

## Speaker 6NM410 (022068N410)

HIGH OUTPUT MIDRANGE TRANSDUCER

### GENERAL SPECIFICATIONS

NOMINAL DIAMETER	152 mm (6 in)
RATED IMPEDANCE	8 Ω
AES POWER (1)	180 W
PROGRAM POWER (2)	240 W
PEAK POWER (3)	480 W
SENSITIVITY (4)	101.5 dB
FREQUENCY RANGE (5)	150 + 6300 Hz
POWER COMPRESSION @-10 dB (6)	(18W) 0.7 dB
POWER COMPRESSION @-3 dB	(90W) 1.2 dB
POWER COMPRESSION @FULL POWER	(180W) 1.6 dB
MAX RECOMM. FREQUENCY	5000 Hz
RECOMM. ENCLOSURE VOLUME	1 + 5 lt. (0.04 + 0.18 cu.ft)
MINIMUM IMPEDANCE	7.3 Ω at 25°
MAX PEAK TO PEAK EXCURSION	8 mm (0.31 in)
VOICE COIL DIAMETER	45 mm (1.77 in)
VOICE COIL WINDING MATERIAL	Aluminum
SUSPENSION	Progressive double roll, Polycotton
CONE	Curvilinear, Paper

### THIELE SMALL PARAMETERS (7)

Fs	155 Hz
Re	5.8 Ω
Sd	0.0143 sq.m (22.17 sq.in)
Qms	3.92
Qes	0.40
Qts	0.37
Vas	2.8 lt. (0.10 cu.ft)
Mms	8.8 gr. (0.02 lb)
BL	11.28 Tm
Linear Mathematical Xmax (8)	±2 mm (±0.08 in)
Le (1kHz)	0.07 mH
Ref. Efficiency 1W@1m (half space)	96.5 dB

### MOUNTING INFORMATION

Overall diameter	162 mm (6.38 in)
N. of mounting holes	4
Mounting holes diameter	5.5 mm (0.22 in)
Bolt circle diameter	170 mm (6.69 in)
Front mount baffle cutout ø	148 mm (5.83 in)
Rear mount baffle cutout ø	148 mm (5.83 in)
Total depth	60 mm (2.36 in)
Flange and gasket thickness	9.5 mm (0.37 in)
Net weight	1.25 kg (2.76 lb)
Shipping weight	1.8 kg (3.97 lb)
CardBoard Packaging dimensions	170x170x80 mm (6.69x6.69x3.15 in)

### TECHNOLOGIES

EW, Aluminium, Edgewound Coil

(1) AES standard.

(2) Program power rating is measured in 2 lit. closed enclosure using a 300-3000Hz band limited pink noise test signal applied for 2 hours and with 50% duty cycle.

(3) 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.

(4) 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 500Hz and 2500Hz with the test specimen mounted in the same enclosure as given for 2 above.

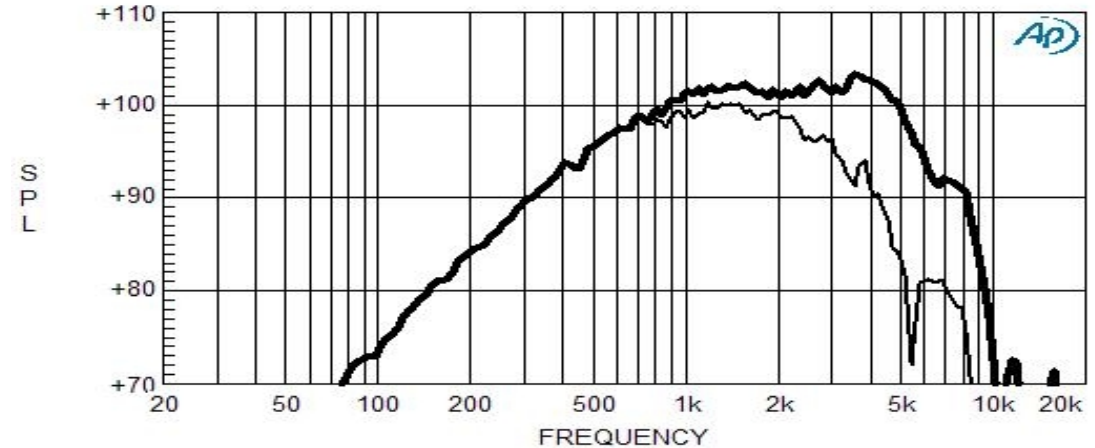
(5) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.

(6) Power compression represents the loss of sensitivity for the specified power, measured from 300 to 3000Hz after a 5 min pink noise preconditioning test at the specified power.

(7) Thiele - Small parameters are measured after the test specimen has been conditioned by 1 hour 20 Hz sine and represent the expected long term parameters after a short period of use.

(9) Linear Mat. Xmax is calculated as;  $(Hvc-Hg)/2 + Hg/4$  where Hvc is the coil depth and Hg is gap depth.

FREQUENCY RESPONSE MADE IN 2 LT. CLOSED ENCLOSURE IN FREE FIELD (4π) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER, THE THIN LINE REPRESENTS 45° OFF AXIS FREQUENCY RESPONSE



### FREE AIR IMPEDANCE CURVE

