

15LW1401

Extended Low Frequency Ferrite Driver



Key Features

- 98 dB SPL 1W / 1m average sensitivity
- 100mm (4") Interleaved Sandwich Voice coil (ISV)
- 1000 W continuous pink noise
- Weather protected cone and plates for outdoor usage
- Double Silicon Spider (DSS) for improved excursion control and linearity
- Double Demodulating Rings (DDR) for lowest distortion and improved heat dissipation
- Improved heat dissipation via unique basket design

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	380mm	(15 in)
RATED IMPEDANCE	8 ohms	
CONTINUOUS PINK NOISE (1)	1000 W	
SENSITIVITY (2)	98 dB	
FREQUENCY RANGE(3)	40 ÷ 2400 Hz	
MAX RECOMM. FREQUENCY	800 Hz	
RECOMM.ENCLOSURE VOLUME	70 ÷ 150 lt.	(2,47 ÷ 5,30 cuft)
VOICE COIL DIAMETER	100mm	(3,95 in)
NET WEIGHT	12,4 kg	(27,37 lb)

THIELE-SMALL PARAMETERS (4)

Fs	42 Hz	
Re	5 ohms	
Sd	0,090 sq.mt.	(139,5 sq.in.)
Qms	5,36	
Qes	0,28	
Qts	0,27	
Vas	131 lt.	(4,63 cuft)
Mms	125 gr.	(0,28 lb)
BL	24,2 Tm	
Linear Mathematical Xmax (5)	± 9 mm	(± 0,35 in)
Le (1kHz)	2,15 mH	
Ref. Efficiency 1W @ 1m (half space)	97,4 dB	

(1) AES standard.

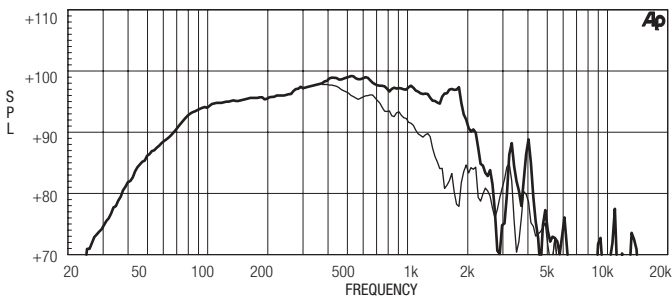
(2) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 2,83 V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for graph 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 1000 W AES power and represents the expected long term parameters after a short period of use.

(5) Linear Mat. Xmax is calculated as $(H_{vc}-H_g)/2 + H_g/4$ where H_{vc} is the coil depth and H_g is gap depth.

**FREQUENCY RESPONSE CURVE OF
15LW1401 MADE ON 125 LIT. ENCLOSURE
TUNED 50HZ 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

