**Product Details**

**Morel MW 1254 Classic Series 12" Paper / Carbon Fiber Cone Subwoofer**

Morel's innovative engineering on the MW 1254 results in an extraordinary combination of audiophile quality bass and high power output for a great value. Featuring a gigantic 5.1” Hexatech external voice coil (hexagonal-shaped aluminum wire), the MW 1254 was created for accurate music reproduction, superior durability, and high power handling. A highly efficient double magnet ferrite motor maximizes the magnetic field to apply as much force to the coil as possible. The cone is a unique hybrid of carbon fiber composite laminated on paper to achieve an impressive mix of rigidity and damping for extraordinary musicality. Holding everything together is a solid stamped steel frame that provides extensive venting for the coil (under spider and pole piece venting) for minimal compression and quiet operation.

The MW 1254 is optimized to deliver powerful low frequencies when used in small enclosures. This driver is suitable for use in both hi-end home and car audio systems.

**Product Specifications**

* Nominal Diameter12"
* Power Handling (RMS)500 Watts
* Power Handling (max)1,500 Watts
* Impedance4 ohms
* Frequency Response20 to 700 Hz
* Sensitivity87 dB 1W/1m
* Voice Coil Diameter5.1"

**Thiele-Small Parameters**

* Resonant Frequency (Fs)30.9 Hz
* DC Resistance (Re)2.95 ohms
* Voice Coil Inductance (Le)1.15 mH
* Mechanical Q (Qms)2.34
* Electromagnetic Q (Qes)0.54
* Total Q (Qts)0.44
* Compliance Equivalent Volume (Vas)2.11 ft.³
* Mechanical Compliance of Suspension (Cms)0.202 mm/N
* BL Product (BL)11.81 Tm
* Diaphragm Mass Inc. Airload (Mms)131g
* Maximum Linear Excursion (Xmax)10 mm
* Surface Area of Cone (Sd)457.5 cm²

**Materials of Construction**

* Cone MaterialCarbon Fiber Composite
* Surround MaterialRubber
* Voice Coil Wire MaterialAluminum
* Voice Coil FormerAluminum
* Basket / Frame MaterialSteel
* Magnet MaterialFerrite

**Mounting Information**

* Overall Outside Diameter12"
* Baffle Cutout Diameter10.375"
* Depth6"
* Bolt Circle Diameter11.5"
* # Mounting Holes6

**Optimum Cabinet Size (determined using BassBox 6 Pro High Fidelity suggestion)**

* Sealed Volume1.2 ft.³
* Sealed F358 Hz
* Vented Volume2.2 ft.³
* Vented F332 Hz

**Morel MW 1254 Classic Series 12" Paper / Carbon Fiber Cone Subwoofer**

* BrandMorel
* ModelMW 1254
* Part Number297-138
* UPC848864043685
* Product Category[Woofers](https://www.parts-express.com/cat/woofers/15)
* Unit of MeasureEA
* Weight16.05 lbs.