18LW800

Extended Low Frequency Ferrite Driver

Key Features

99,5 dB SPL 1W / 1m average sensitivity

75 mm (3") Interleaved Sandwich Voice coil (ISV)

500 W continuous pink noise

Weather protected cone and plates for outdoor use

Improved heat dissipation via unique basket design

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	460 mm	(18 in)
RATED IMPEDANCE	8 ohms	
CONTINUOUS PINK NOISE *(1)*	500 W	
SENSITIVITY *(2)*	99,5 dB	
FREQUENCY RANGE *(3)*	35 ÷ 3300 Hz	
MAXI. RECOMM. FREQUENCY	500 Hz	
RECOMM.ENCLOSURE VOLUME	120 ÷ 200 lt.	(4,24 ÷ 7,06 cuft)
VOICE COIL DIAMETER	75 mm	(2,95 in)
NET WEIGHT	9,1 kg	(20,09 lb)

THIELE-SMALL PARAMETERS *(4)*

Fs	29 Hz	
Re	5 ohms	
Sd	0,1133 sq.mt.	(175,7 sq.in.)
Qms	4,50	
Qes	0,29	
Qts	0,27	
Vas	448 lt.	(15,82 cuft)
Mms	123 gr.	(0,27 lb)
BL	20 Tm	
Linear Mathematical Xmax *(5)*	± 8 mm	(± 0,31 in)
Le (1kHz)	1,94 mH	
Ref. Efficiency 1W @ 1m (half space)	97,7 dB	

(1) AES standard.

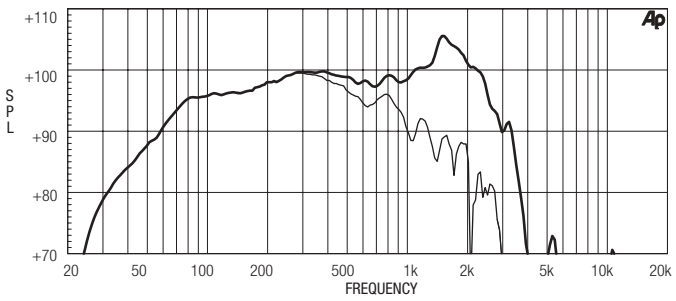
(2) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone , at distance 1m from the baffle panel, when connected to 2,83 V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for graph 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 500 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 18LW800 MADE ON 180 LIT. ENCLOSURE TUNED 35HZ 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