



## JBL PROFESSIONAL

### Thiele/Small Low Frequency Driver Parameters And Definitions

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| PARAMETER   | DESCRIPTION  | UNITS         |
|-------------|--|---------------|
| $f_s$       | Resonance frequency of driver in free-air                          | hertz         |
| $Q_{ts}$    | Total Q of driver at $f_s$ including all driver loss mechanisms    | --            |
| $V_{as}$    | Volume of air having same acoustic compliance as driver suspension | liters        |
| Eff         | Reference efficiency $\eta_0$ (half-space acoustic load)           | %             |
| $Q_{es}$    | Q of driver at $f_s$ considering electrical losses only            | --            |
| $Q_{ms}$    | Q of driver at $f_s$ considering mechanical losses only            | --            |
| $L_e$       | Voice coil inductance  | mH            |
| $P_e$ (Max) | Thermally-limited maximum electrical input power                   | watts         |
| $X_{max}$   | Peak linear displacement of driver diaphragm                       | millimeters   |
| $S_d$       | Effective projected surface area of driver diaphragm               | square meters |
| $R_e$       | dc resistance of driver voice coil                                 | ohms          |
| BL          | BL Product   | T*m           |
| $M_{ms}$    | Effective moving mass  | grams         |
| flux        | Flux density   | Tesla         |



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| MODEL     | FS    | QTS  | QMS   | QES  | VAS   | EFF  | PE  | XMAX  | RE   | LE    | SD     | BI   | MMS   | FLUX |
|-----------|-------|------|-------|------|-------|------|-----|-------|------|-------|--------|------|-------|------|
| 112A      | 40    | 0.21 | 4     | 0.22 | 34.0  | 0.9  | 60  | 2.79  | 5.8  | 0.3   | 0.018  | 12   | 22    | 0.95 |
| 116A      | 28    | 0.46 | 5     | 0.51 | 73.6  | 0.3  | 50  | 4.83  | 5.2  | 0.6   | 0.018  | 6.7  | 25    | 0.85 |
| 122A      | 17    | 0.23 | 7     | 0.24 | 339.8 | 0.67 | 50  | 6.86  | 5.7  | 1.5   | 0.053  | 16   | 100   | 1.08 |
| 123A      | 25    | 0.49 | 8.5   | 0.52 | 235.1 | 0.68 | 50  | 7.87  | 4.4  | 0.6   | 0.049  | 8.9  | 85    | 1    |
| 124A      | 16    | 0.14 | 6     | 0.14 | 399.3 | 1.1  | 100 | 5.08  | 6.3  | 1.4   | 0.053  | 21   | 100   | 1.2  |
| 125A      | 25    | 43   | 7.5   | 0.46 | 235.1 | 0.77 | 50  | 4.83  | 5.2  | 0.7   | 0.049  | 7.5  | 32    | 0.85 |
| 127A      | 25    | 0.43 | 7.5   | 0.46 | 235.1 | 0.77 | 50  | 4.83  | 5.2  | 0.7   | 0.049  | 7.5  | 32    | 0.85 |
| 127H      | 25    | 0.43 | 7.5   | 46   | 237.9 | 0.77 | 50  | 4.83  | 6.6  | 0.7   | 0.032  | 7.5  | 33    | 1.07 |
| 127H-2    | 30.17 | 0.26 | 2.73  | 0.28 | 4.8   | 1.23 | 125 |       | 5.6  | 0.738 | 0.345  | 11.3 | 34.6  | 11.3 |
| 127H-3    | 37    | 0.37 | 4.18  | 0.40 | 91    | 1.1  | 200 | 6     | 5.6  | 0.8   | 0.0358 | 10.8 | 36    |      |
| 127H-4    | 64.3  | 0.5  | 3.08  | 0.60 | 27.9  | 1.2  | 200 | 6     | 4.1  | 1.3   | 0.034  | 10   | 36    |      |
| 128H      | 20    | 0.24 | 7     | 0.25 | 280.4 | 0.86 | 100 | 7.87  | 5.7  | 0.6   | 0.053  | 16   | 90    | 1.07 |
| 130A      | 37    | 0.18 | 4     | 0.19 | 297.4 | 7.7  | 100 | 2.03  | 5.7  | 0.8   | 0.090  | 22.5 | 70    | 1.1  |
| 136A      | 16    | 0.21 | 5.5   | 0.22 | 736.3 | 1.4  | 100 | 5.08  | 6.3  | 1.4   | 0.008  | 21   | 151   | 1.2  |
| 136HS     | 35    | 0.38 | 7.7   | 0.4  | 153.5 | 1.59 | 300 | 7.87  | 5    | 1.5   | 0.008  | 20   | 146   | 1.22 |
| 218F      | 45    | 0.38 | 4.2   | 0.42 | 26    | 0.55 | 200 | 15.7  | 1.8  | 0.15  | 0.215  | 6.1  | 31    |      |
| 227H      | 34    | 0.43 | 10.53 | 0.45 | 77    | 0.70 | 120 | 7     | 5.75 | 3     | 0.0357 | 16.7 | 50    |      |
| 252F      | 24    | 0.29 | 67    | 0.3  | 171   | 0.75 | 150 | 7     | 1.38 | 0.35  | 0.053  | 8.4  | 103   |      |
| 252G      | 23    | 0.25 | 6.3   | 0.26 | 178   | 0.79 | 150 | 7     | 4.4  | 1.24  | 0.053  | 16.3 | 110   |      |
| 506G      | 50    | 0.5  | 2.5   | 0.65 | 19.8  | 0.42 | 50  | 10.67 | 4.5  | 0.6   | 0.014  | 6    | 13    | 1.05 |
| 508G      | 45    | 0.6  | 7.5   | 0.65 | 42.5  | 0.66 | 100 | 10.41 | 5.9  | 0.7   | 0.021  | 7    | 17    | 1    |
| 1400      | 52    | 0.31 | 4.1   | 0.34 | 62.3  | 2.5  | 600 | 7.62  | 4.1  | 0.9   | 0.064  | 18.4 | 85    | 0.56 |
| 2012H     | 60    | 0.22 | 4.34  | 0.23 | 1.34  | 3.47 | 300 | 5     | 4.65 |       | 0.031  | 13.9 | 0.025 |      |
| 2020H     | 66    | 0.25 | 5     | 0.26 | 51.5  | 5.43 | 400 | 5.08  | 4.8  | 0.02  | 0.053  | 18.3 | 44    | 1    |
| 2022H     | 75    | 0.4  | 4.3   | 0.44 | 42.5  | 3.9  | 300 | 6.35  | 4.6  | 0.7   | 0.053  | 14.6 | 43    | 1    |
| 2023H     | 67    | 0.37 | 5.5   | 0.37 | 48.8  | 3.5  | 300 | 8.6   | 5.25 | 1.6   | 0.0547 | 16.2 | 45    |      |
| 2025H     | 48    | 0.22 | 4     | 0.23 | 78.4  | 3.55 | 400 | 7.11  | 3.9  | 0.15  | 0.053  | 16.6 | 55    | 1    |
| 2032H     | 57    | 0.54 | 5.5   | 0.6  | 133.1 | 4    | 300 | 6.35  | 4.2  | 0.6   | 0.088  | 12.8 | 65    | 1    |
| 2033H     | 50    | 0.42 | 7.8   | 0.44 | 170   | 4.3  | 300 | 8.6   | 5.2  | 1.6   | 0.091  | 16   | 69    |      |
| 2035H     | 48    | 0.34 | 5     | 0.36 | 140.5 | 4.13 | 400 | 7.11  | 3.9  | 0.25  | 0.088  | 16.6 | 85    | 1    |
| 2035HPL-1 | 43    | 0.34 | 4.9   | 0.36 | 6.8   | 3.8  | 300 | 7     | 4.7  | 0.25  | 0.088  | 16.5 | 0.082 | 1    |
| 2042H     | 39    | 0.4  | 5     | 0.44 | 337.0 | 4.5  | 300 | 7.62  | 4.3  | 0.8   | 0.127  | 16.2 | 110   | 1    |
| 2105H     | 200   | 0.53 | 3     | 0.65 | 1.0   | 1.2  | 25  | 1.52  | 6.1  | 0.3   | 0.006  | 6.6  | 3.5   | 1.35 |
| 2108      | 40    | 0.17 | 4.5   | 0.18 | 36.8  | 1.2  | 75  | 1.52  | 5.8  | 0.5   | 0.018  | 13   | 20    | 1.02 |
| 2110      | 60    | 0.31 | 3.5   | 0.34 | 34.0  | 2.1  | 25  | 2.54  | 6    | 0.3   | 0.021  | 6.8  | 11    | 0.85 |
| 2115A     | 55    | 0.48 | 4     | 0.54 | 34.0  | 1    | 30  | 5.59  | 5.5  | 0.3   | 0.018  | 6.8  | 11    | 0.85 |
| 2118H     | 85    | 0.35 | 2.4   | 0.4  | 14.2  | 2.1  | 100 | 3.05  | 5.5  | 0.6   | 0.021  | 11   | 17    | 1.05 |
| 2118J     | 85    | 0.35 | 2.4   | 0.4  | 14.2  | 2.1  | 100 | 3.05  | 10.3 | 0.9   | 0.021  | 15   | 17    | 1.05 |
| 2119H     | 78    | 0.37 | 4.5   | 0.37 | 0.5   | 1.68 | 175 | 2.54  | 5.3  | 0.55  | 0.0218 |      |       |      |
| 2120      | 65    | 0.36 | 4     | 0.4  | 45.3  | 3    | 75  | 1.52  | 6    | 0.4   | 0.032  | 10.3 | 17    | 1.02 |
| 2121      | 35    | 0.19 | 5.5   | 0.2  | 110.4 | 2.7  | 75  | 1.52  | 6.8  | 0.9   | 0.032  | 12.7 | 25    | 1    |
| 2121H     | 35    | 0.16 | 5.5   | 0.17 | 110.4 | 2.7  | 75  | 1.52  | 6    | 0.8   | 0.032  | 13.7 | 26    | 1.02 |
| 2122H     | 40    | 0.23 | 1.9   | 0.26 | 65.1  | 2.4  | 100 | 3.05  | 5.8  | 0.6   | 0.032  | 13.2 | 28    | 1.02 |
| 2123H     | 85    | 0.32 | 2.5   | 0.37 | 19.8  | 3.5  | 250 | 2.54  | 4.2  | 0.4   | 0.032  | 13   | 25    | 1.07 |
| MODEL     | FS    | QTS  | QMS   | QES  | VAS   | EFF  | PE  | XMAX  | RE   | LE    | SD     | BI   | MMS   | FLUX |



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| MODEL | FS | QTS  | QMS  | QES  | VAS   | EFF  | PE  | XMAX | RE   | LE   | SD    | BI   | MMS | FLUX |
|-------|----|------|------|------|-------|------|-----|------|------|------|-------|------|-----|------|
| 2123J | 85 | 0.32 | 2.5  | 0.37 | 19.8  | 3.5  | 250 | 2.54 | 8.7  | 0.8  | 0.032 | 18.7 | 25  | 1.07 |
| 2125  | 45 | 0.45 | 4.5  | 0.5  | 135.9 | 2.5  | 50  | 2.54 | 6    | 0.5  | 0.053 | 12.4 | 45  | 1    |
| 2130  | 50 | 0.2  | 4    | 0.21 | 121.8 | 6.9  | 100 | 1.52 | 6.3  | 0.6  | 0.053 | 18   | 35  | 1.2  |
| 2135  | 40 | 0.25 | 4    | 0.27 | 297.4 | 6.7  | 125 | 1.52 | 6.3  | 0.6  | 0.089 | 18   | 60  | 1.2  |
| 2142H | 72 | 0.75 | 4.2  | 0.92 | 45.3  | 1.82 | 100 | 6.35 | 5.2  | 0.85 | 0.053 |      |     |      |
| 2145A | 30 | 0.51 | 12   | 0.53 | 155.8 | 0.76 | 50  | 3.56 | 5    | 0.4  | 0.044 | 9.4  | 50  | 1    |
| 2150  | 55 | 0.64 | 5    | 0.73 | 99.1  | 2.2  | 50  | 2.54 | 5.5  | 1    | 0.075 | 22.3 | 105 | 1.2  |
| 2152H | 85 | 0.39 | 3.3  | 0.44 | 36.8  | 5.1  | 150 | 2.54 | 4.5  | 0.5  | 0.053 |      |     |      |
| 2155H | 53 | 0.47 | 4.47 | 0.53 | 164.3 | 4.4  | 150 | 2.54 | 4.2  | 0.48 | 0.090 |      |     |      |
| 2202A | 50 | 0.17 | 3.5  | 0.18 | 87.8  | 5.5  | 100 | 3.05 | 5.5  | 1    | 0.053 | 22   | 50  | 1.2  |
| 2202H | 50 | 0.16 | 3.5  | 0.18 | 87.8  | 6    | 150 | 3.56 | 5.5  | 1.1  | 0.053 | 22.5 | 50  | 1.2  |
| 2202J | 50 | 0.16 | 4.3  | 0.18 | 87.8  | 6    | 150 | 3.56 | 11   | 1.8  | 0.053 | 27.8 | 50  | 1.2  |
| 2203A | 16 | 0.14 | 6    | 0.14 | 399.3 | 1.1  | 100 | 5.08 | 6.3  | 1.4  | 0.053 | 21   | 100 | 1.2  |
| 2203H | 16 | 0.14 | 6    | 0.14 | 399.3 | 1.1  | 100 | 5.08 | 6.3  | 1.4  | 0.053 | 21   | 100 | 1.2  |
| 2204H | 45 | 0.35 | 1.7  | 0.44 | 87.8  | 1.8  | 350 | 6.86 | 6.2  | 0.7  | 0.054 | 15   | 57  | 1.2  |
| 2204J | 45 | 0.35 | 1.7  | 0.44 | 87.8  | 1.8  | 350 | 6.86 | 12.4 | 1.6  | 0.054 | 25.5 | 57  | 1.2  |
| 2205A | 30 | 0.21 | 5    | 0.22 | 297.3 | 3.5  | 150 | 2.54 | 5.5  | 1.3  | 0.090 | 22.3 | 105 | 1.2  |
| 2205H | 30 | 0.21 | 5    | 0.22 | 297.3 | 3.5  | 150 | 2.54 | 5.5  | 1.3  | 0.090 | 22.3 | 105 | 1.2  |
| 2206H | 52 | 0.32 | 4.45 | 0.34 | 62.3  | 2.5  | 600 | 7.62 | 5.3  | 1.5  | 0.055 | 18.1 | 65  |      |
| 2206J | 52 | 0.34 | 4.5  | 0.37 | 62.0  | 2.21 | 600 | 7.62 | 9.9  | 3    | 0.055 | 24   | 66  | 1    |
| 2213  | 25 | 0.49 | 8.5  | 0.52 | 235.0 | 0.68 | 50  | 7.87 | 4.4  | 0.6  | 0.049 | 8.9  | 85  | 1    |
| 2213H | 25 | 0.49 | 8.5  | 0.52 | 235.0 | 0.68 | 75  | 7.87 | 4.4  | 0.6  | 0.049 | 8.9  | 85  | 1    |
| 2214H | 23 | 0.24 | 10.5 | 0.25 | 223.7 | 1.1  | 200 | 6.60 | 5.6  | 1.3  | 0.053 | 16   | 90  | 1.07 |
| 2215A | 20 | 0.21 | 5.5  | 0.22 | 736.2 | 2.6  | 100 | 4.06 | 5.7  | 1    | 0.090 | 22   | 97  | 0.9  |
| 2215B | 20 | 0.21 | 5.5  | 0.22 | 736.2 | 2.5  | 100 | 4.06 | 8.8  | 2.2  | 0.088 | 22   | 97  | 0.9  |
| 2215H | 20 | 0.21 | 5.5  | 0.22 | 736.2 | 2.6  | 100 | 4.06 | 5.7  | 1    | 0.090 | 22   | 97  | 0.09 |
| 2217H | 45 | 0.31 | 6    | 0.33 | 83.8  | 2.19 | 600 | 7.62 | 5    | 1.8  | 0.063 | 18.7 | 83  | 1    |
| 2220A | 37 | 0.18 | 4    | 0.19 | 297.3 | 7.7  | 100 | 2.03 | 5.7  | 0.8  | 0.090 | 22.5 | 70  | 1.1  |
| 2220H | 37 | 0.17 | 5    | 0.18 | 297.3 | 8.7  | 200 | 3.05 | 5.7  | 1    | 0.090 | 22.5 | 70  | 1.15 |
| 2220J | 37 | 0.17 | 5    | 0.18 | 297.3 | 8.7  | 200 | 3.05 | 13.2 | 2    | 0.090 | 34   | 70  | 1.15 |
| 2225H | 40 | 0.28 | 2.5  | 0.31 | 169.9 | 3.5  | 200 | 5.08 | 6.3  | 1.1  | 0.090 | 23   | 105 | 1.2  |
| 2225J | 40 | 0.28 | 2.5  | 0.31 | 169.9 | 3.5  | 200 | 5.08 | 12.9 | 2.2  | 0.090 | 34   | 105 | 1.2  |
| 2226G | 40 | 0.31 | 5    | 0.33 | 175.6 | 3.3  | 600 | 7.62 | 2.5  | 0.92 | 0.088 | 13.5 | 98  | 1.05 |
| 2226H | 40 | 0.31 | 5    | 0.33 | 175.6 | 3.3  | 600 | 7.62 | 5    | 1.75 | 0.088 | 19.2 | 98  | 1    |
| 2226J | 40 | 0.31 | 5    | 0.33 | 175.6 | 3.3  | 600 | 7.62 | 10   | 3.5  | 0.088 | 27.1 | 98  | 1    |
| 2227H | 40 | 0.21 | 5    | 0.22 | 175.6 | 4.9  | 600 | 5.08 | 4.7  | 0.55 | 0.088 | 23   | 99  |      |
| 2231A | 16 | 0.21 | 5.5  | 0.22 | 736.2 | 1.4  | 100 | 5.08 | 6.3  | 1.4  | 0.088 | 21   | 151 | 1.2  |
| 2231H | 16 | 0.21 | 5.5  | 0.22 | 736.2 | 1.4  | 100 | 5.08 | 6.3  | 1.4  | 0.088 | 21   | 151 | 1.2  |
| 2234H | 23 | 0.22 | 2    | 0.25 | 458.7 | 2.1  | 150 | 8.38 | 6    | 1.2  | 0.090 | 20.5 | 105 | 1.2  |
| 2235H | 20 | 0.25 | 2.5  | 0.28 | 458.7 | 1.3  | 150 | 8.38 | 6    | 1.2  | 0.090 | 20.5 | 155 | 1.2  |
| 2240G | 30 | 0.25 | 2.5  | 0.25 | 481.4 | 5    | 300 | 5.59 | 2.5  | 0.7  | 0.130 | 17.1 | 164 | 1.22 |
| 2240H | 30 | 0.23 | 2.2  | 25   | 481.4 | 5    | 300 | 5.59 | 6    | 1.4  | 0.130 | 25   | 164 | 1.22 |
| 2241G | 35 | 0.4  | 5.7  | 0.43 | 311.5 | 2.9  | 600 | 7.62 | 2.5  | 0.86 | 0.123 | 13.6 | 145 |      |
| 2241H | 35 | 0.4  | 5.7  | 0.43 | 311.5 | 2.9  | 600 | 7.62 | 5    | 1.75 | 0.123 | 19.2 | 145 |      |
| MODEL | FS | QTS  | QMS  | QES  | VAS   | EFF  | PE  | XMAX | RE   | LE   | SD    | BI   | MMS | FLUX |



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| MODEL  | FS    | QTS   | QMS  | QES  | VAS   | EFF  | PE  | XMAX | RE    | LE   | SD     | BI    | MMS   | FLUX |
|--------|-------|-------|------|------|-------|------|-----|------|-------|------|--------|-------|-------|------|
| 2242H  | 35    | 0.28  | 5    | 0.29 | 282.3 | 4    | 800 | 7.87 | 4.7   | 1.25 | 0.124  | 23.7  | 158   |      |
| 2245H  | 20    | 0.27  | 2.2  | 0.27 | 821.2 | 2.1  | 300 | 9.65 | 5.8   | 1.4  | 0.130  | 21    | 185   | 1.22 |
| 2250H  | 188   | 0.47  | 4.5  | 0.53 | 1.67  | 2    | 300 | 3    | 5.2   | 1    | 0.0204 | 17    | 25    | 1.0  |
| 2250J  | 185   | 0.45  | 4.8  | 0.47 | 1.5   | 2.3  | 350 | 3.0  | 8.7   | 1.7  |        |       |       | 1    |
| 2251J  | 61    | 0.2   | 4    | 0.21 | 1.011 |      | 388 | 5.7  | 12.65 |      | 0.031  | 26.77 | 0.032 |      |
| 2254J  | 46.63 | 0.16  | 2.47 | 0.17 | 2.60  | 4.20 | 600 | 6.35 | 11.16 |      | 0.063  | 10.99 | 0.088 |      |
| 2255H  | 39    | 0.30  | 3.68 | 0.33 | 170   | 2.9  | 650 | 8    | 5.0   | 1.5  | 0.088  | 20.1  | 109   |      |
| 2258H  | 31    | 0.27  | 4.82 | 0.28 | 407   |      | 800 | 8    | 5.2   | 1.24 | 0.124  | 22.3  | 140   |      |
| D123   | 45    | 0.45  | 4.5  | 0.5  | 135.9 | 2.5  | 50  | 2.54 | 6     | 0.5  | 0.053  | 12.4  | 45    | 1    |
| D130   | 40    | 0.25  | 4    | 0.27 | 297.3 | 6.7  | 75  | 0.76 | 6.3   | 0.6  | 0.090  | 18    | 60    | 1.2  |
| D131   | 50    | 0.18  | 8.5  | 0.18 | 127.4 | 8.4  | 75  | 0.76 | 6.3   | 0.5  | 0.053  | 18    | 35    | 1.2  |
| D208   | 60    | 0.31  | 3.5  | 0.34 | 34.0  | 2.1  | 25  | 2.54 | 6     | 0.3  | 0.021  | 6.8   | 11    | 0.85 |
| E110   | 65    | 0.36  | 4    | 0.4  | 45.3  | 3    | 75  | 2.54 | 6     | 0.4  | 0.032  | 12.1  | 21    | 1.03 |
| E120   | 60    | 0.17  | 1.8  | 0.19 | 79.3  | 8.6  | 150 | 3.05 | 6.3   | 0.4  | 0.053  | 21.7  | 36    | 1.35 |
| E130   | 40    | 0.19  | 1.8  | 0.21 | 297.3 | 8.6  | 150 | 2.54 | 6.3   | 0.4  | 0.090  | 21.1  | 60    | 1.35 |
| E140   | 32    | 0.17  | 5    | 0.19 | 297.3 | 4.9  | 200 | 3.56 | 5.5   | 1.11 | 0.090  | 24.1  | 94    | 1.35 |
| E145   | 35    | 0.25  | 6    | 0.26 | 274.7 | 4.3  | 150 | 7.11 | 5.7   | 1.6  | 0.090  | 16.1  | 55    | 0.97 |
| E155-4 | 30    | 0.2   | 2.2  | 0.22 | 424.8 | 4.9  | 300 | 5.08 | 2.5   | 0.7  | 0.114  | 17    | 125   | 1.22 |
| E155-8 | 30    | 0.2   | 2.2  | 0.22 | 424.8 | 4.9  | 300 | 5.08 | 6     | 1.4  | 0.114  | 25    | 125   | 1.22 |
| G125-8 | 65    | 0.32  | 5.5  | 0.34 | 70.8  | 5.5  | 200 | 2.54 | 5.2   | 0.5  | 0.053  | 13.7  | 37    | 0.98 |
| G135-8 | 45    | 0.36  | 5.5  | 0.38 | 235.0 | 5.5  | 200 | 2.54 | 5.2   | 0.5  | 0.090  | 13.7  | 60    | 0.98 |
| G135-A | 45    | 0.48  | 6.6  | 0.51 | 218.0 | 3.8  | 200 | 6.10 | 6     | 0.75 | 0.090  | 15.8  | 60    | 0.98 |
| K110   | 65    | 0.36  | 4    | 0.4  | 45.3  | 3    | 75  | 1.52 | 6     | 0.4  | 0.032  | 10.3  | 17    | 1.02 |
| K120   | 50    | 0.2   | 4    | 0.21 | 121.8 | 6.9  | 100 | 1.52 | 6.3   | 0.6  | 0.053  | 18    | 35    | 1.2  |
| K130   | 40    | 0.25  | 4    | 0.27 | 297.3 | 6.7  | 125 | 0.76 | 6.3   | 0.6  | 0.090  | 18    | 60    | 1.2  |
| K140   | 30    | 0.21  | 5    | 0.22 | 297.3 | 3.5  | 150 | 5.08 | 5.5   | 1.3  | 0.090  | 22.3  | 105   | 1.2  |
| K145   | 35    | 0.29  | 6    | 0.3  | 243.5 | 3.4  | 150 | 5.08 | 8.8   | 2.2  | 0.079  | 21.7  | 75    | 0.9  |
| K151   | 30    | 0.27  | 6    | 0.28 | 365.3 | 3.4  | 150 | 2.54 | 6     | 2    | 0.107  | 22    | 125   | 1.2  |
| LE5-10 | 250   | 1     | 3    | 1.6  | 0.7   | 0.69 | 25  | 1.52 | 6     | 0.05 | 0.006  | 4.3   | 3     | 1.3  |
| LE8T   | 45    | 0.49  | 4    | 0.55 | 34.0  | 0.5  | 25  | 4.57 | 5.5   | 0.3  | 0.018  | 6.2   | 16    | 0.85 |
| LE8TH  | 45    | 0.56  | 4    | 0.65 | 34.0  | 0.5  | 25  | 5.59 | 5.5   | 0.3  | 0.018  | 6.2   | 16    | 0.85 |
| LE10A  | 30    | 0.41  | 6    | 0.44 | 101.9 | 0.6  | 75  | 6.10 | 4.4   | 0.6  | 0.032  | 8.1   | 35    | 1.02 |
| LE10H  | 33    | 0.37  | 6.9  | 0.39 | 76.5  | 0.7  | 75  | 6.10 | 4.8   | 0.6  | 0.032  | 9.7   | 40    | 1.02 |
| LE111A | 25    | 0.17  | 6    | 0.18 | 101.9 | 0.87 | 75  | 6.10 | 5.7   | 1.5  | 0.032  | 16    | 50    | 1.08 |
| LE12C  | 30    | 0.51  | 12   | 0.53 | 155.7 | 0.76 | 50  | 3.56 | 5     | 0.4  | 0.044  | 9.4   | 50    | 1    |
| LE14A  | 28    | 0.32  | 6.5  | 0.34 | 147.2 | 0.95 | 100 | 5.08 | 6.3   | 1.4  | 0.066  | 21.5  | 140   | 1.2  |
| LE14H  | 26    | 0.27  | 2.3  | 0.3  | 147.2 | 0.89 | 150 | 8.38 | 5.9   | 1.3  | 0.066  | 22    | 139   | 1.25 |
| LE15A  | 20    | 0.21  | 5.5  | 0.22 | 736.2 | 2.6  | 100 | 4.06 | 8.8   | 2.2  | 0.088  | 22    | 97    | 0.9  |
| MI-10  | 75    | 0.33  | 1.8  | 0.41 | 36.8  | 3.5  | 150 | 3.05 | 5.6   | 0.6  | 0.034  | 11.6  | 21    | 1.05 |
| MI-12  | 65    | 0.46  | 2.2  | 0.58 | 76.5  | 3.5  | 150 | 3.05 | 5.6   | 0.6  | 0.055  | 11.6  | 34    | 1.05 |
| MI-15  | 55    | 0.62  | 2.8  | 0.79 | 169.9 | 3.5  | 150 | 3.05 | 5.6   | 0.6  | 0.090  | 11.6  | 55    | 1.05 |
| MI-15A | 40    | 0.42  | 4    | 0.47 | 271.8 | 3.5  | 150 | 3.56 | 5.6   | 0.9  | 0.090  | 11.6  | 55    | 1.05 |
| M121-8 | 60    | 0.245 | 4    | 0.25 | 70.8  |      | 300 | 4.57 | 5.2   | 0.63 | 0.053  | 17.5  | 39    | 1    |
| M151-4 | 50    | 0.28  | 6    | 0.3  | 148.7 | 5.92 | 300 | 5.08 | 2.4   | 0.42 | 0.088  | 13.6  | 74    | 1    |
| MODEL  | FS    | QTS   | QMS  | QES  | VAS   | EFF  | PE  | XMAX | RE    | LE   | SD     | BI    | MMS   | FLUX |



# JBL PROFESSIONAL

## THIELE SMALL LOW FREQUENCY DRIVER PARAMETERS AND DEFINITIONS

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| MODEL   | FS | QTS  | QMS | QES  | VAS   | EFF  | PE  | XMAX | RE  | LE   | SD     | BI   | MMS  | FLUX |
|---------|----|------|-----|------|-------|------|-----|------|-----|------|--------|------|------|------|
| M151-8  | 45 | 0.25 | 4.8 | 0.27 | 198.2 | 6.5  | 300 | 5.08 | 4.8 | 0.72 | 0.088  | 18.8 | 70   | 1    |
| M112-8  | 79 | 0.36 | 2   | 0.44 | 0.45  | 4.8  | 225 | 5.1  | 5.2 | 1.2  | 0.0564 | 15.5 | 41.4 |      |
| M115-8  | 46 | 0.42 | 9.5 | 0.4  | 230   | 5    | 175 | 5.1  | 5.5 | 1.3  | 0.0830 | 13.9 | 53   |      |
| M115-8A | 46 | 0.39 | 5.1 | 0.42 | 225   | 5    | 225 | 5.1  | 5.5 | 1.3  | 0.0845 | 14   | 53   |      |
| M209-8  | 91 | 0.39 | 2   | 0.48 | 13.3  | 2.01 | 150 | 1.78 | 4.9 | 0.27 | 0.022  | 9.5  | 16   | 1.05 |
| M222-8  | 71 | 0.48 | 3.6 | 0.55 | 41.9  | 2.62 | 300 | 6.35 | 4.2 | 0.43 | 0.053  | 12.8 | 48   | 1    |
| M252-8  | 51 | 0.56 | 4.6 | 0.64 | 137.1 | 2.71 | 300 | 6.35 | 4.2 | 0.43 | 0.088  | 12.8 | 79   | 1    |
| MODEL   | FS | QTS  | QMS | QES  | VAS   | EFF  | PE  | XMAX | RE  | LE   | SD     | BI   | MMS  | FLUX |