

Celestion Debuts the New CDX1-1412 Ultra-Compact High Frequency Compression Driver

New Neodymium Magnet Driver is the Latest in the Line of 1-inch exit High Frequency Compression Drivers



Celestion, a supplier of professional loudspeakers and compression drivers for sound reinforcement applications introduces the new CDX1-1412 1" exit, neodymium magnet high frequency compression driver. The unit's ultra-compact size makes it ideal for small two-way cabinet designs and other highly portable applications, at a very attractive price point.

The CDX1-1412 is the latest of Celestion's high frequency compression drivers, and features plenty of output for a driver this size: 35W (AES standard), 70W (Continuous) power rating, and 107dB sensitivity across a 1500 to 20kHz frequency band.

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Designed and developed at Celestion's headquarters in Ipswich, England, the CDX1-1412 features a 34mm/1.4-inch diameter edgewound copper clad aluminium voice coil, and a 25mm/1.-inch exit size. The new driver provides 70-watt power handling and delivers a 107dB sensitivity performance over a frequency range of 1,500-20,000Hz, with a recommended crossover frequency of 2,000Hz. The unit features a single piece Polyimide film diaphragm and surround, and is fabricated using a rigid engineering thermoplastic with a standard 2xM5 bolt fitting. Acoustic foam is utilised to minimise internal air cavity resonances, dampening unwanted reflections from the inside of the cover.

"With a diameter of only 60mm, the CDX1-1412 is extremely compact for a one inch exit compression driver, enabling the device to be fitted into small cabinets where space is critical, or to be used with multiple driver horns," explains Celestion Product Marketing Manager Ken Weller. "It has highly optimised neodymium magnet assembly and a single piece polyimide diaphragm which means the driver rates at an impressively high 35-watt power handling, measured to AES standard. This makes the device a serious contender for a range of fixed install and compact array applications."

Specifications

Power rating: 35W
Continuous power rating: 70W
Nominal impedance: Available in 8 Ω & 16 Ω
Sensitivity: 107dB
Frequency: 1,500-20,000Hz
Recommended min. crossover: (12dB/oct) 2,000Hz
Magnet type: Neodymium
Voice coil diameter: 34mm/1.4in
Voice coil material: Copper clad aluminium
Diaphragm & Surround material: Polyimide

Width: 60mm/2.4in
Depth: 34.5mm/1.4in
Unit weight: 0.36kg/0.8lb
Fitting: Flange (2x M5 holes on 52mm/2 .05in PCD)
Throat exit: 25mm/1in

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