

# 15W1301

Low Frequency  
Ferrite Driver



## Key Features

- 99 dB SPL 1W / 1m average sensitivity
- 100 mm (4") Interleaved Sandwich Voice coil (ISV)
- 800 W continuous pink noise
- Weather protected cone and plates for outdoor usage
- Twin Spider (TS) for improved linerarity
- Double Demodulating Rings (DDR) for lowest distortion
- Improved heat dissipation via unique basket design

### GENERAL SPECIFICATIONS

NOMINAL DIAMETER	380 mm	(15 in)
RATED IMPEDANCE	8 ohms	
CONTINUOUS PINK NOISE (1)	800 W	
SENSITIVITY (2)	99 dB (2)	
FREQUENCY RANGE (3)	39 ÷ 2800 Hz	
MAX RECOMM. FREQUENCY	1200 Hz	
RECOMM. ENCLOSURE VOLUME	70 ÷ 300 Lt.	(2,47 ÷ 10,6 cuft)
VOICE COIL DIAMETER	100 mm	(3,95 in)
NET WEIGHT	12,3 kg	(27,15 lb)

### THIELE-SMALL PARAMETERS (4)

Fs	48 Hz	
Re	5,5 ohms	
Sd	0,090 sq.mt.	(139,5 sq.in.)
Qms	8,50	
Qes	0,37	
Qts	0,32	
Vas	123 Lt.	(4,34 cuft)
Mms	99 gr.	(0,22 lb)
BL	22,3 Tm	
Linear Mathematical Xmax (5)	± 6 mm	(± 0,24 in)
Le (1kHz)	1,55 mH	
Ref. Efficiency		
1W @ 1m (half space)	97,4 dB	

(1) AES standard.

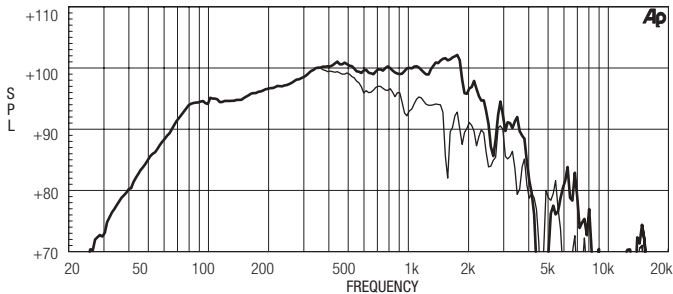
(2) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone , at distance 1m from the baffle panel, when connected to 2,83 V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for graph 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 800 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  
15W1301 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

