

12NDA520

High Output Midbass Neo Transducer

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	300mm (12 in)
RATED IMPEDANCE	8 Ohm
AES POWER	300W
PROGRAM POWER (1)	450W
PEAK POWER (2)	900W
SENSITIVITY (3)	100,5dB
FREQUENCY RANGE (4)	55 - 6000 Hz
POWER COMPRESSION @-10DB (5)	0,7 dB
POWER COMPRESSION @-3DB	2,5 dB
POWER COMPRESSION @FULL POWER	3,9 dB
MAX RECOMM. FREQUENCY	2000 Hz
RECOMM. ENCLOSURE VOLUME	35 ÷ 80 lt. (12 ÷ 28 cuft)
MINIMUM IMPEDANCE	6,5 Ohm at 25°C
MAX PEAK TO PEAK EXCURSION	22 mm (0,87 in)
VOICE COIL DIAMETER	65 mm (2,5 in)
VOICE COIL WINDING MATERIAL	aluminum
SUSPENSION	Triple roll, polycotton
CONE	curvilinear, paper

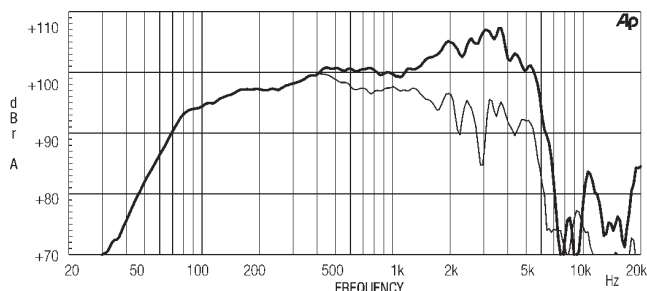
THIELE SMALL PARAMETERS (6)

Fs	50 Hz
Re	5,2 Ohm
Sd	0,0531 sq.mt. (82,31 sq.in.)
Qms	5,5
Qes	0,284
Qts	0,27
Vas	111 lt. (3,9 cuft)
Mms	36 gr. (0,08 lb)
BL	14,4 Tm
Linear Mathematical Xmax (7)	± 4 mm (±0,16 in)
Le (1kHz)	0,03 mH (AIC on) - 0,57mH (AIC off)
Ref. Efficiency 1W@1m (half space)	98,9 dB

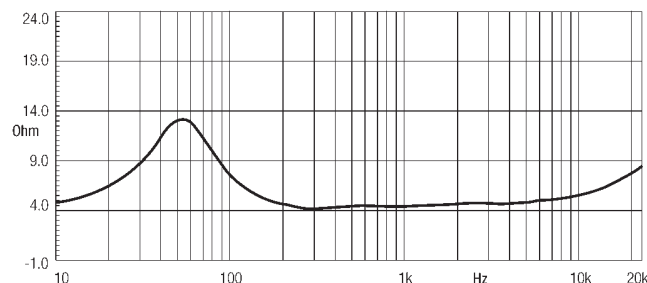
MOUNTING INFORMATION

Overall diameter	315 mm (12,4 in)
N. of mounting holes	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	296-300 mm (11,65-11,8 in)
Front mount baffle cutout ø	282 mm (11,1 in)
Rear mount baffle cutout ø	282 mm (11,1 in)
Total depth	125 mm (4,92 in)
Flange and gasket thickness	11,5 mm (0,45 in)
Net weight	2,2 kg (4,86 lb)
Shipping weight	3 kg (6,62 lb)
CardBoard Packaging dimensions	332 x 332 x 184mm (13,07 x 13,07 x 7,24 in)

FREQUENCY RESPONSE CURVE OF 12NDA520 MADE ON 50 LIT. ENCLOSURE TUNED 60HZ INFREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE



FREE AIR IMPEDANCE MAGNITUDE CURVE – AIC ON



NOTES

- (1) Program power rating is measured in a 50 lit enclosure tuned at 60Hz, using a 60 -2000 Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
- (2) The peak power rating represents the maximum permitted instantaneous peak power level over a maximum period of 10ms which will be withstood by the loudspeaker without damage.
- (3) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 2,83V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for (1) above.
- (4) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.
- (5) Power compression represents the loss of sensitivity for the specified power, measured from 50-500 Hz, after a 5 min pink noise preconditioning test at the specified power.
- (6) Thiele - Small parameters are measured after the test specimen has been conditioned by 300W AES power and represent the expected long-term behaviour after a short period of use.
- (7) Linear Math. Xmax is calculated as $(Hvc-Hg)/2 + Hg/4$ where Hvc is the coil depth and Hg is the gap depth.

Eighteen Sound engages in research and product improvement. New materials and design refinements can be introduced into existing products without notice.