

# FC-153F01

### BASS DRIVER



**15" / 381 mm**

CHASSIS DIAMETER

**400 W (A.E.S.)**

AES POWER HANDLING

**40 Hz - 4.5 kHz**

FREQUENCY RESPONSE

**3.0" / 76.2 mm**

CCAW - INSIDE/ OUTSIDE WINDINGS VOICE COIL

**100 dB**

SENSITIVITY (1W/ 1m)

**7.5 mm Xmax**

MAXIMUM LINEAR EXCURSION

- Versatile unit for 2 - way ported enclosures.
- Dynamic, smooth detailed bass reproduction.
- Extended frequency range usable to 4.5 kHz.
- Copper shorting ring.
- Inside outside CCAW windings.
- Waterproof cone.
- Optimised for warm tonal character.

The FC-153F01 is intended for use in two-way ported enclosures. The unit features a 3 inch 'sandwich' inside and outside windings voice coil driven by a non-inductive motor system which dramatically reduces third-harmonic and intermodulation distortion. The cone membrane is state of the art material that allows the driver to combine high sensitivity with the structural integrity required to produce undistorted frequencies at high output levels. The mechanical and electrical properties of the unit have been carefully optimised to allow extended low frequency output up to its rated power handling of 400 Watts (A.E.S) continuous, with peak power handling in excess of 1600 Watts. The unit offers excellent extension up to 4.5 kHz. The driver exhibits an average sensitivity of 100 dB working band and is best used in ported enclosures of 45 to 90 Litres.

### ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 mm
Impedance	8 Ohm
Power Handling	400 W (A.E.S.)
Peak Power (6dB Crest Factor)	1600 W (A.E.S.)
Usable Frequency Range -6dB	40 Hz - 4.5 kHz
Sensitivity (1 w - 1 m)	100 dB
Moving Mass inc. Air Load	74 grams
Minimum Impedance Zmin	7.3 Ω
Effective Piston Diameter	13.00" / 330.20 mm
Magnet Weight	93 oz
Magnetic Gap Depth	0.35" / 9.00 mm
Flux Density	1.2 Tesla
Coil Winding Height	0.75" / 19.00 mm
Voice Coil Diameter	3.0" / 76.2 mm

### MOUNTING / SHIPPING INFORMATION

Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387.35 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	13.85" / 351.79 mm
Baffle Hole Diameter R/M	14" / 355.6 mm
Gasket Supplied	Front & Rear
Outer Fixing Holes	4x Ø 7.1 mm on 393.7 mm PCD
Inner Fixing Holes	8x Ø 7.1 mm on 370 mm PCD
Depth	6.50" / 165.10 mm
Weight	17.86 lb / 8.10 kg
Recommended Enclosure Volume	40 - 65 Litres
Shipping Weight	19.50 lb / 8.85 kg
Packing Carton Dimensions	(W) 440 (D) 440 (H) 220 mm

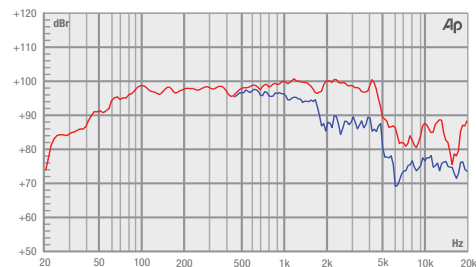
### THIELE SMALL PARAMETERS

FS Hz	40 Hz
RE Ohms	5.5 Ω
Qms	6.550
Qes	0.320
Qts	0.310
Vas Ltr	220.00 Litres
Vd Litres	0.650 Litres
CMS (mm/N)	0.212 mm/N
BL T/m	18 T/m
Mms (grms)	74 grams
Xmax (mm)	7.5 mm
Sd (cm²)	855 cm²
Efficiency %	4.420%
Le (1k Hz)	1.42 mH
EBP	125.00 Hz

### MATERIALS OF CONSTRUCTION

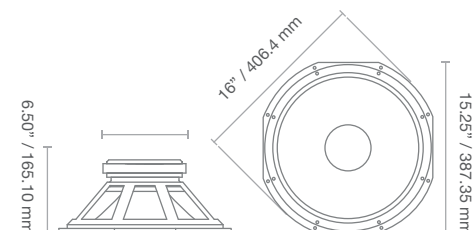
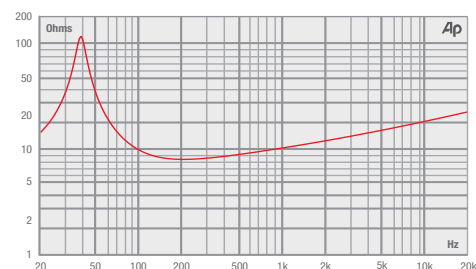
Former Material	Glass Fibre
Voice Coil	CCAW - Inside/ Outside Windings
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Half Roll Linen
Dust Dome	Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

### FREQUENCY RESPONSE DATA†



† Half space response measured in a 975 Litre sealed box.

### IMPEDANCE



\* Please enquire about alternative impedances.

\* 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.

\* 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.