cone, specified with a high damping wood pulp has been designed to achieve the best possible linearity within its frequency range. The 65 mm (2,5 in) diameter aluminum voice coil is wound on a strong fiberglas former in order to improve force transmission and power handling. A special coating applied to both the top and back plates makes the 10NMBA520 far more resistant to the corrosive effects of salts and oxidization.

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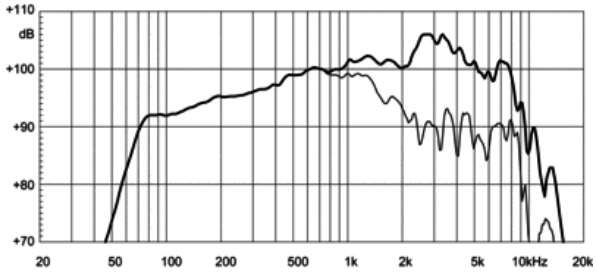

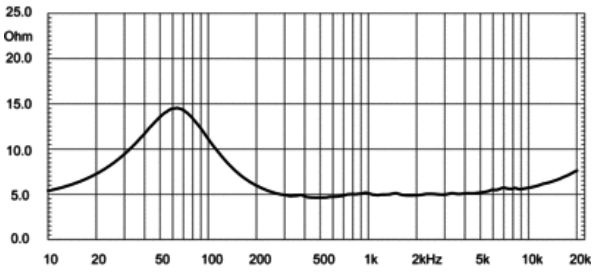

SPECIFICATIONS

Nominal Diameter	260 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Nominal Power Handling[1]	300 W
Continuous Power Handling[2]	600 W
Sensitivity[3]	100.5 dB
Frequency Range	60 - 7000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	aluminum

DESIGN

Surround Shape	Double roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	15.0 dm^3 (0.53 ft^3)
Recommended Tuning	64 Hz

PARAMETERS[4]

Resonance Frequency	60 Hz
Re	5.0 Ω
Qes	0.24
Qms	4.2
Qts	0.23
Vas	42.0 dm^3 (1.48 ft^3)
Sd	350.0 cm^2 (54.25 in^2)
Xmax	4.0 mm
Mms	28.0 g
Bl	14.6 Txm
Le	0.01 mH
EBP	250 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	260 mm (10.24 in)
Bolt Circle Diameter	275 mm (10.83 in)
Baffle Cutout Diameter	232.0 mm (9.13 in)
Depth	104 mm (4.09 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	3.0 kg (6.61 lb)
Shipping Weight	3.57 kg (7.87 lb)
Shipping Box	275 x 275 x 164 mm (10.83x10.83x6.46 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

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