



ECP-M6 EDITION 2 – THE EVOLUTION OF A LOUDSPEAKER LEGEND

The 16.5 cm/6.5" 2-way component system ECP-M6 Edition 2 is the worthy successor to the legendary ECP-M6 from the MONOLITH series and features important technological highlights: The new M25TX tweeter with a 25 mm aluminum diaphragm delivers precise and detailed sound up to 40 kHz. The woofer features a new aluminum-paper sandwich diaphragm and comes in the new EMPHASER FlowMax basket design. With the ECP-M6 Edition 2, anything is possible: listening to fine musical details at low volumes or experiencing powerful sound pressure levels for an exhilarating experience.

THE WOOFER

The high precision and natural sound of the ECP-M6 Edition 2 are due to the new aluminum-paper sandwich diaphragm. It combines high damping and stiffness with the direct transient response typical of hard diaphragms, enabling extremely detailed music reproduction. The diaphragm thickness is optimized to provide both the stability for intense bass attacks and the necessary lightness for precise and natural sounding mids. The durable M-design butyl surround ensures that even at high levels and significant diaphragm excursions, the ECP-M6 Edition 2 maintains its precise reproduction. The clean, punchy bass foundation and impressive sound pressure capabilities are made possible by the powerful 100 x 15 mm strontium ferrite magnet, the high-performance 30 mm voice coil, and the 6 mm thick, precision-milled pole plate of the woofer. The carefully selected components are housed in the minimalistic EMPHASER FlowMax aluminum die-cast basket. Its very open structure with delicate struts provides maximum space for the rear-radiated sound and minimizes

unwanted reflection surfaces that could affect sound quality. Despite its delicate design, the sophisticated basket construction offers enormous stability. Another innovation is the EMPHASER screw terminal: Although very robust, it requires minimal space and ensures a secure signal transmission with solid hexagon screws and gold-plated contact surfaces.

THE TWEETER

The new ECP-M25TX tweeter with a 25 mm aluminum diaphragm delivers precise and detailed sound up to 40 kHz. The dome geometry provides a uniform directional pattern, ensuring excellent sound in various installation scenarios. In addition to the low weight of the cone, surround, and voice coil, the conscious omission of ferrofluid contributes to the tweeter's lively, spatial, and color-free sound. The protective grille features a very large opening area for high sound transmission and minimal reflection surfaces. The included mounting housing allows installation at two different angles for optimal adaptation to the vehicle's acoustics.

THE CROSSOVER

For increased installation convenience, the crossovers have been split into separate enclosures for the tweeter and the woofer. This allows for easy installation at the original mounting location without the need to run new cables across the vehicle. The crossover components are of high quality to minimize any impact on the music signal. Only air-core coils, film capacitors, and MOX resistors are used in the direct signal path. The two-stage tweeter level adjustment is done via a solid jumper.



Aluminum-paper sandwich diaphragm with M-design surround



EMPHASER FlowMax basket design for minimal reflections



Strong strontium ferrite magnet on precision-milled pole plate



Highest possible ventilation for voice coil and centering spider

KEY FEATURES ECP-M6-E2

WOOFER FEATURES

- 16.5 cm / 6.5" mid-woofer
- EMPHASER FlowMax aluminum die-cast basket
- 100 x 15 mm strontium ferrite magnet
- Aluminum-paper sandwich membrane with inverted aluminum dust cap
- Durable M-design butyl surround for minimal distortion, even at high excursions
- 6 mm thick, precision-milled pole plate with a Faraday copper ring for a stable magnetic field
- Two-layer copper wire voice coil wound on a heat-resistant aluminum voice coil former
- Durable back vented Connex centering spider with woven-in voice coil lead wire
- Gold-plated screw terminal

TWEETER FEATURES

- 25 mm aluminum dome with neodymium magnet
- CNC-milled aluminum housing with low installation depth
- Protective grille with a very large opening area for high sound transmission and minimal reflections
- Surface-mount housing for installation at two different angles

CROSSOVER FEATURES

- 6 dB woofer / 12 dB tweeter filter
- Two-stage tweeter level adjustment
- Glass-fiber epoxy circuit board
- Separate crossover enclosures for tweeter and woofer for maximum installation convenience and to prevent mutual interference of the two signal paths due to closely spaced inductors
- Use of high-quality air-core coils, MKP capacitors, and MOX resistors in the direct signal path
- Gold-plated terminal connections

SCOPE OF DELIVERY

- 2 x woofers
- 2 x tweeters
- 4 x crossovers
- 2 x housing adapters with two mounting angles
- Optional speaker grille: ESP-GR6

ECP-M6-E2	
Nominal power handling	120 W RMS
Nominal impedance	4 ohms
Frequency response	60 Hz – 40 kHz
Sensitivity	90 dB
Mounting diameter	145 mm
Mounting depth	64 mm

PARAMETERS	VALUE	UNIT
Re	3.82	ohms
Le	0.061	mH
Fs	56.3	Hz
Mms	18.194	g
Mmd(Sd)	16.301	g
Rms	1.279	kg/s
Cms	0.440	mm/N
Kms	2.27	N/mm
BL	5.755	N/A
Lambda s	0.048	
Qms	5.029	
Qes	0.742	
Qts	0.647	
Vas	12.382	liters
Sd	141.03	cm ²