

One-Inch Compression Drivers

By GeorgePetersen

The one-inch exit compression driver rose to prominence nearly 70 years ago, implemented in classic products such as Altec Lansing's 604 coaxial and the venerable Voice of the Theatre A-7. With the need for higher power handling, 1.4- and 2-inch drivers since became popular choices, although 1-inch designs remain a standard, as an MF/HF driver in smaller speakers and for upper-MF reproduction in larger multiway and line array systems.

In surveying the 1-inch HF driver market we found models to suit nearly any budget (prices given are street or MAP) and various and horn mounting options — both bolt-on and screw-on. Other companies also make 1-inch drivers, but limit their sale mostly as replacement parts for their existing speakers and are not included in this survey. If you require more information, datasheets, etc., each company's URL is included, for more exploring.

B&C DE500

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 50 Watts
Frequency Response: 1 kHz to 18 kHz
Sensitivity: 107 dB SPL, 1W/1m
Impedance: 8 ohms (16-ohm also avail.)
Voice Coil: 1.7-inch
Crossover Frequency: >1.5 kHz
Weight: 3.3 pounds
Mount: 2-hole bolt-on
Price: \$190



bcspeakers.com

BMS 4552ND

Magnet: Neodymium
Diaphragm: Polyester
Power Rating: 80 Watts
Frequency Response: 500 Hz to 20k Hz
Sensitivity: 113 dB SPL, 1W/1m
Impedance: 8 ohms (16 ohm also avail.)
Voice Coil: 1.75-inch
Crossover Frequency: >1 kHz
Weight: 1.8 pounds
Mount: 2-hole bolt-on (3-hole and screw-on avail)
Price: \$299



bmsspeakers.com

Community VHF100

Magnet: Ferrite
Diaphragm: Non-metallic
Power Rating: 50 Watts
Frequency Response: 1.8 kHz to 18 kHz
Sensitivity: 111 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 2-inch
Crossover Frequency: >1.8 kHz
Weight: 5.9 pounds
Mount: 4-hole bolt-on
Price: \$307



communitypro.com

Eighteen Sound ND1090

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 50 Watts
Frequency Range: 1.6 kHz to 20 kHz
Sensitivity: 110 dB (1W/1m)
Impedance: 8 ohm (16 ohm also avail.)
Voice Coil: 1.75-inch
Crossover Frequency: >1.6 kHz
Weight: 2.6 pounds
Mount: 4-hole (M6)
Price: \$200



eighteensound.com

B-52 COMP-4CLB

Magnet: Ferrite
Diaphragm: PETB film
Power Rating: 80 Watts
Frequency Response: 800 Hz to 18 kHz
Sensitivity: 110 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 1.75-inch
Weight: 6 pounds
Mount: Bolt-on (screw-on also avail.)
Price: \$79



b-52pro.com

Beyma CD10Nd

Magnet: Neodymium
Diaphragm: Aluminum
Power Rating: 70 Watts
Frequency Response: 700 Hz to 19k Hz
Sensitivity: 111 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 1.75-inch
Crossover Frequency: >1.2 kHz
Weight: 2.7 pounds
Mount: 2-hole or 3-hole bolt-on
Price: \$179



professional.beyma.com

Celestion CDX1-1720

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 50 Watts
Frequency Response: 800 Hz to 20 kHz
Sensitivity: 107 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 1.75-inch
Crossover Frequency: >1.5 kHz
Weight: 1.4 pounds
Mount: 4-hole bolt-on (M6 thread)
Price: \$189



celestion.com

DAS M-50N

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 50 Watts
Frequency Response: 1 kHz to 20 kHz
Sensitivity: 107 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 1.75-inch
Crossover Frequency: >1 kHz
Weight: 2 pounds
Mount: Screw-on
Price: \$156



dasaudio.com

Electro-Voice DH2T

Magnet: Ferrite
Diaphragm: Titanium
Power Rating: 40 Watts
Frequency Range: 800 Hz to 20 kHz
Sensitivity: 112 dB (1W/1m)
Impedance: 8 ohm (16 ohm also avail.)
Voice Coil: 2-inch
Crossover Frequency: >800 Hz
Weight: 5.5 pounds
Mount: Screw-on
Price: \$214



electrovoice.com

Eminence NSD:2005-8

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 50 Watts
Frequency Response: 1.5 kHz to 20 kHz
Sensitivity: 109 dB SPL, 1W/1m
Impedance: 8 ohms (16-ohm also avail.)
Voice Coil: 2-inch
Crossover Frequency: >1.5 kHz
Weight: 1.7 pounds
Mount: 2-hole bolt-on (screw-on version avail.)
Price: \$110



eminence.com

JBL 2426H

Magnet: Ferrite
Diaphragm: Titanium
Power Rating: 70 Watts
Frequency Response: 800 Hz to 20 kHz
Sensitivity: 110 dB SPL, 1W/1m
Impedance: 8 ohms (2426J 16-ohm also avail.)
Voice Coil: 1.75-inch
Crossover Frequency: >800 Hz
Weight: 9.5 pounds
Mount: 3-hole bolt-on/removable flange for screw-on
Price: \$440



jblpro.com

Peavey RX22


Magnet: Ferrite
Diaphragm: Titanium
Power Rating: 70 Watts
Frequency Response: 500 Hz to 20 kHz
Sensitivity: 111 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 2-inch
Crossover Frequency: >1.2 kHz
Weight: 5.4 pounds
Mount: Screw-on
Price: \$101



peavey.com

Radian 475PB

Magnet: Ferrite V
Diaphragm: Aluminum alloy
Power Rating: 50 Watts
Frequency Response: 800 Hz to 21 kHz
Sensitivity: 111 dB SPL, 1W/1m
Impedance: 8 ohms (16-ohm also avail.)
Voice Coil: 1.75-inch
Crossover Frequency: >800 Hz
Weight: 6.4 pounds
Mount: 2-hole bolt-on
Price: \$270



radianaudio.com

Selenium Pro D220TI

Magnet: Barium Ferrite
Diaphragm: Titanium
Power Rating: 27 Watts
Frequency Response: 1kHz to 21kHz
Sensitivity: 109 dB SPL, 1W/1m
Impedance: 8 ohms (16-ohm also avail)
Voice Coil: 1.7-inch
Crossover Frequency: >2 kHz
Weight: 3.9 pounds
Mount: Screw-on
Price: \$62



jblselenium.com

Faital Pro HF 107

Magnet: Ferrite Ring
Diaphragm: Ketone polymer
Power Rating: 70 Watts (AES)
Frequency Response: 600 Hz to 20kHz
Sensitivity: 109 dB SPL, 1W/1m
Impedance: 8 ohms (16-ohm also avail.)
Voice Coil: 1.73-inch
Crossover Frequency: >1.3k Hz
Weight: 5.8 pounds
Mount: Bolt-on
Price: \$161



faitalpro.com

P. Audio PreNeo-450N

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 80 Watts
Frequency Response: 1 kHz to 20 kHz
Sensitivity: 110 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 1.75-inch
Crossover Frequency: >1.5 kHz
Weight: 4.2 pounds
Mount: 3-hole bolt-on
Price: \$158



paudiothailand.com

PRV Audio D245-NDY

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 50 watts
Frequency Response: 1 kHz to 18 kHz
Sensitivity: 105 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 1.75-inch
Crossover Frequency: >2 kHz
Weight: 1.1 pounds
Mount: 3-hole bolt-on
Price: \$110



prvaudio.com

RCF ND350

Magnet: Neodymium
Diaphragm: Titanium
Power Rating: 50 Watts
Frequency Response: 1.2 kHz to 20 kHz
Sensitivity: 109 dB SPL, 1W/1m
Impedance: 8 ohms
Voice Coil: 1.75-inch
Crossover Frequency: >1.5 kHz
Weight: 2.2 pounds
Mount: 4-hole bolt-on
Price: \$179



rcf.it

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