



# FC-123F01

SUB BASS DRIVER

**12" / 304.8 mm**

CHASSIS DIAMETER

**1000 W**

PROGRAM POWER

**45 Hz - 3 kHz**

FREQUENCY RESPONSE

**3" / 76.2 mm**

VOICE COIL

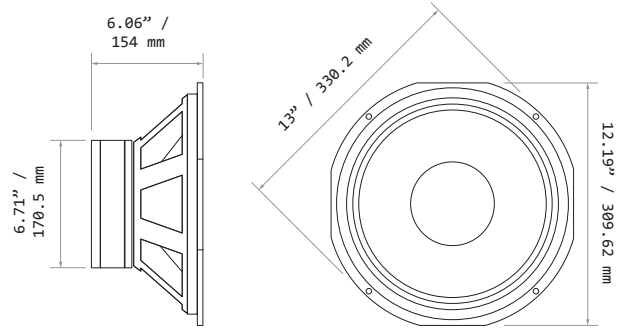
**97.5 dB**

SENSITIVITY (1W/ 1m)

**8.5 mm Xmax**

MAX. LINEAR EXCURSION

- + Versatile unit ideal for two-way, ported enclosure designs of 25-70 Litres.
- + Gives solid bass reproduction at high-power levels.
- + Specially formulated cone pulp provides well balanced and warm tonal character.
- + Long throw motor structure with high-linearity suspension system.
- + 3-Inch Copper voice coil.



## GENERAL SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Nominal Impedance <sup>(1)</sup>	8 Ohm
Minimum Impedance Zmin	7.2 Ω
AES Power Handling <sup>(2)</sup>	500 W (A.E.S.)
Program Power	1000 W
<b>Peak Power</b> (6dB Crest Factor)	<b>2000 W</b>
Frequency Range <sup>(3)</sup>	45 Hz - 3 kHz
<b>Sensitivity</b> (1W/ 1m)	<b>97.5 dB</b>
<b>Magnet Material</b>	<b>Ferrite</b>
Magnet Weight	42.32 oz
Magnetic Gap Depth	0.35" / 9 mm
Flux Density	1 Tesla
Former Material	Glass Fibre
Voice Coil Material	Copper
Coil Winding Height	0.79" / 20 mm
<b>Voice Coil Diameter</b>	<b>3" / 76.2 mm</b>
Cone/ Dust Dome Material	Paper / Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen

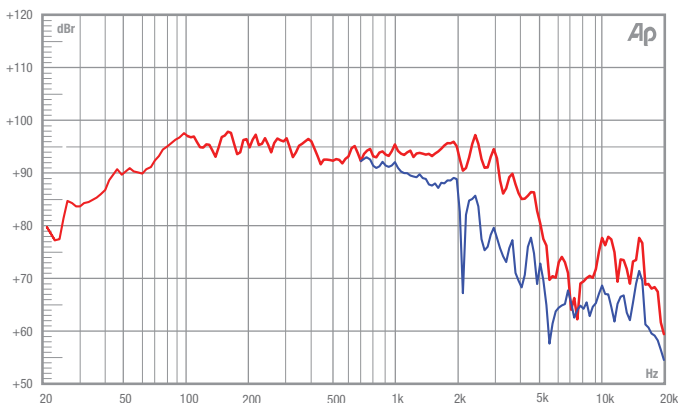
## TECHNICAL & THIELE SMALL PARAMETERS

Fs	34 Hz
Re	5.4 Ω
Qms	4.32
Qes	0.249
Qts	0.235
Vas	110 Litres
Vd	0.45 Litres
Cms	0.276 mm/N
Bl	18.3 T/m
Mms	63 g
Xmax	8.5 mm
Sd	530 cm <sup>2</sup>
Efficiency	2.4 %
Le (1k Hz)	2.26 mH
EBP	136.55 Hz
Effective Piston Diameter	10.3" / 261.62mm
Rec. Enclosure Volume	25 - 50 Litres

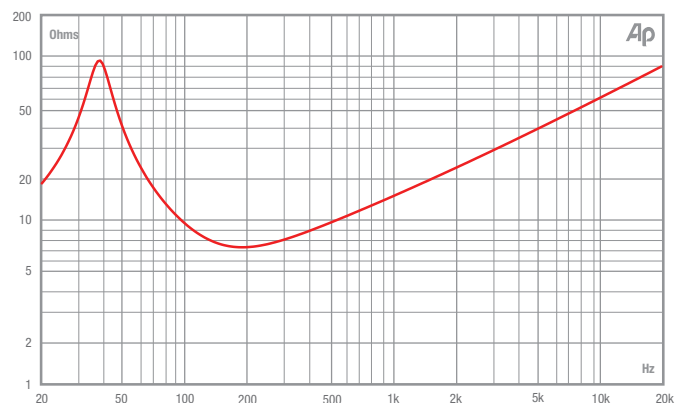
## MOUNTING / SHIPPING INFORMATION

Overall Diameter	13" / 330.2 mm
Width Across Flats	12.19" / 309.62 mm
Depth	6.06" / 154 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	11.03" / 280.16 mm
Baffle Hole Diameter R/M	10.13" / 257.30 mm
<b>Chassis Material</b>	<b>Die-cast Aluminium</b>
Gasket Supplied	Front & Rear
Outer Fixing Holes	4x ø 5.5 mm on 317.5 mm PCD
Inner Fixing Holes	N/A
Connectors <sup>(4)</sup>	Push-button Spring Terminals
<b>Weight</b>	<b>16.76 lb / 7.6 Kg</b>
Shipping Weight	18.08 lb / 8.2 Kg
Packing Carton Dimensions (mm)	(W) 330 (D) 330 (H) 170

## FREQUENCY RESPONSE DATA<sup>(3)</sup>



## IMPEDANCE



(1) Please enquire about alternative impedances.

(2) A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 45 Hz and 450 Hz. Driver mounted in free air, test signal applied at rated power for two hours.

(3) Half space response measured in a 975 Litre sealed box. Blue line = fundamental 45° off-axis. Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

(4) Positive voltage at red terminal causes forward motion of cone.