



# EW 638

Elite Woofer,  
 Ø 6", Ø 3" voicecoil, 8Ω



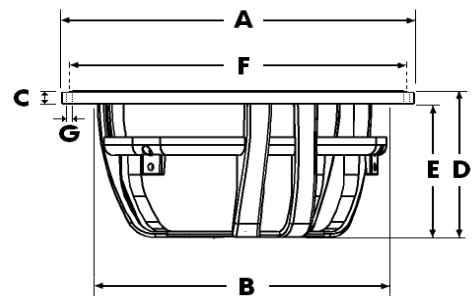
## SPECIFICATIONS

General Data		
Overall Dimensions	<b>DxH</b>	160mm(6.3")x69mm(2.71")
Nominal Power Handling (DIN)	<b>P</b>	150W
Transient Power 10ms		1000W
Sensitivity 2.83V/1M		87dB SPL
Frequency Response		See graph
Cone Material		Damped Polymer Composite
Net Weight	<b>Kg</b>	1.2
Electrical Data		
Nominal Impedance	<b>Z</b>	8Ω
DC Resistance	<b>Re</b>	5Ω
Voice Coil Inductance @ 1KHz	<b>LBM</b>	0.52mH
Voice Coil and Magnet Parameters		
Voice Coil Diameter	<b>DIA</b>	75mm
Voice Coil Height		18mm
HE Magnetic Gap Height	<b>HE</b>	6mm
Max. Linear Excursion	<b>X</b>	± 6mm
Voice Coil Former		Aluminum
Voice Coil Wire		Hexatech™ Aluminum
Number Of Layers		2
Magnet System Type		Hybrid™ Neodymium/Ferrite
B Flux Density	<b>B</b>	0.85 T
BL Product	<b>BXL</b>	7.05 N.A
T-S Parameters		
Suspension Compliance	<b>Cms</b>	1.062 mm/N
Mechanical Q Factor	<b>Qms</b>	1.71
Electrical Q Factor	<b>Qes</b>	0.39
Total Q Factor	<b>Qts</b>	0.32
Mechanical Resistance	<b>Rms</b>	2.26 Kg/s
Moving Mass	<b>Mms</b>	16 g
Eq. Cas Air Load (liters)	<b>VAS</b>	20.28 Lt
Resonant Frequency	<b>Fs</b>	39 Hz
Effective Piston Area	<b>SD</b>	119 cm <sup>2</sup>

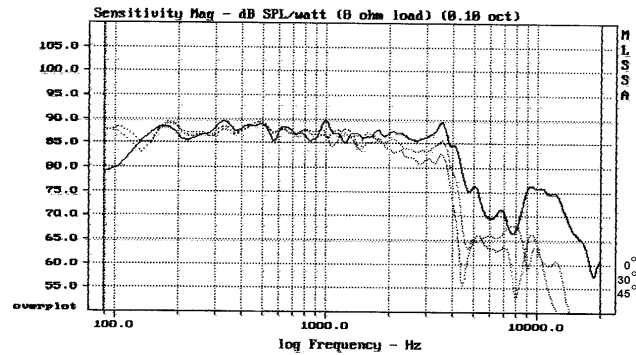
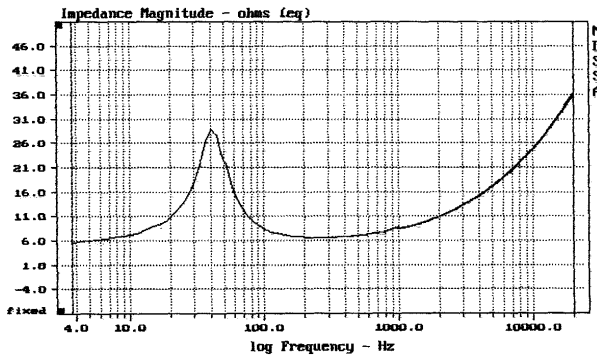
## FEATURES

- \* Uniflow™ Aluminum diecast chassis
- \* Hybrid™ Neodymium/Ferrite magnet system
- \* 3" Large Hexatech™ Aluminum voice coil
- \* High power handling
- \* High Xmax, Low Qts, Low Fs

## Unit Dimensions



- A** - Overall diameter 160mm
- B** - Cut out diameter 140mm
- C** - Flange thickness 6mm
- D** - Overall height 69mm
- E** - Basket depth 63mm
- F** - Mounting holes location diameter 152mm
- G** - 6 Mounting holes, at 60° interval, inner hole diameter Ø 4.2mm



Measured on IEC baffle using Bruel & Kjaer 3144 model microphone.

Morel operate policy of continuous product design improvement, consequently specifications are subject to alteration without prior notice.