

# Speaker Building

## Drivers

### RD Series Planar Transducers

The advantages of planar line source transducers are well known, notably a vastly expanded soundstage, improved stereo imaging, controlled vertical dispersion (which eliminates annoying reflections of sound from floors and ceilings), and very low distortion. The drivers are capable of reproducing sound over 7 octaves, with an SPL that drops with distance at half the rate (-3 dB per doubling of distance) of a conventional dynamic driver (-6 dB). The dipole nature of the RD series gives you the flexibility to use them however you want for speakers with great imaging, a wide sweet spot, and effortless musical reproduction.

The long length of the elements not only improves the line-source behavior, but also provides a large radiating surface area for improved lower end response and heat dispersion. The RD75 can be used as low as 150 Hz with the proper crossover. Built on a chassis of heavy-gauge powder-coated steel, they are refined in musical performance yet physically robust and durable. Meanwhile, the purely resistive load of the elements is very easy on amplifiers and simplifies crossover design.



## Bohlender Graebener Corporation

*BG Corp is a world leader in the manufacture of planar magnetic transducers, having models suitable for wide range, midrange, or tweeter applications. These drive units deliver ultimate clarity, detail, accuracy and, above all, the pure pleasure of realizing true sound. Exclusively distributed in the U.S. by Parts Express.*



### RD40 Planar Transducer

**Specifications:** • Power handling: 50 watts RMS/200 watts max • Nominal Impedance: 5 ohms • Re: 5.0 ohms • Frequency range: 150-18,500 Hz • SPL: 88 dB 2.83V/1m • Dimensions: 40" L x 4-11/16" W x 1-1/2" D.

**#264-706** ..... \$695.00 LIST **\$489.50** EACH

### RD48 Planar Transducer

**Specifications:** • Power handling: 70 watts RMS/270 watts max • Nominal Impedance: 4 ohms • Re: 4.0 ohms • Frequency range: 150-18,500 Hz • SPL: 88 dB 2.83V/1m • Dimensions: 48" L x 6" W x 1-1/2" D.

**#264-704** ..... \$900.00 LIST **\$650.00** EACH

### RD50 Planar Transducer

**Specifications:** • Power handling: 70 watts RMS/270 watts max • Nominal Impedance: 4 ohms • Re: 4.0 ohms • Frequency range: 150-18,500 Hz • SPL: 88 dB 2.83V/1m • Dimensions: 51-1/2" L x 4-11/16" W x 1-1/2" D.

**#264-702** ..... \$750.00 LIST **\$566.50** EACH

### RD75 Planar Transducer

**Specifications:** • Power handling: 100 watts RMS/400 watts max • Nominal Impedance: 6 ohms • Re: 6.0 ohms • Frequency range: 150-18,500 Hz • SPL: 88 dB 2.83V/1m • Dimensions: 75-5/8" L x 4-11/16" W x 1-1/2" D.

**#264-700** ..... \$995.00 LIST **\$753.50** EACH

### Neo Series Planar Transducers

The Bohlender Graebener Neo Series of planar transducers features push-pull neodymium magnets, extremely light Kaladex® diaphragms, and an etched planar aluminum conductor. There are no heavy voice coils, glue joints, or surrounds to inhibit the reproduction of the signal, hence there is no cone break-up resonance, phase incoherence, or signal smearing that is common in conventional drivers. The Neo Series delivers clean, airy, transparent sound that is inherently natural and musically pleasing. Completely shielded for safe implementation in multimedia and A/V systems. Available in standard or PDR options, see the information below for strengths of each type.

#### Standard Transducers

- Larger radiating area for highest sensitivity
- Controlled horizontal dispersion
- Great option for high-efficiency speaker designs

#### PDR Transducers

- Improved horizontal off-axis response
- Superior top-octave extension
- Best choice for conventional hi-fi speakers

### Neo8/Neo8-PDR Planar Transducers

- Response from 700 Hz to 18 kHz is suitable for mid/tweeter use
- Exceptional midrange clarity and detail either as a dipole or monopole
- Tightly controlled vertical dispersion; can be used in multiples

**Neo8 Specifications:** • Power handling: 50 watts RMS/150 watts max • Impedance: 4 ohms • Re: 3.84 ohms • Frequency range: 500-18,000 Hz • SPL: 93 dB 2.83V/1m • Dimensions: 7-7/8" L x 3-1/2" W x 1/2" D.

**Neo8-PDR Specifications:** • Power handling: 40 watts RMS/120 watts max • Impedance: 4 ohms • Re: 3.6 ohms • Frequency range: 700-18,000 Hz • SPL: 93 dB 2.83V/1m • Dimensions: 7-7/8" L x 3-1/2" W x 1/2" D.

**#264-712** (Neo8)

**#264-713** (Neo8-PDR) ..... \$74.95 LIST **\$62.68** (1-3) **\$58.30** (4-UP)



### Neo3W/Neo3-PDRW Planar Transducers with Back Cups

- Response from 2 kHz to 20 kHz offers exceptional extension and detail
- Large radiating area gives lower distortion for a more effortless sound
- Attached damped rear chamber can be removed for dipole use
- Choose from surface or flush mount faceplates depending on installation



**Neo3W Specifications:** • Power handling: 20 watts RMS/50 watts max • Impedance: 4 ohms • Re: 3.5 ohms • Frequency range: 2,000-20,000 Hz • SPL: 93 dB 2.83V/1m • Dimensions: 3-1/2" L x 2-5/8" W x 1/2" D.

**Neo3-PDRW Specifications:** • Power handling: 20 watts RMS/50 watts max • Impedance: 4 ohms • Re: 3.5 ohms • Frequency range: 2,000-28,000 Hz • SPL: 91 dB 2.83V/1m • Dimensions: 3-1/2" L x 2-5/8" W x 1/2" D.

**#264-730** (Neo3W)

**#264-735** (Neo3-PDRW) ..... \$54.95 LIST **\$43.66** (1-3) **\$39.87** (4-UP)

### Flush-Mount Faceplates for Neo3/Neo3-PDR

Faceplates can be used to easily install a Neo3 or Neo3-PDR flush with the surface of a speaker cabinet. Includes screws to attach element to the faceplate and a foam gasket for preventing air leaks between the faceplate and the cabinet. Sold in pairs.



**#264-744** ..... \$14.99 LIST **\$11.50** (1-3 PRS) **\$10.65** (4 PRS-UP)

### Surface Mount Faceplates for Neo3/Neo3-PDR

Faceplates can be used to easily install a Neo3 or Neo3-PDR on the surfaces of a speaker cabinet. Includes screws to attach element to the faceplate and a foam gasket for preventing air leaks between the faceplate and the cabinet. Sold in pairs.



**#264-740** ..... \$19.95 LIST **\$11.50** (1-3 PRS) **\$10.65** (4 PRS-UP)