



High Fidelity

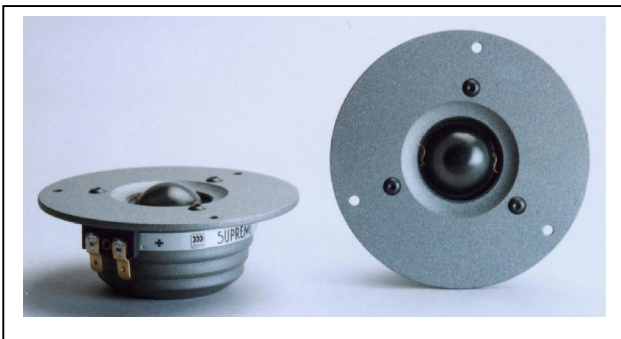
Supreme Range

SUPREME 110

High Performance Tweeter

FEATURES:

- Underhung Configuration for Higher Performance and Lower Distortion.
- Linear Motion
- Low Distortion
- High Sensitivity
- Fast Transient Response
- High Definition
- Flat Neodymium Motor with High Magnetic Power
- Packed in Matched Pair



Specifications – Supreme 110		
APPLICATION INFORMATION		
Overall Dimensions		? 110mm (4.33") x 50mm (2")
Face plate Thickness		3.2mm (1/8")
Cut Out Diameter		? 85mm (3.37")
Nominal Power Handling (DIN) Crossover at 2,200 Hz	P	220 W / 12dB 120 W / 6dB
Transient Power – 10 ms		1000W
Nominal Impedance	Z	8Ω
Sensitivity 1W/1M		91.5 dB
Frequency Response		1400-22000HZ (Limit 300–50,000 HZ)
Resonant Frequency	FS	680 HZ ±10%
VOICE COIL		
Voice Coil Diameter	?	28mm (1 1/8")
Voice Coil Height		2.7mm (0.106")
Voice Coil Former		Aluminum
Voice Coil Wire		Hexatech Aluminum
Number of Layers		2
DC Resistance	RE	5.2Ω
Voice Coil Inductance	LBM	0.09 mH
MAGNET SYSTEM		
Magnet System Type		Neodymium Flat Pancake Design
Magnet Gap Height	HB	4.2mm (0.16")
OTHERS		
Cone / Dome Material		Acuflex™ Coated Soft Dome
Net Weight	KG.	0.52

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

SUPREME: Sublime Sound from an Acoustic Innovation Innovative engineering and an advanced approach to acoustic construction makes SUPREME **the** superior high performance tweeter. With an acoustic construction based on the underhung configuration method, SUPREME's voice coil moves in a significantly higher magnetic field and remains there at all times during operation. As a result, SUPREME provides a **linear excursion of the coil in the magnetic field; eliminates intermodulation distortion created by non-linear excursion; and considerably improves low frequency reproduction.**

SUPREME: Constructed to Meet Your Need for Superior Sound

SUPREME's **flat, pancake type motor** construction is based on a **Neodymium magnet with a large, level diameter measuring a mere 4mm in height.** The combination of its configuration and high magnetic power makes it the ideal tweeter for high-end systems. SUPREME's **voice coil** – Morel's classic Aluminum Hexatech voice coil and soft Acuflex™ acoustic coated dome – is 28mm in diameter. Morel's unique coating preserves dome elasticity, resulting in **improved internal acoustic damping, dome resonance prevention** and possible deformation at high levels. Meanwhile, the **large voice coil** provides a radiating dome surface **25% larger**

than conventional 1-inch domes, thereby increasing power-handling capabilities and enabling a low 680Hz resonance point, as well as a wider frequency response.

The end result is a tweeter using an exceedingly short center pole and an enlarged diameter for venting. With SUPREME you benefit from **a reflection-free construction, in addition to perfect acoustic loading between the cavity under the dome and the rear chamber.** SUPREME's rear chamber is made out of metal designed for a high rigidity construction that breaks down standing waves and prevents vibrations.

SUPREME: Maximum Flexibility for Speaker System Designers
SUPREME's faceplate is constructed from one-piece machined aluminum. With the **dome located outside the faceplate's center,** speaker system designers benefit from maximum flexibility. For optimal performance, all you have to do is simply rotate SUPREME on its axis in order to adjust and choose your desired acoustic center (between tweeter and woofer).

SUPREME: Matched Pairs & A Flange Type For Each Market
SUPREME tweeters are individually tested and match paired. A measurement document for each pair is included in the packaging. To suit varying market needs, SUPREME has two flange types: SUPREME 110, designed for manufacturers and the professional market; and SUPREME 130, for hobbyists as well as manufacturers.



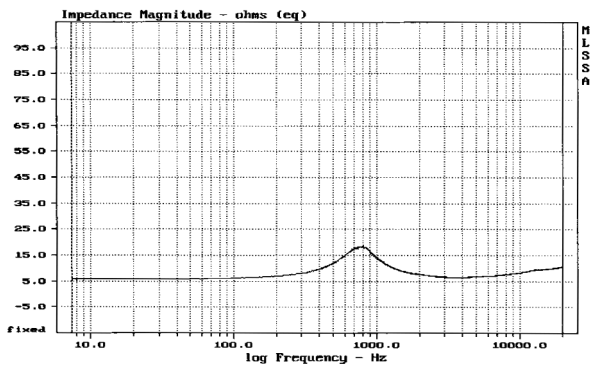
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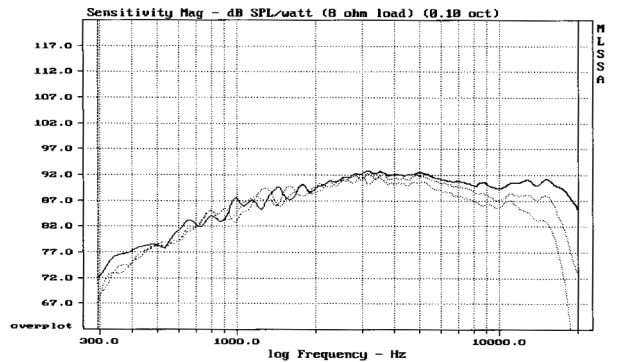
Range

Supreme 110

IMPEDANCE MAGNITUDE



SENSITIVITY MAGNITUDE

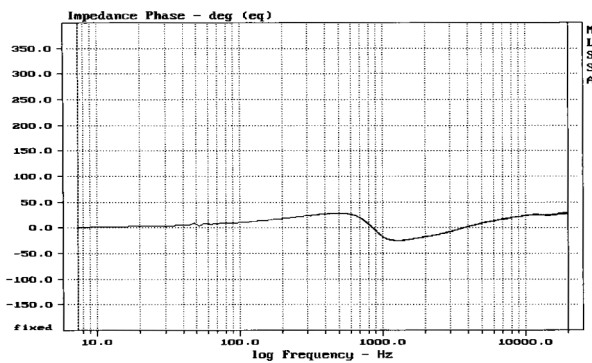


Response Curve: _____ On Axis
 _____ 30° Off Axis
 _____ 45° Off Axis

Measured on IEC Baffle: Free Air/1m.

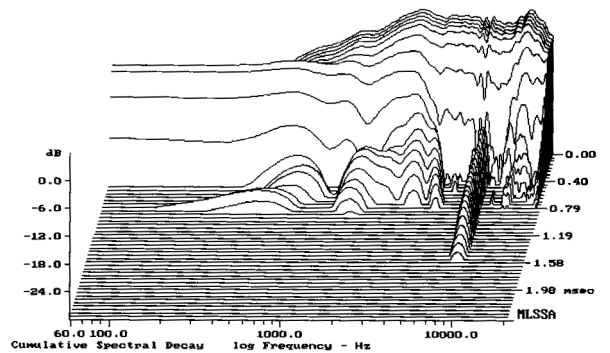
Mic. Type: B&K 4133

IMPEDANCE PHASE



CUMULATIVE SPECTRAL DECAY

Cumulative Spectral Decay



Log Frequency - HZ

Distributed by:

morel (IL) ltd.
 17 Hamazmera street,
 P.O. Box 2007
 Ness Ziona 70400 Israel
 Tel. No. ++972-8-9301161
 Fax. No. ++972-8-9301312
 E-mail: info@morel.co.il
www.morelhifi.com