



Key features

- 97,5 dB SPL 1W / 1m average sensitivity
- 100mm (4") interleaved sandwich voicecoil (ISV)
- 1000 W continuous pink noise
- Weather protected cone and plates for outdoor use
- Double Silicon Spider (DSS) for improved excursion control and linearity
- Improved heat dissipation via unique basket design
- Very low power compression

GENERAL SPECIFICATIONS

| | | |
|-----------------------------|---------------------|----------------------|
| NOMINAL DIAMETER | 380mm | (15 in) |
| RATED IMPEDANCE | 8 ohms | |
| CONTINUOUS PINK NOISE | 1000 W | (1) |
| CONT. POWER | 700 W | (2) |
| PROGRAM POWER | 1400 W | (3) |
| PEAK POWER | 7000 W | (4) |
| SENSITIVITY | 97,5 dB | (5) |
| FREQUENCY RANGE | 40 - 2000 Hz | (6) |
| POWER COMPRESSION | | (7) |
| @-10 dB (70 W) | 0,6 dB | |
| @-3 dB (350 W) | 2,2 dB | |
| @FULL POWER (700 W) | 3,1 dB | |
| MAX RECOMM. FREQUENCY | 800 Hz | |
| RECOMM. ENCLOSURE VOLUME | 70 - 140 lt. | (2,47 - 4,95 cuft) |
| MINIMUM IMPEDANCE | 7,4 ohms at 25 deg. | |
| MAX EXCURSION PEAK TO PEAK | 39 mm | (1,53 in) |
| VOICE COIL DIAMETER | 100mm | (3,95 in) |
| VOICE COIL WINDING MATERIAL | copper | |

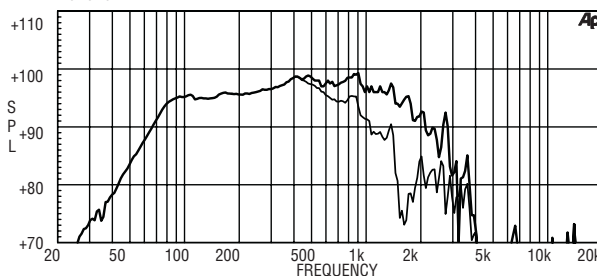
THIELE-SMALL PARAMETERS (8)

| | |
|----------------------------|--------------------------------|
| Fs | 42 Hz |
| Re | 5,9 ohms |
| Sd | 0,090 sq.mt. (131,75 sq.in.) |
| Qms | 8,10 |
| Qes | 0,29 |
| Qts | 0,28 |
| Vas | 126 lt. (4,45 cuft) |
| Mms | 130 gr. (0,63 lb) |
| BL | 26,3 Tm |
| Linear Mathematical Xmax | ± 7 mm (± 0,28 in) (9) |
| Le (1kHz) | 2,66 mH |
| Ref. Efficiency | |
| dB / 1W / 1m (half space) | 97,1 dB |

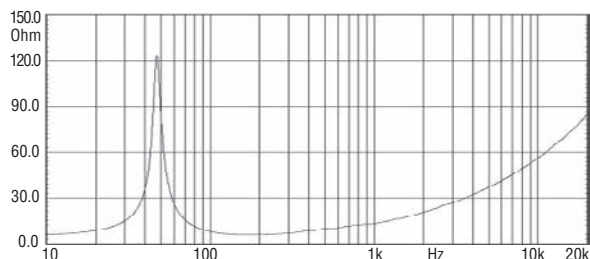
MOUNTING INFORMATION

| | | |
|------------------------------------|--------------------|-----------------------------|
| Overall diameter | 387 mm | (15,24 in) |
| N. of mounting holes | 8 | |
| Mounting holes diameter | 7,15 mm | (0,28 in) |
| Bolt circle diameter | 370 - 371 mm | (14,57 - 14,61 in) |
| Front mount baffle cutout diameter | 353 mm | (13,90 in) |
| Rear mount baffle cutout diameter | 357 mm | (14,16 in) |
| Total depth | 164 mm | (6,46 in) |
| Flange and gasket thickness | 19 mm | (0,75 in) |
| Net weight | 12,4 kg | (27,37 lb) |
| Shipping weight | 13,4 kg | (29,58 lb) |
| CardBoard packing dimensions | 405 x 405 x 214 mm | (15,94 x 15,94 x 8,43 in) |

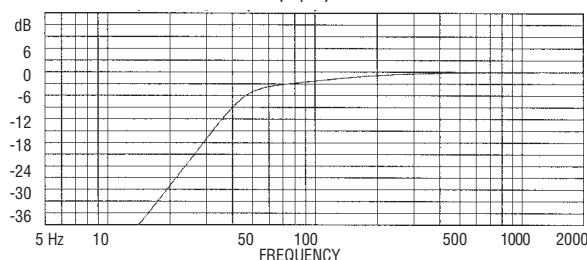
FREQUENCY RESPONSE CURVE OF 15LW1401 MADE ON 125 Lt. ENCLOSURE TUNED 50Hz IN FREE FIELD (4pi) ENVIROMENT. ENCLOSURE CLOSE THE REAR OF THE DRIVER . THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE



FREE AIR IMPEDANCE MAGNITUDE CURVE



NORMALIZED AMPLITUDE RESPONSE (dB/Hz)



Box Parameters

Custom Vented Box

| | | | |
|-----------|------------|-------------|-----------|
| Vb | = 75.0 Lt. | Fill | = normal |
| Fb | = 45.0 Hz | Dv | = 16,0 cm |
| QL | = 7.0 | Lv | = 23,8 cm |

(1) AES standard

(2) Continuous power rating is measured in 125 lit enclosure tuned 50Hz 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 1000 W AES power and represent the expected long term parameters after short 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.