

Electro Mechanical Specifications

Nominal Chassis Diameter	10 inch/250 mm
Impedance	8 Ω ¹
Power Handling	300 (A.E.S.) ²
Maximum Output Continuous/Peak	117/123 dB
Power Compression at Rated Power	4 dB
Usable Frequency Range (-6 dB)	48 Hz-4 kHz
Average Sensitivity (in above range) 1 W/1 m	96 dB ³
Resonance	54 Hz
Moving Mass inc. Air Load	39 grams
BL Product (Newtons/amp)	16.2
Minimum Impedance (Zmin)	7 Ω
Effective Piston Diameter	8.19 inch/208 mm
Flux Density	1.24 Tesla
Magnetic Gap Depth	0.31 inch/8 mm
Coil Winding Height	0.61 inch/15.5 mm
Voice Coil Length	57.8 feet/17.6 m
Magnet Weight	78 oz/2.2 kg
Maximum Cone Displacement	0.39 inch/10 mm
Peak Displacement Volume of Cone, Vd	0.260 litres
Voice Coil Diameter	2.5 inch/63.7 mm

Thiele & Small Parameters

Resonant Frequency fs	54 Hz
D.C Resistance Re	5.6 Ω
Qts	0.268
Qes	0.283
Qms	5.17
Mms (grams)	39
Cms (microns per Newton)	223
BL Product	16.2 Tesla metres
Vas	36 litres
Reference Efficiency no	1.93 %
Piston Area Sd	0.034 m ²
Xmax	3.75 mm

Mounting Information

Overall Diameter	11.16"/283.4 mm
Width Across Flats	10.343"/262.7 mm
Flange Thickness	0.305"/7.8 mm
Baffle Hole Diameter, Front Mount	8.97"/228 mm
Gasket Supplied	Rear
Fixing Holes	4 x 0.218" diam on 10.625 PCD 4 x 5.5 mm diam on 270 PCD
Depth	4.33"/110 mm
Weight	14.1 lb/6.4 kg
Recommended Enclosure Volume	0.53-1.41 cu ft/15-40 litres
Volume Displaced by Driver	0.067 cu ft/1.9 litres
Shipping Weight	15.7 lb/7.1 kg
Packing Carton Dimensions	288 x 288 x 195 mm

Crescendo 10MB

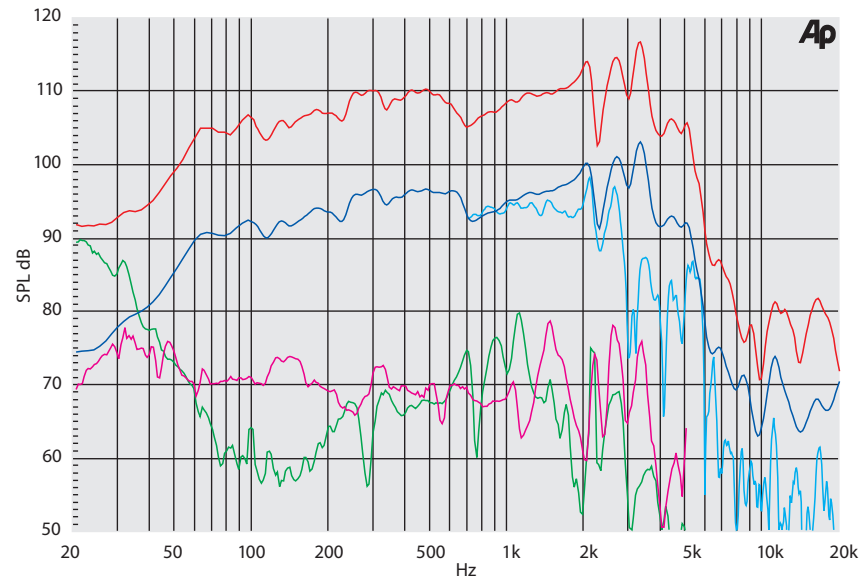
The Crescendo mid bass drivers are intended for use in two-way ported enclosures, such as the classic bass driver plus horn tweeter or compression driver format. All feature die-cast chassis with long throw motor systems and high linearity suspensions allowing solid bass reproduction at high-power levels. The drivers exhibit smooth frequency responses to give a balanced tonal characteristic when properly matched to appropriate high-frequency drivers. The 10MB is designed for use in 15 to 40 litre ported enclosures and features a 2.5-inch voice coil, 300 Watt power handling and 96 dB sensitivity. It can also be used in an ultra compact top cab, along with a subwoofer.



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Frequency Response Data



Data measured using swept sine wave input on an open baffle of dimensions 2.5 x 3.7 metres with a microphone distance of 1 metre.

— Fundamental 10 % Power
— Fundamental on-axis 1 W
— Fundamental 45° off-axis 1 W
— 2nd Harmonic 10 % Power
— 3rd Harmonic 10 % Power

1 Please inquire about alternative impedances.

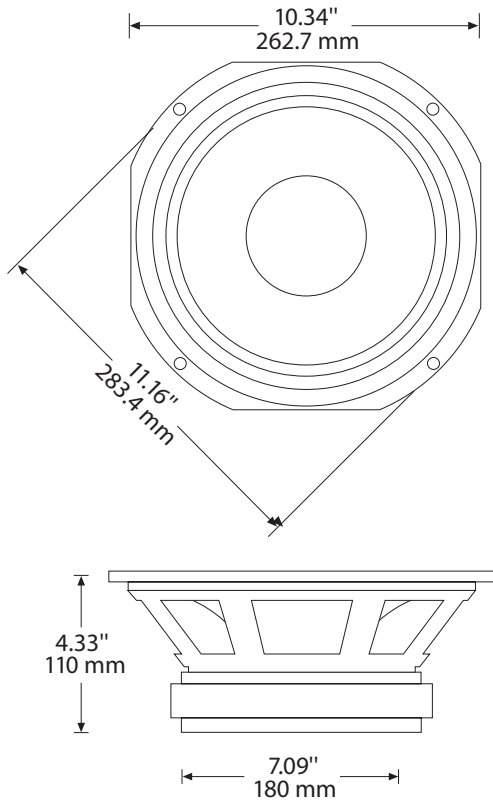
2 A.E.S. power handling test. Pink noise bandpass filtered at 12 db per octave with cutoff frequencies of 30 Hz and 300 Hz. Driver mounted in free air, test signal applied at rated power for two hours.

3 The average output across the usable frequency range when applying 1 W/1 m into the nominal impedance. ie: 2.83 V/8 ohms, 4 V/16 ohms.

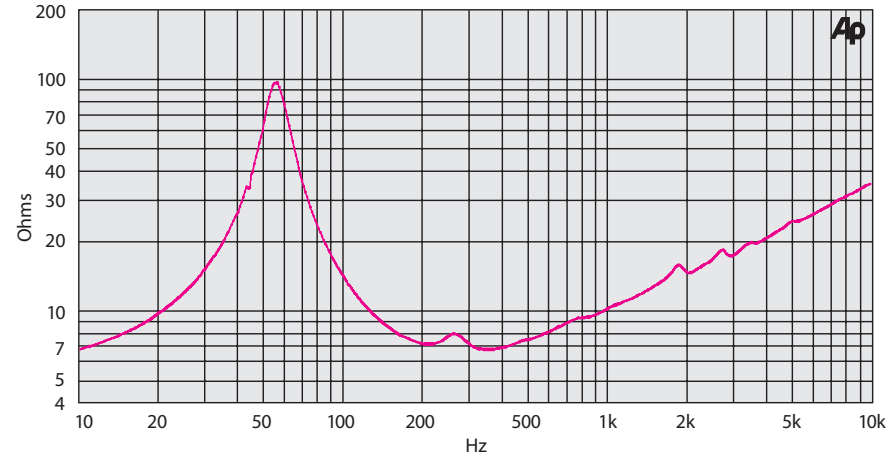
Fane response curves are measured under the following conditions: All speakers are tested at 1 W/1 m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1 m from wall/baffle | 2 ft. X 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Materials of Construction

- | | |
|---------------------------|--|
| Coil Former | Fibreglass |
| Voice Coil | Aluminium |
| Magnet Material | Ferrite |
| Chassis | Die-cast Aluminium |
| Cone | Curvilinear Paper |
| Surround/Edge Termination | Polyvinyl Damped Half Roll Linen |
| Dust Dome | Solid Paper |
| Connectors | Push-button Spring Terminals |
| Polarity | Positive Voltage at Red Terminal Causes Forward Motion of Cone |



Impedance



Computer Predicted Bass Response

