

# 18NLW9601 C 8 Ohm (022188N0C1)

NEO LF TRANSDUCER

## GENERAL SPECIFICATIONS

NOMINAL DIAMETER	462 mm (18 in)
RATED IMPEDANCE	8 Ω
POWER (1)	1800 W
PROGRAM POWER (2)	3600 W
PEAK POWER (3)	10000 W
SENSITIVITY (4)	95 dB
FREQUENCY RANGE (5)	30 ÷ 2300 Hz
POWER COMPRESSION @-10 dB (6)	(180W) 0.7 dB
POWER COMPRESSION @-3 dB	(900W) 1.3 dB
POWER COMPRESSION @FULL POWER	(1800W) 2.2 dB
MAX RECOMM. FREQUENCY	300 Hz
RECOMM. ENCLOSURE VOLUME	110 ÷ 350 lt. (3,89 ÷ 12,36 cu.ft)
MINIMUM IMPEDANCE	6 @ 25°
MAX PEAK TO PEAK EXCURSION	70 mm (2,76 in)
VOICE COIL DIAMETER	135 mm (5,31 in)
VOICE COIL WINDING MATERIAL	Aluminum
SUSPENSION	Triple roll, Heavy Polycotton
CONE	Straight carbon fiber

## THIELE SMALL PARAMETERS (7)

Fs	38,5 Hz
Re	4,7 Ω
Sd	0,113 sq.m (175,15 sq.in)
Qms	6,29
Qes	0,36
Qts	0,34
Vas	99 lt. (3,50 cu.ft)
Mms	314 gr. (0,69 lb)
BL	31,70 Tm
Linear Mathematical Xmax (8)	±14 mm (±0,55 in)
Le (1kHz)	1,80 mH

## MOUNTING INFORMATION

Overall diameter	462 mm (18,19 in)
N. of mounting holes	8
Mounting holes diameter	8,5 mm (0,33 in)
Bolt circle diameter	440 mm (17,32 in)
Front mount baffle cutout ø	416 mm (16,38 in)
Rear mount baffle cutout ø	422 mm (16,61 in)
Total depth	236 mm (9,29 in)
Flange and gasket thickness	26 mm (1,02 in)
Net weight	12,8 kg (28,22 lb)
Shipping weight	14,3 kg (31,53 lb)
CardBoard Packaging dimensions	482x482x257 mm (18,98x18,98x10,12 in)

## TECHNOLOGIES

SDR Single Demodulating Ring, DSS Double Silicon Spider

Note: Frequency Response 1/3 octave smoothing ; Near Filed measurement from 10Hz to 160Hz spliced with 1m on axis 160Hz-20kHz

(1) Power= $V^2/Z_{min}$ , 12dB crest factor, 50% duty cycle, 12dB/8ve 40Hz-400Hz in 180L/35Hz enclosure, 2 Hours.

(2) Program power rating is measured in 180 lit. enclosure tuned at 35 Hz using a 40-400 band limited pink noise test signal applied for 2 hours and with 50% duty cycle.

(3) The peak power rating is based on a 4,5 dB crest factor above the program power rating and 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 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for 2 above.

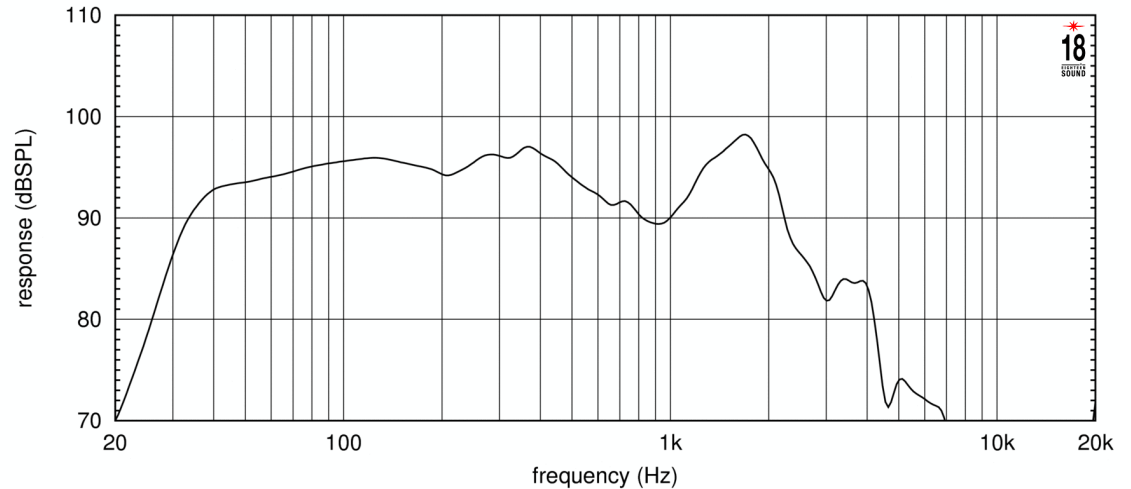
(5) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.

(6) Power compression represents the loss of sensitivity for the specified power, measured from 40 to 400Hz after a 5 min pink noise preconditioning test at the specified power.

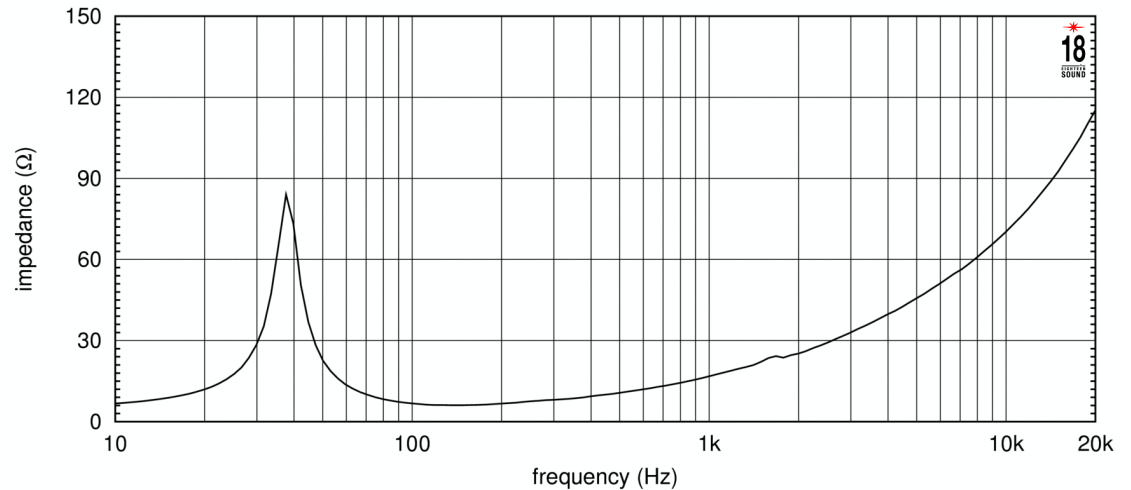
(7) Thiele - Small parameters are measured after the test specimen has been conditioned by 1 hour 20 Hz sine and represent the expected long term parameters after a short period of use.

(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 180 LT. ENCLOSURE TUNED AT 35 Hz IN FREE FIELD (4π) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER



## FREE AIR IMPEDANCE CURVE



Versione: 16/12/2014