


EV Woofer Preliminary Data Summary

17-Dez-01

Only the **RED** part numbers are available for sales.

Note: All specifications shown are for typical typical loudspeakers. Specifications are subject to change without notice. Some specifications are incomplete at the time of this printing.

|  | | Model | ND08 | DL10X | ND12A | DL12BFH | DL12ST | DL15BFH | DL15ST | DL18MT | EVX155 | EVX180B |
|---|---|--------------|--------------------------|--|-------------------------|--|--|--|--|--|--|--|
| | | Part Numbers | 300993-001 300993-101 | 810-1663 810-PD-1663 810-2197 | 812-2858 812-PD-2858 | 812-3283 812-PD-3283 812-3379 | 812-3074 812-PD-3074 812-3380 | 815-3324 815-PD-3324 815-3381 | 815-3010 815-PD-3010 815-3382 | 818-2492 818-PD-2492 818-2631 | 815-3075 815-PD-3075 815-3087 | 818-2883 818-PD-2883 818-2882 |
| General Information | Nominal Cone Diameter (in.) | 8 | 10 | 12 | 12 | 12 | 15 | 15 | 18 | 15 | 18 | |
| | (mm) | 203 | 254 | 305 | 305 | 305 | 381 | 381 | 457 | 381 | 457 | |
| | Nominal Coil Diameter (in.) | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 2,5 | 4,0 | 4,0 | |
| | (mm) | 63,5 | 63,5 | 63,5 | 63,5 | 63,5 | 63,5 | 63,5 | 63,5 | 101,6 | 101,6 | |
| | Nominal Impedance (ohms) | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | Frequency Range (Hz) | 160-2000 | 100-2000 | 125-2000 | 60-2500 | 60-2000 | 45-2000 | 45-2000 | 35-800 | 40-2000 | 30-800 | |
| | Power Rating, as per EIA-RS426A (Watts) | 300 | 300 | 300 | 300 | 300 | 350 | 400 | 400 | 600 | 600 | |
| | Sensitivity, 1w@1m (db SPL) | | 97,0 | 102,0 | 96,0 | 98,0 | 96,0 | 95,0 | 94,0 | 95,0 | 95,0 | |
| | Maximum Calculated SPL (dB SPL) | 24,8 | 121,8 | 126,8 | 120,8 | 122,8 | 121,4 | 121,0 | 120,0 | 122,8 | 122,8 | |
| | Nominal Efficiency (%) | | 4,21 | 11,91 | 3,69 | 5,60 | 3,93 | 2,66 | 4,00 | 2,49 | 3,76 | |
| Max Calculated Acoustic Power (Ac. Watts) | 0,0 | 12,6 | 35,7 | 11,1 | 16,8 | 13,8 | 10,6 | 16,0 | 14,9 | 22,5 | | |
| Magnetic Material | N/Dym | Ceramic | N/Dym | Ceramic | Ceramic | Ceramic | Ceramic | Ceramic | Ceramic | Ceramic | | |
| Acoustic Polarity for "+" Voltage | Positive | Positive | Positive | Positive | Positive | Positive | Positive | Positive | Positive | Positive | | |
| Thiele-Small Parameters | Free Air Resonance, Fs (Hz) | | 85,23 | 67,11 | 60,04 | 72,73 | 45,63 | 42,03 | 32,93 | 44,30 | 39,88 | |
| | Mechanical Q, Qms | | 7,288 | 6,756 | 9,611 | 7,797 | 7,684 | 5,876 | 6,264 | 7,892 | 10,823 | |
| | Electrical Q, Qes | | 0,275 | 0,138 | 0,317 | 0,312 | 0,302 | 0,486 | 0,381 | 0,369 | 0,471 | |
| | Total Q, Qts | #DIV/0! | 0,265 | 0,135 | 0,307 | 0,300 | 0,291 | 0,449 | 0,360 | 0,353 | 0,451 | |
| | Moving Mass, Mms (g) | | 34,77 | 45,05 | 56,58 | 45,87 | 107,27 | 90,86 | 120,24 | 134,59 | 125,68 | |
| | Compliance, Cms (mm/N) | | 0,100 | 0,125 | 0,124 | 0,104 | 0,113 | 0,158 | 0,194 | 9,591 | 0,127 | |
| | Equivalent Volume Compliance, Vas (CuFt) | | 0,627 | 1,953 | 1,943 | 1,633 | 4,500 | 6,260 | 15,386 | 3,805 | 10,034 | |
| | (l) | 0,00 | 17,76 | 55,31 | 55,02 | 46,25 | 127,43 | 177,27 | 435,72 | 107,75 | 284,17 | |
| | Mechanical Resistance, Rms (Mech Ohms) | | 2,555 | 2,812 | 2,221 | 2,688 | 4,002 | 4,084 | 3,971 | 4,747 | 2,910 | |
| | DC Resistance, Re (Ohms) | | 6,400 | 5,900 | 4,400 | 6,100 | 4,900 | 4,900 | 6,400 | 5,200 | 5,400 | |
| | BI Product, BI (Tesla-Meters) | | 20,819 | 28,527 | 17,214 | 20,257 | 22,336 | 15,560 | 20,433 | 22,978 | 19,006 | |
| | Maximum Linear Displacement, Xmax (in.) | | 0,160 | 0,160 | 0,160 | 0,160 | 0,160 | 0,160 | 0,220 | 0,250 | 0,250 | |
| | (mm) | 0,00 | 4,06 | 4,06 | 4,06 | 4,06 | 4,06 | 4,06 | 5,59 | 6,35 | 6,35 | |
| | Maximum Physical Displacement, Xlim (in.) | | 0,500 | 0,500 | 0,500 | 0,500 | 0,500 | 0,500 | 0,500 | 0,750 | 0,750 | |
| | (mm) | 0,00 | 12,70 | 12,70 | 12,70 | 12,70 | 12,70 | 12,70 | 12,70 | 19,05 | 19,05 | |
| Effective Radiating Diameter (in.) | | 8,500 | 10,500 | 10,500 | 10,500 | 13,250 | 13,250 | 15,750 | 13,250 | 15,750 | | |
| (mm) | 0,0 | 215,9 | 266,7 | 266,7 | 266,7 | 336,6 | 336,6 | 400,1 | 336,6 | 400,1 | | |
| Figures | Frequency Response, 1w@1m | | See Figure 1 | See Figure 1 | See Figure 1 | See Figure 1 | See Figure 1 | See Figure 1 | See Figure 1 | See Figure 1 | See Figure 1 | |
| | Free Air Impedance | | See Figure 2 | See Figure 2 | See Figure 2 | See Figure 2 | See Figure 2 | See Figure 2 | See Figure 2 | See Figure 2 | See Figure 2 | |
| | Distortion, 10% Full Power | | See Figure 3 | See Figure 3 | See Figure 3 | See Figure 3 | See Figure 3 | See Figure 3 | See Figure 3 | See Figure 3 | See Figure 3 | |
| | Distortion, 115 dB SPL @ 1m | | See Figure 4 | See Figure 4 | See Figure 4 | See Figure 4 | See Figure 4 | See Figure 4 | See Figure 4 | See Figure 4 | See Figure 4 | |
| | Polars in Typical Enclosure | | | | | | | | | | | |
| Dimensions | Frame Front Diameter (in.) | 8,34 | 10,22 | 12,19 | 12,19 | 12,19 | 15,16 | 15,16 | 18,13 | 15,16 | 18,13 | |
| | (mm) | 211,8 | 259,5 | 309,6 | 309,6 | 309,6 | 385,0 | 385,0 | 460,5 | 385,0 | 460,5 | |
| | Magnet Diameter (in.) | 6,00 | 7,50 | 6,13 | 6,13 | 7,50 | 6,13 | 7,50 | 7,50 | 8,25 | 8,25 | |
| | (mm) | 152,4 | 190,5 | 155,6 | 155,6 | 190,5 | 155,6 | 190,5 | 190,5 | 209,6 | 209,6 | |
| | Overall Depth (in.) | 4,25 | 4,50 | 5,25 | 5,25 | 5,25 | 6,00 | 6,25 | 7,00 | 7,25 | 8,00 | |
| | (mm) | 108,0 | 114,3 | 133,4 | 133,4 | 133,4 | 152,4 | 158,8 | 177,8 | 184,2 | 203,2 | |
| | Mounting Bolt Circle Diameter (in.) | 7,688 | 9,625 | 11,563 | 11,563 | 11,563 | 14,563 | 14,563 | 17,375 | 14,563 | 17,375 | |
| | (mm) | 195,3 | 244,5 | 293,7 | 293,7 | 293,7 | 369,9 | 369,9 | 441,3 | 369,9 | 441,3 | |
| Baffle Board Cutout Diameter (in.) | 6,188 | 9,063 | 11,063 | 11,063 | 11,063 | 14,063 | 14,063 | 16,750 | 14,063 | 16,750 | | |
| (mm) | 157,2 | 230,2 | 281,0 | 281,0 | 281,0 | 357,2 | 357,2 | 425,5 | 357,2 | 425,5 | | |
| Net Weight (lb) | 10,8 | 14,3 | 12,1 | 11,1 | 14,7 | 12,0 | 15,2 | 15,8 | 22,8 | 23,4 | | |
| (kg) | 4,9 | 6,5 | 5,5 | 5,0 | 6,7 | 5,4 | 6,9 | 7,2 | 10,3 | 10,6 | | |
| Shipping Weight (lb) | 11,6 | 15,3 | 13,3 | 12,3 | 15,9 | 13,5 | 16,7 | 17,6 | 24,3 | 25,2 | | |
| (kg) | 5,3 | 6,9 | 6,0 | 5,6 | 7,2 | 6,1 | 7,6 | 8,0 | 11,0 | 11,4 | | |