



# 15MB700

## Very High Output MB Ferrite Transducer

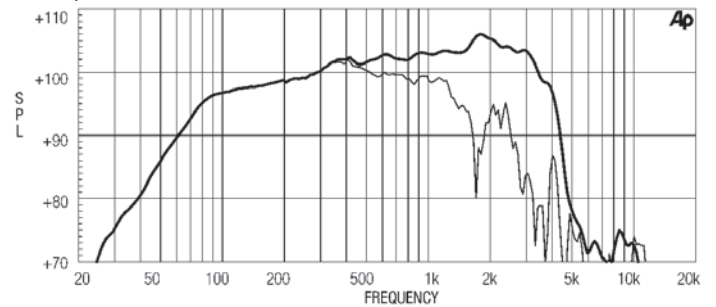
103 dB SPL 1W / 1m average sensitivity  
 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)  
 400 W AES power handling  
 Excellent transient response  
 Additional cone damping treatment  
 Improved heat dissipation via unique basket design  
 Suitable for compact two way, multiway and horn loaded midbass applications



### GENERAL SPECIFICATIONS

|                               |                                |
|-------------------------------|--------------------------------|
| Nominal Diameter              | 380 mm (15 in)                 |
| Rated Impedance               | 8 Ohm                          |
| AES Power (1)                 | 400 W                          |
| Program Power (2)             | 600 W                          |
| Peak Power                    | 1200 W                         |
| Sensitivity (3)               | 103 dB                         |
| Frequency Range (4)           | 45 - 4300 Hz                   |
| Power Compression @-10dB      | 0,6 dB                         |
| Power Compression @-3dB       | 2,0 dB                         |
| Power Compression @Full Power | 3,3 dB                         |
| Max Recomm. Frequency         | 3000 Hz                        |
| Recomm. Enclosure Volume      | 75 - 130 lt. (2,65 - 4,6 cuft) |
| Minimum Impedance             | 5,9 Ohm at 25°C                |
| Max Peak To Peak Excursion    | 23 mm (0,88 in)                |

### FREQUENCY RESPONSE CURVE

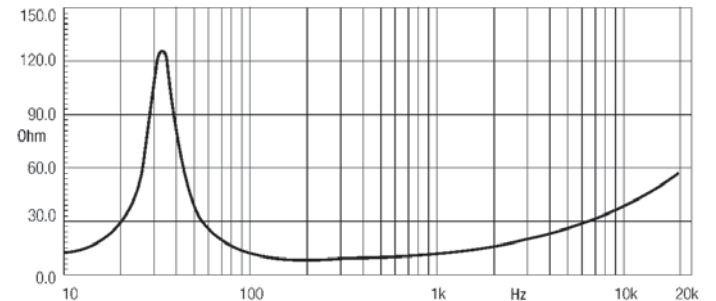


FREQUENCY RESPONSE CURVE OF 15MB700 MADE ON 125 LIT. ENCLOSURE TUNED 50HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE

### THIELE SMALL PARAMETERS (5)

|                                    |                              |
|------------------------------------|------------------------------|
| Fs                                 | 42 Hz                        |
| Re                                 | 5 Ohm                        |
| Sd                                 | 0,085 sq.mt. (131,75 sq.in.) |
| Qms                                | 4,6                          |
| Qes                                | 0,31                         |
| Qts                                | 0,29                         |
| Vas                                | 202 lt. (7,14 cuft)          |
| Mms                                | 73 gr. (0,16 lb)             |
| BL                                 | 17,6 Tm                      |
| Linear Mathematical Xmax (6)       | ± 5,5 mm (± 0,22 in)         |
| le (1kHz)                          | 1,2 mH                       |
| Ref. Efficiency 1W@1m (half space) | 98,9 dB                      |

### FREE AIR IMPEDANCE MAGNITUDE CURVE



FREE AIR IMPEDANCE MAGNITUDE CURVE

### MOUNTING INFORMATION

|                                |  |
|--------------------------------|--|
| Overall diameter               | 387 mm (15,23 in)                            |
| N. of mounting holes and bolt  | 8  |
| Mounting holes diameter        | 7,15 mm (0,28 in)                            |
| Bolt circle diameter           | 370 - 371 mm (14,55 - 14,6 in)               |
| Front mount baffle cutout Ø    | 353 mm (13,90 in)                            |
| Rear mount baffle cutout Ø     | 357 mm (14,06 in)                            |
| Total depth                    | 167,5 mm (6,59 in)                           |
| Flange and gasket thickness    | 19,5 mm (0,76 in)                            |
| Net weight                     | 8,3 kg (18,3 lb)                             |
| Shipping weight                | 9,4 kg (20,75 lb)                            |
| CardBoard Packaging dimensions | 405 x 405 x 214 mm (15,94 x 15,94 x 8,43 in) |

### NOTES

- 1) AES power is determined according to AES2-1984 (r2003) standard
- 2) Program power rating is measured in 125 lit enclosure tuned 50Hz using a 40 - 400Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
- 3) 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 2,83V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for (1) above.
- 4) 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.
- 5) Thiele - Small parameters are measured after the test specimen has been conditioned by 400 W AES power and represent the expected long term parameters after a short period of use.
- 6) Linear Math. Xmax is calculated as  $(HvcHg)/2 + Hg/4$  where Hvc is the coil depth and Hg is the gap depth.