

# ALT. 8MB500 4OHM (0220849000)

HIGH OUTPUT MIDBASS TRANSDUCER

## GENERAL SPECIFICATIONS

|                               |                                 |
|-------------------------------|---------------------------------|
| NOMINAL DIAMETER              | 200 mm (8 in)                   |
| RATED IMPEDANCE               | 4 Ω                             |
| AES POWER (1)                 | 280 W                           |
| PROGRAM POWER (2)             | 400 W                           |
| PEAK POWER (3)                | 800 W                           |
| SENSITIVITY (4)               | 95 dB                           |
| FREQUENCY RANGE (5)           | 60 ÷ 4500 Hz                    |
| POWER COMPRESSION @-10 dB (6) | (28W) 0,5 dB                    |
| POWER COMPRESSION @-3 dB      | (140W) 1,4 dB                   |
| POWER COMPRESSION @FULL POWER | (280W) 2,3 dB                   |
| MAX RECOMM. FREQUENCY         | 3000 Hz                         |
| RECOMM. ENCLOSURE VOLUME      | 10 ÷ 40 lt. (0,35 ÷ 1,41 cu.ft) |
| MINIMUM IMPEDANCE             | 3,1 Ω at 25°                    |
| MAX PEAK TO PEAK EXCURSION    | 19 mm (0,75 in)                 |
| VOICE COIL DIAMETER           | 51 mm (2,01 in)                 |
| VOICE COIL WINDING MATERIAL   | Aluminium                       |
| SUSPENSION                    | Triple-roll, polycotton         |
| CONE                          | Curvilinear, Treated paper      |

## THIELE SMALL PARAMETERS (7)

|                                    |                          |
|------------------------------------|--------------------------|
| Fs                                 | 73 Hz                    |
| Re                                 | 2,6 Ω                    |
| Sd                                 | 0,023 sq.m (35,65 sq.in) |
| Qms                                | 2,56                     |
| Qes                                | 0,42                     |
| Qts                                | 0,36                     |
| Vas                                | 18,4 lt. (0,65 cu.ft)    |
| Mms                                | 17,6 gr. (0,04 lb)       |
| BL                                 | 7,2 Tm                   |
| Linear Mathematical Xmax (8)       | ±6 mm (±0,24 in)         |
| Le (1kHz)                          | 0,34 mH                  |
| Ref. Efficiency 1W@1m (half space) | 94,6 dB                  |

## MOUNTING INFORMATION

|                                |                                    |
|--------------------------------|------------------------------------|
| Overall diameter               | 210 mm (8,27 in)                   |
| N. of mounting holes           | 6                                  |
| Mounting holes diameter        | 6 mm (0,24 in)                     |
| Bolt circle diameter           | 195 ÷ 198 mm (7,68 ÷ 7,80 in)      |
| Front mount baffle cutout ø    | 186 mm (7,32 in)                   |
| Rear mount baffle cutout ø     | 184 mm (7,24 in)                   |
| Total depth                    | 99,5 mm (3,92 in)                  |
| Flange and gasket thickness    | 14,5 mm (0,57 in)                  |
| Net weight                     | 3,6 kg (7,94 lb)                   |
| Shipping weight                | 4 kg (8,82 lb)                     |
| CardBoard Packaging dimensions | 235x235x150 mm (9,25x9,25x5,91 in) |

## TECHNOLOGIES

ISV Interleaved Sandwich Voice Coil

(1) AES standard.

(2) Program power rating is measured in 25 lit. enclosure tuned at 65 Hz using a 70-1000 band limited pink noise test signal applied for 2 hours and with 50% duty cycle.

(3) The peak power rating represent the maximum permitted instantaneous peak power level over a maximum period of 10ms which will be withstood by the loudspeaker without damage.

(4) 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 2V sine wave test signal swept between 500Hz and 2500Hz with the test specimen mounted in the same enclosure as given for 2 above.

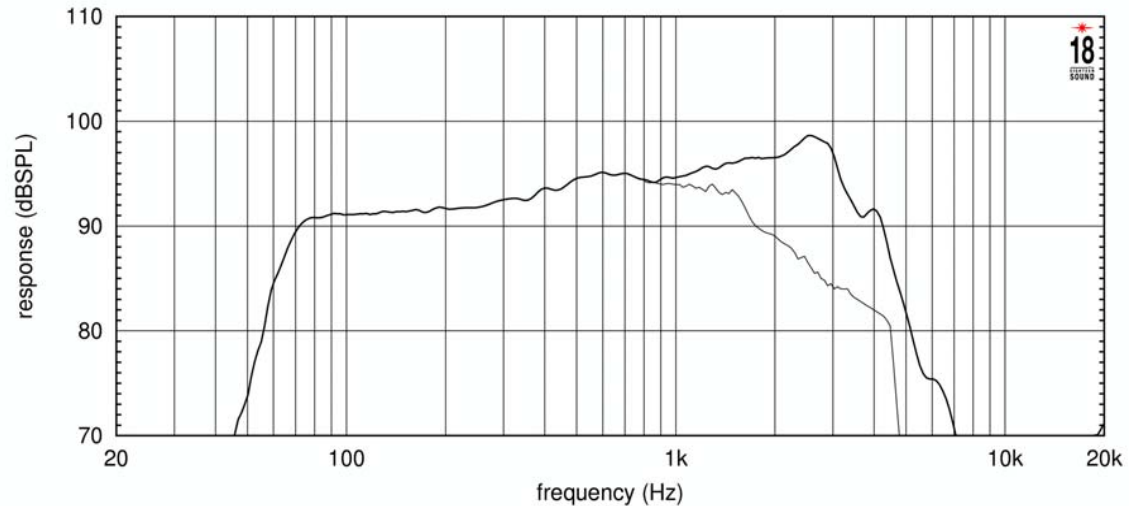
(5) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.

(6) Power compression represents the loss of sensitivity for the specified power, measured from 70 to 1000Hz after a 5 min pink noise preconditioning test at the specified power.

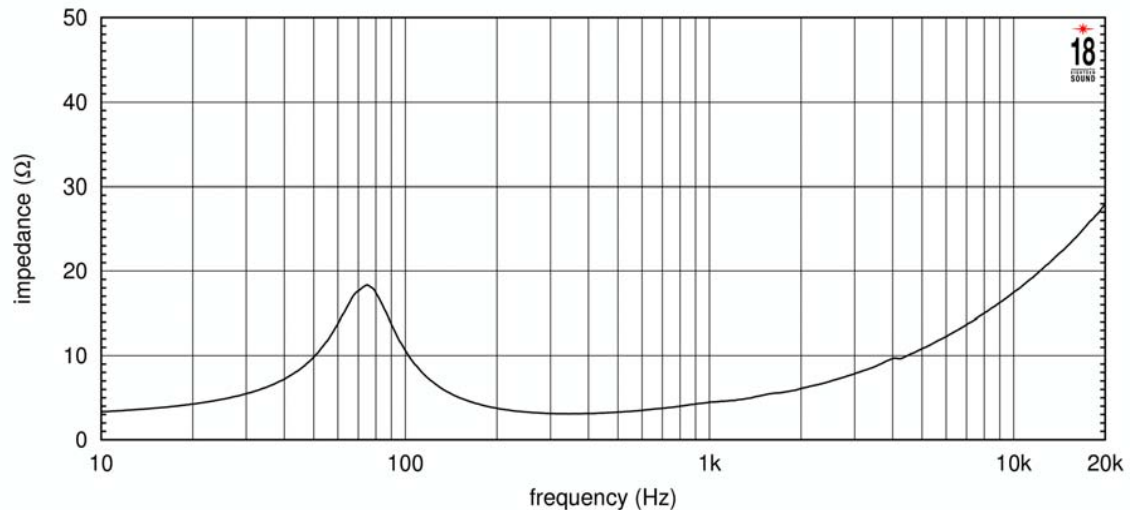
(7) Thiele - Small parameters are measured after the test specimen has been conditioned by 1 hour 20 Hz sine and represent the expected long term parameters after a short period of use.

(9) Linear Mat. Xmax is calculated as:  $(Hvc-Hg)/2 + Hg/4$  where Hvc is the coil depth and Hg is gap depth.

FREQUENCY RESPONSE MADE IN 25 LT. ENCLOSURE TUNED AT 65 Hz IN FREE FIELD (4π) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER, THE THIN LINE REPRESENTS 45° OFF AXIS FREQUENCY RESPONSE



## FREE AIR IMPEDANCE CURVE



Versione: 02/12/2011