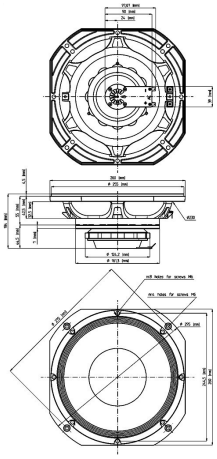
10NMB520 16Ω

LF drivers - 10.0 Inches



- 99 dB SPL 1W/1m average sensitivity
- 65 mm (2,5 in) Interleaved Sandwich Voice coil (ISV)
- 600 W program power handling
- High grade external neodymium motor assembly
- Flux stabilizer ring to linearize impedance curve
- Humidity resistant cone

The 10NMB520 is a 10" mid-bass transducer created for compact reflex 2-way enclosures. It can be coupled with 1" compression drivers and it can also be used in mid-low sections on modern line-array systems.
 Its features and design characteristics make it extremely defined in mid-range frequencies, offering a significant and consistent bottom-end. This also makes it suitable for monitoring applications.
 The extremely powerful external neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange. The overall result is the best power to weight ratio available on the market today.
 The curvilinear cone, specified with a high damping wood pulp has been designed to achieve the best possible linearity within its frequency range. The in-house developed cone treatment is a humidity repellent and significantly dampens bell-mode resonances.
 The 65mm edge-wound voice coil assembly is wound on a strong fiberglas former in order to improve force transmission and power handling.
 A proprietary humidity-block cone treatment makes the transducer suitable for outdoor use in adverse weather conditions. In addition, a special coating applied to both the top and back plates makes the 10NMB520B far more resistant to the corrosive effects of salts and oxidization.

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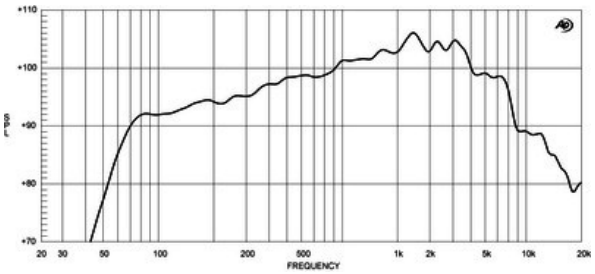

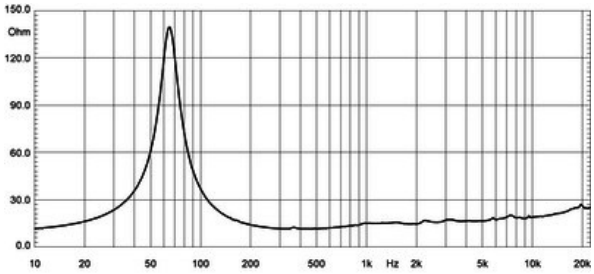

SPECIFICATIONS

Nominal Diameter	260 mm (in)
Nominal Impedance	16 Ω
Nominal Power Handling[1]	300 W
Continuous Power Handling[2]	600 W
Sensitivity[3]	100.0 dB
Frequency Range	60 - 5000 Hz
Voice Coil Diameter	0 mm (in)
Winding Material	aluminum

DESIGN

Surround Shape	Double roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	24.0 dm^3 (0.85 ft^3)
Recommended Tuning	70 Hz

PARAMETERS[4]

Resonance Frequency	64 Hz
Re	11.7 Ω
Qes	0.36
Qms	4.0
Qts	0.33
Vas	43.0 dm^3 (1.52 ft^3)
Sd	340.0 cm^2 (52.7 in^2)
Xmax	4.0 mm
Mms	23.0 g
Bl	17.5 Txm
Le	0.33 mH
EBP	177 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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