

12ND830

High Output MidBass Neodymium Driver



Key Features

- 99 dB SPL 1W / 1m average sensitivity
- 75mm Interleaved Sandwich Voice coil (ISV)
- 450 W continuous pink noise
- Neodymium magnet assembly
- Ideal for two way compact reflex enclosures

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	300mm	(12 in)
RATED IMPEDANCE	8 ohms	
CONTINUOUS PINK NOISE (1)	450 W	
SENSITIVITY (2)	99 dB	
FREQUENCY RANGE (3)	53 ÷ 5000 Hz	
MAX. RECOMM. FREQUENCY	2000 Hz	
RECOMM. ENCLOSURE VOLUME	40 ÷ 100 Lt.	(1,41 ÷ 3,53 cu ft)
VOICE COIL DIAMETER	75 mm	(3 in)
NET WEIGHT	4 kg	(8,83 lb)

THIELE-SMALL PARAMETERS (4)

Fs	55 Hz	
Re	5,7 ohms	
Sd	0,0531 sq.mt.	(82,31 sq.in.)
Qms	5,15	
Qes	0,296	
Qts	0,28	
Vas	72 lt.	(2,54cuft)
Mms	46 gr.	(0,10 lb)
BL	17,6 Tm	
Linear Mathematical Xmax (5)	±6,5 mm	(± 0,26 in)
Le (1kHz)	1,5 mH	
Ref. Efficiency 1W@1m (half space)	98,3 dB	

(1) AES standard

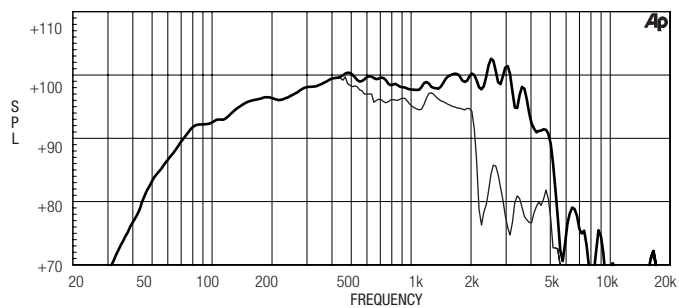
(2) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 2,83 V sine wave test signal swept between 500Hz and 2500Hz with the test specimen mounted the same enclosure as given for graph text below.

(3) 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.

(4) Thiele - Small parameters are measured after the test specimen has been conditioned by 450 W AES power and represents the expected long term parameters after a short period of use.

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

FREQUENCY RESPONSE CURVE OF 12ND830 MADE ON 50 LIT. ENCLOSURE TUNED 60HZ IN FREE 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

