



Key features

- 99 dB SPL 1W / 1m average sensitivity
- 100mm (4") interleaved sandwich voicecoil (ISV)
- 1500W continuous pink noise
- Weather protected cone and plates for outdoor use
- 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 plus

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	533mm	(21 in)
RATED IMPEDANCE	8 ohms	
CONTINUOUS PINK NOISE	1500W	(1)
CONT. POWER	800 W	(2)
PROGRAM POWER	1600 W	(3)
PEAK POWER	7000 W	(4)
SENSITIVITY	99 dB	(5)
FREQUENCY RANGE	24 - 2000 Hz	(6)
POWER COMPRESSION		(7)
@-10 dB (80 W)	0,6 dB	
@-3 dB (400 W)	1,5 dB	
@FULL POWER (800 W)	2,2 dB	
MAX RECOMM. FREQUENCY	250 Hz	
RECOMM. ENCLOSURE VOLUME	120 - 500 lt.	(4,24 - 17,7 cuft)
MINIMUM IMPEDANCE	6,4 ohms	at 25 °C
MAX. EXCURSION PEAK TO PEAK	52 mm	(2,05 in)
VOICE COIL DIAMETER	100 mm	(4 in)
VOICE COIL WINDING MATERIAL	copper	

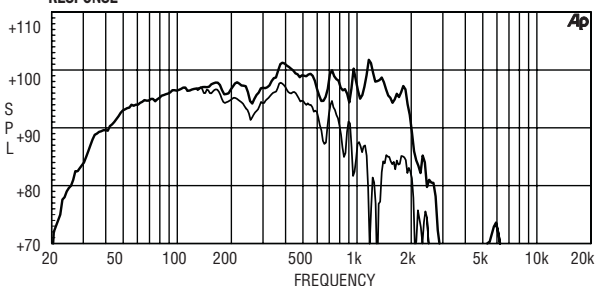
THIELE-SMALL PARAMETERS (8)

Fs	28 Hz
Re	5 ohms
Sd	0,1662 sq.mt. (257,6 sq.in.)
Qms	9,32
Qes	0,242
Qts	0,235
Vas	385 lt. (13,6 cuft)
Mms	296 gr. (0,65 lb)
BL	33,5 Tm
Linear Mathematical Xmax	± 9,5 mm (± 0,37 in) (9)
Le (1kHz)	2,85 mH
Ref. Efficiency	
dB / 1W / 1m (half space)	98,0 dB

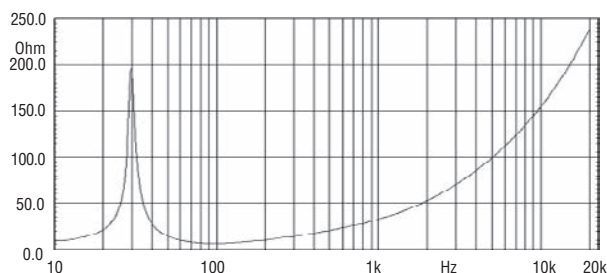
MOUNTING INFORMATION

Overall diameter	545 mm	(21,46 in)
N. of mounting holes	8	
Mounting holes diameter	10 mm	(0,39 in)
Bolt circle diameter	520 mm	(20,47 in)
Front mount baffle		
cutout diameter	492 mm	(19,37 in)
Rear mount baffle		
cutout diameter	490 mm	(19,29 in)
Total depth	260 mm	(10,94 in)
Flange and gasket thickness	14 mm	(0,55 in)
Net weight	19,2 kg	(42,38 lb)
Shipping weight	20,6 kg	(45,47 lb)
CardBoard packing dimensions	550 x 550 x 300 mm	(21,65 x 21,65 x 11,8 in)

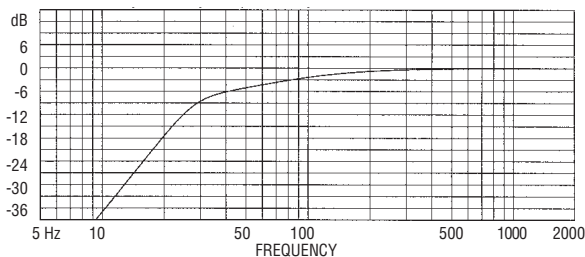
FREQUENCY RESPONSE CURVE OF 21LW1600 MADE ON 250 Lt. ENCLOSURE TUNED 28HZ IN FREE FIELD (4pi) ENVIROMENT. ENCLOSURE CLOSE THE REAR OF THE DRIVER . THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE



FREE AIR IMPEDANCE MAGNITUDE CURVE



NORMALIZED AMPLITUDE RESPONSE (dB/Hz)



Box Parameters

Custom Vented Box

Vb	= 180.0 Lt.	Fill	= normal
Fb	= 28.0 Hz	Dv	= 160,0 mm
QL	= 7.0	Lv	= 667,0 mm
		2 Ports	

(1) AES standard
 (2) Continuous power rating is measured in 250 lit enclosure tuned 30Hz using a 40 -400Hz band limited pink noise test signal applied continuously for 2 hours.
 (3) *Program power rating is measured as for "2" above but 50% duty cycle ."
 (4) The peak power rating is based on a 10dB crest factor above the continuous 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.
 (5) 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 2 above.
 (6) 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.
 (7) Power compression represents the loss of sensitivity for the specified power, measured from 50-500 Hz, after a 5 min pink noise preconditioning test at the specified power.
 (8) Thiele - small parameters are measured after the test specimen has been conditioned by 1500 W AES power and represent the expected long term parameters after ashort 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.