

Driver specifications, tweeters

Latest update: April 23, 2015

| Model no. | Nom. size | Nom. imp. | Freq. range | Sensitivity | VC. diam. | X_{max} | S_d | F_s | M_{ms} | B_{xl} | Q_{ms} | Q_{es} | Q_{ts} | V_{as} | R_{DC} |
|-----------|-----------|-----------|-------------|---------------|-----------|-----------|--------------------|-------|----------|----------|----------|----------|----------|----------|----------|
| | [mm] | [ohm] | [kHz] | [dB@2.83V/1m] | [mm] | [mm] | [cm ²] | [Hz] | [g] | [N/A] | [-] | [-] | [-] | [mlit.] | [ohm] |
| TW013WA01 | 13 | 4 | 5-50 | 87 | 13 | ±0.3 | 2.1 | 1,300 | 0.12 | 0.71 | 1.7 | 5.3 | 1.29 | 0.81 | 2.9 |
| TW022WA02 | 22 | 4 | 2.5-30 | 88.5 | 22 | ±0.45 | 6.1 | 1,150 | 0.28 | 1.33 | 1.5 | 4.1 | 1.11 | 3.6 | 3.6 |
| TW022WA04 | 22 | 4 | 2-30 | 89.5 | 22 | ±0.45 | 6.1 | 825 | 0.26 | 1.6 | 1.4 | 1.9 | 0.80 | 7.6 | 3.6 |
| TW022WA05 | 22 | 4 | 2.5-25 | 91.5 | 22 | ±0.35 | 6.1 | 750 | 0.28 | 1.9 | 5.3 | 1.36 | 1.08 | 8.5 | 3.7 |
| TW022WA06 | 22 | 4 | 2-25 | 90.5 | 22 | ±0.35 | 6.1 | 750 | 0.30 | 1.9 | 2.5 | 1.45 | 0.92 | 7.9 | 3.7 |
| TW030WA01 | 30 | 4 | 2-25 | 94 | 30 | ±0.65 | 11.5 | 1,050 | 0.42 | 2.3 | 4.8 | 1.78 | 1.30 | 10.3 | 3.4 |
| TW030WA02 | 30 | 4 | 2-25 | 94 | 30 | ±0.65 | 11.5 | 1,100 | 0.45 | 2.5 | 1.2 | 1.69 | 0.70 | 8.7 | 3.4 |
| TW030WA05 | 30 | 4 | 1.5-25 | 91.5 | 30 | ±0.4 | 11.5 | 450 | 0.40 | 2.0 | 1.5 | 0.96 | 0.59 | 59 | 3.4 |
| TW030WA06 | 30 | 4 | 1.5-25 | 91 | 30 | ±0.4 | 11.5 | 450 | 0.42 | 2.0 | 1.2 | 1.01 | 0.55 | 56 | 3.4 |
| TW030WA07 | 30 | 8 | 1.5-25 | 89 | 30 | ±0.4 | 11.5 | 470 | 0.37 | 2.4 | 1.6 | 1.19 | 0.68 | 59 | 6.3 |
| TW030WA08 | 30 | 8 | 1.5-25 | 88.5 | 30 | ±0.4 | 11.5 | 470 | 0.39 | 2.4 | 1.3 | 1.25 | 0.64 | 56 | 6.3 |
| TW030WA09 | 30 | 4 | 2-27 | 92.5 | 30 | ±0.4 | 11.5 | 725 | 0.45 | 2.0 | 8.1 | 1.74 | 1.43 | 20 | 3.4 |
| TW030WA10 | 30 | 8 | 2-27 | 90 | 30 | ±0.4 | 11.5 | 750 | 0.42 | 2.4 | 7.8 | 2.17 | 1.70 | 20 | 6.3 |
| TW030WA11 | 30 | 4 | 1.5-25 | 93.5 | 30 | ±0.4 | 11.5 | 410 | 0.43 | 1.7 | 1.9 | 1.34 | 0.79 | 66 | 3.5 |
| TW030WA12 | 30 | 8 | 1.5-25 | 91 | 30 | ±0.4 | 11.5 | 425 | 0.40 | 2.0 | 1.9 | 1.74 | 0.90 | 66 | 6.5 |
| TW030WA13 | 30 | 4 | 2-30 | 93.5 | 30 | ±0.4 | 11.5 | 690 | 0.43 | 1.95 | 2.5 | 1.62 | 1.01 | 23 | 3.5 |
| TW030WA14 | 30 | 8 | 2-30 | 90.5 | 30 | ±0.4 | 11.5 | 715 | 0.40 | 2.25 | 2.4 | 2.31 | 1.17 | 23 | 6.5 |

All specifications are measured at 25 °C (77 °F) and are before burn-in.

Driver specifications, full ranges

Latest update: October 4, 2015

| Model no. | Nom. size | Nom. imp. | Freq. range | Sensitivity | VC. diam. | X _{max} | S _d | F _s | M _{ms} | Bxl | Q _{ms} | Q _{es} | Q _{ts} | V _{as} | R _{DC} |
|-----------|-----------|-----------|-------------|---------------|-----------|------------------|--------------------|----------------|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | [inch.] | [ohm] | [Hz] | [dB@2.83V/1m] | [mm] | [mm] | [cm ²] | [Hz] | [g] | [N/A] | [-] | [-] | [-] | [lit.] | [ohm] |
| FR040WA01 | 1½ | 4 | full range | 84 | 16 | ±0.5 | 7.8 | 233 | 0.63 | 1.67 | 9.6 | 0.99 | 0.90 | 0.064 | 3.0 |
| FR040WA02 | 1½ | 8 | full range | 81 | 16 | ±0.5 | 7.8 | 239 | 0.60 | 2.0 | 9.4 | 1.42 | 1.23 | 0.064 | 6.3 |
| FR070WA01 | 2¾ | 4 | full range | 86.5 | 22 | ±2 | 21 | 121 | 2.0 | 3.0 | 12.6 | 0.58 | 0.56 | 0.54 | 3.45 |
| FR070WA02 | 2¾ | 8 | full range | 84 | 22 | ±2 | 21 | 124 | 1.9 | 3.6 | 12.3 | 0.73 | 0.69 | 0.54 | 6.4 |
| FR070WA03 | 2¾ | 4 | full range | 86 | 22 | ±2 | 21 | 121 | 2.0 | 2.3 | 13.8 | 0.99 | 0.92 | 0.54 | 3.45 |
| FR070WA04 | 2¾ | 8 | full range | 83 | 22 | ±2 | 21 | 124 | 1.9 | 2.9 | 13.4 | 1.13 | 1.04 | 0.54 | 6.4 |
| FR084WA01 | 3¾ | 4 | full range | 87 | 22 | ±2.25 | 36 | 113 | 3.45 | 2.9 | 5.6 | 0.96 | 0.82 | 1.07 | 3.3 |
| FR084WA02 | 3¾ | 8 | full range | 84 | 22 | ±2.25 | 36 | 114 | 3.35 | 3.65 | 5.3 | 1.10 | 0.92 | 1.07 | 6.1 |
| FR090WA01 | 3½ | 4 | full range | 86.5 | 22 | ±2.25 | 36 | 113 | 3.45 | 2.75 | 6.0 | 1.03 | 0.88 | 1.07 | 3.2 |
| FR090WA02 | 3½ | 8 | full range | 83.5 | 22 | ±2.25 | 36 | 114 | 3.35 | 3.4 | 5.9 | 1.27 | 1.04 | 1.07 | 6.1 |

All specifications are measured at 25 °C (77 °F) and are before burn-in.

Driver specifications, mid/woofers

Latest update: February 19, 2016

| Model no. | Nom. size | Nom. imp. | Freq. range | Sensitivity | VC. diam. | X _{max} | S _d | F _s | M _{ms} | Bxl | Q _{ms} | Q _{es} | Q _{ts} | V _{as} | R _{DC} |
|-----------------|-----------|-----------|-------------|---------------|-----------|------------------|--------------------|----------------|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | [inch.] | [ohm] | [kHz] | [dB@2.83V/1m] | [mm] | [mm] | [cm ²] | [Hz] | [g] | [N/A] | [-] | [-] | [-] | [lit.] | [ohm] |
| WF090WA01 | 3½ | 4 | to 5k | 86.5 | 22 | ±2.75 | 36 | 115 | 3.45 | 2.9 | 6.4 | 0.92 | 0.81 | 1.02 | 3.1 |
| WF090WA02 | 3½ | 8 | to 5k | 84 | 22 | ±2.75 | 36 | 117 | 3.35 | 3.5 | 6.3 | 1.11 | 0.94 | 1.02 | 5.5 |
| WF118WA01 | 4½ | 4 | to 4k | 89 | 32 | ±3 | 55 | 64 | 6.2 | 4.6 | 8.8 | 0.38 | 0.36 | 4.3 | 3.2 |
| WF118WA02 | 4½ | 8 | to 4k | 86 | 32 | ±3 | 55 | 65 | 6.0 | 5.8 | 8.8 | 0.46 | 0.44 | 4.3 | 6.3 |
| WF118WA05 | 4½ | 4 | to 4k | 87.5 | 32 | ±3 | 54 | 65 | 7.1 | 4.3 | 7.5 | 0.49 | 0.46 | 3.5 | 3.2 |
| WF118WA06 | 4½ | 8 | to 4k | 84.5 | 32 | ±3 | 54 | 66 | 6.9 | 5.6 | 7.4 | 0.59 | 0.55 | 3.5 | 6.5 |
| WF118WA07 | 4½ | 4 | to 3k | 87 | 26 | ±4 | 54 | 56 | 6.9 | 4.5 | 7.8 | 0.38 | 0.36 | 4.9 | 3.2 |
| WF118WA08 | 4½ | 8 | to 3k | 84 | 26 | ±4 | 54 | 58 | 6.5 | 5.8 | 7.6 | 0.45 | 0.42 | 4.9 | 6.4 |
| WF120BD03 / -07 | 4¾ | 4 | to 4k | 88.5 | 26 | ±4 | 54 | 70 | 6.55 | 4.5 | 5.9 | 0.46 | 0.42 | 3.25 | 3.2 |
| WF120BD04 / -08 | 4¾ | 8 | to 4k | 86 | 26 | ±4 | 54 | 71.5 | 6.25 | 5.5 | 5.7 | 0.56 | 0.51 | 3.25 | 6.0 |
| WF120BD05 / -09 | 4¾ | 4 | to 3.5k | 87 | 32 | ±4 | 54 | 52 | 7.3 | 4.1 | 7.9 | 0.45 | 0.43 | 5.3 | 3.2 |
| WF120BD06 / -10 | 4¾ | 8 | to 3.5k | 84 | 32 | ±4 | 54 | 54 | 6.7 | 5.2 | 7.6 | 0.54 | 0.50 | 5.3 | 6.4 |
| WF146WA01 | 5¾ | 4 | to 3.5k | 90 | 32 | ±3 | 95 | 56 | 10.4 | 5.1 | 7.0 | 0.45 | 0.42 | 10.0 | 3.2 |
| WF146WA02 | 5¾ | 8 | to 3.5k | 87.5 | 32 | ±3 | 95 | 58 | 9.7 | 6.4 | 7.0 | 0.54 | 0.51 | 10.0 | 6.3 |
| WF146WA05 | 5¾ | 4 | to 3.5k | 89.5 | 32 | ±3 | 93 | 48 | 11.1 | 5.0 | 6.9 | 0.43 | 0.40 | 12.3 | 3.2 |
| WF146WA06 | 5¾ | 8 | to 3.5k | 86.5 | 32 | ±3 | 93 | 49 | 10.6 | 6.4 | 6.8 | 0.51 | 0.47 | 12.3 | 6.4 |
| WF152BD03 | 6 | 4 | to 3.5k | 91 | 32 | ±4.5 | 93 | 55.5 | 11.0 | 5.8 | 8.9 | 0.36 | 0.35 | 9.2 | 3.2 |
| WF152BD04 | 6 | 8 | to 3.5k | 88.5 | 32 | ±4.5 | 93 | 56.5 | 10.6 | 7.3 | 8.7 | 0.44 | 0.42 | 9.2 | 6.3 |
| WF152BD05 | 6 | 4 | to 3k | 90 | 32 | ±4.5 | 93 | 50 | 13.5 | 6.35 | 10.3 | 0.34 | 0.33 | 9.2 | 3.2 |
| WF152BD06 | 6 | 8 | to 3k | 87 | 32 | ±4.5 | 93 | 51.5 | 12.8 | 8.0 | 10.1 | 0.41 | 0.39 | 9.2 | 6.3 |
| WF168WA01 | 6½ | 4 | to 3k | 91.5 | 32 | ±3 | 139 | 47.5 | 12.5 | 5.1 | 7.0 | 0.46 | 0.43 | 24.6 | 3.2 |
| WF168WA02 | 6½ | 8 | to 3k | 89 | 32 | ±3 | 139 | 49 | 11.8 | 6.4 | 7.1 | 0.56 | 0.52 | 24.6 | 6.3 |
| WF168WA05 | 6½ | 4 | to 3k | 91 | 32 | ±3 | 131 | 40 | 14.0 | 5.0 | 7.2 | 0.45 | 0.42 | 27.7 | 3.2 |
| WF168WA06 | 6½ | 8 | to 3k | 88 | 32 | ±3 | 131 | 41 | 13.4 | 6.4 | 7.0 | 0.54 | 0.50 | 27.7 | 6.4 |
| WF182BD03 / -07 | 7 | 4 | to 2.5k | 91 | 39 | ±5.5 | 131 | 39 | 16.7 | 6.75 | 11 | 0.30 | 0.29 | 24.4 | 3.3 |
| WF182BD04 / -08 | 7 | 8 | to 2.5k | 88 | 39 | ±5.5 | 131 | 40 | 16.1 | 8.5 | 10.9 | 0.35 | 0.34 | 24.4 | 6.3 |
| WF182BD09 / -11 | 7 | 4 | to 2.5k | 90 | 39 | ±5.5 | 131 | 33 | 23.4 | 6.5 | 10.9 | 0.37 | 0.35 | 24.3 | 3.2 |
| WF182BD10 / -12 | 7 | 8 | to 2.5k | 87 | 39 | ±5.5 | 131 | 34 | 21.9 | 8.2 | 10.5 | 0.44 | 0.42 | 24.3 | 6.4 |
| WF223BD01 | 8¾ | 4 | to 2k | 89.5 | 39 | ±5.5 | 131 | 33 | 23.4 | 6.5 | 10.9 | 0.37 | 0.35 | 24.3 | 3.2 |
| WF223BD02 | 8¾ | 8 | to 2k | 86.5 | 39 | ±5.5 | 131 | 34 | 21.9 | 8.2 | 10.5 | 0.44 | 0.42 | 24.3 | 6.4 |

All specifications are measured at 25 °C (77 °F) and are before burn-in.

Driver specifications, subwoofers

Latest update: June 19, 2017

| Model no. | Nom. size | Nom. imp. | Freq. range | Sensitivity | VC. diam. | X _{max} | S _d | F _s | M _{ms} | Bxl | Q _{ms} | Q _{es} | Q _{ts} | V _{as} | R _{DC} |
|--------------|-----------|-----------|-------------|---------------|-----------|------------------|--------------------|----------------|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | [inch.] | [ohm] | [Hz] | [dB@2.83V/1m] | [mm] | [mm] | [cm ²] | [Hz] | [g] | [N/A] | [-] | [-] | [-] | [lit.] | [ohm] |
| SW070WA01 | 2¾ | 4 | to 4,000 | 84.5 | 26 | ±2.5 | 22 | 84 | 3.65 | 3.85 | 6.4 | 0.42 | 0.39 | 0.68 | 3.2 |
| SW070WA02 | 2¾ | 8 | to 4,000 | 81 | 26 | ±2.5 | 22 | 87 | 3.4 | 4.75 | 6.2 | 0.53 | 0.49 | 0.68 | 6.4 |
| SW118WA01 | 4½ | 4 | to 1,200 | 86 | 26 | ±4 | 49 | 58 | 7.9 | 4.7 | 8.4 | 0.41 | 0.39 | 3.3 | 3.2 |
| SW118WA02 | 4½ | 8 | to 1,200 | 83.5 | 26 | ±4 | 49 | 60 | 7.3 | 5.9 | 8.1 | 0.50 | 0.47 | 3.3 | 6.3 |
| SW146WA01 | 5¾ | 4 | to 500 | 88 | 32 | ±6 | 55 | 51 | 18.3 | 5.9 | 9.5 | 0.50 | 0.48 | 5.5 | 3.0 |
| SW146WA02 | 5¾ | 8 | to 500 | 85 | 32 | ±6 | 55 | 54 | 16.2 | 7.8 | 9.0 | 0.57 | 0.53 | 5.5 | 6.3 |
| SW168WA01 | 6½ | 4 | to 500 | 88.5 | 32 | ±7 | 127 | 43 | 32.5 | 7.5 | 10.2 | 0.47 | 0.45 | 9.6 | 3.0 |
| SW178WA01 | 7 | 8 | to 600 | 85 | 39 | ±5 | 131 | 36 | 35 | 11.7 | 17.6 | 0.38 | 0.37 | 13.6 | 6.5 |
| PR178WA01 | 7 | passive | - | - | - | - | 131 | 19.9-26 | 50-85 | - | 24 | - | - | 17 | - |
| SW182BD03 | 7 | 4 | to 600 | 84 | 39 | ±7 | 131 | 35.1 | 39.5 | 7.6 | 13.3 | 0.45 | 0.44 | 12.7 | 3.0 |
| SW182BD04 | 7 | 8 | to 600 | 81.5 | 39 | ±7 | 131 | 37.2 | 35.2 | 10.2 | 12.6 | 0.51 | 0.49 | 12.7 | 6.4 |
| PR182BD02 | 7 | passive | - | - | - | - | 131 | 36.2 | 37 | - | 32.5 | - | - | 12.7 | - |
| SW215WA01 | 8½ | 4 | to 500 | 88.5 | 39 | ±10 | 206 | 33 | 53 | 8.45 | 11 | 0.51 | 0.49 | 26 | 3.3 |
| SW215WA02 | 8½ | 8 | to 500 | 86 | 39 | ±10 | 206 | 35 | 49 | 11.4 | 10.7 | 0.52 | 0.49 | 26 | 6.3 |
| SW223BD02 | 8¾ | 4 | to 1,000 | 83 | 51 | ±10.7 | 206 | 24 | 97 | 11.0 | 10.7 | 0.42 | 0.40 | 28 | 3.5 |
| SW223BD03 | 8¾ | 8 | to 1,000 | 81 | 51 | ±10.7 | 206 | 23 | 89 | 13.1 | 10.2 | 0.48 | 0.46 | 28 | 6.0 |
| PR223BD02 | 8¾ | passive | - | - | - | - | 206 | 8.5-15 | 162-512 | - | 19 | - | - | 41.6 | - |
| SW259WA01 | 10% | 4 | to 400 | 83.5 | 51 | ±11.5 | 312 | 29 | 173 | 14.5 | 10.0 | 0.49 | 0.46 | 25 | 6.3 |
| SW259WA02 | 10% | 8 | to 400 | 81.5 | 51 | ±11.5 | 312 | 24 | 158 | 18.6 | 14.2 | 0.44 | 0.43 | 40 | 3.4 |
| PR259WA01 | 10% | passive | - | - | - | - | 312 | 11.9-18.1 | 266-616 | - | 26 | - | - | 40 | - |
| SW270WA01 | 10½ | 4 | to 400 | 88 | 51 | ±11 | 312 | 28 | 88 | 9.7 | 8.1 | 0.53 | 0.49 | 51 | 3.2 |
| PR270WA01 | 10½ | passive | - | - | - | - | 312 | 16.3-26 | 112-287 | - | 24 | - | - | 46 | - |
| SW275BD01 | 10% | 4 | to 400 | 86 | 64 | ±16 | 314 | 30.7 | 122 | 12.1 | 12.7 | 0.60 | 0.57 | 31 | 3.7 |
| SW275BD02 | 10% | 8 | to 400 | 83 | 64 | ±16 | 314 | 31.5 | 116 | 15.2 | 12.4 | 0.71 | 0.67 | 31 | 7.1 |
| PR275BD01 | 10% | passive | - | - | - | - | 314 | | | - | | - | - | | - |
| SW312WA03/05 | 12¾ | 4 | to 300 | 90 | 51 | ±11.5 | 488 | 28 | 185 | 14.5 | 11.5 | 0.50 | 0.48 | 61 | 3.2 |
| SW312WA04/06 | 12¾ | 8 | to 300 | 87 | 51 | ±11.5 | 488 | 29 | 172 | 18.4 | 11.0 | 0.60 | 0.57 | 61 | 6.6 |
| PR312WA02/03 | 12¾ | passive | - | - | - | - | 488 | 12.2-18.4 | 278-628 | - | 27 | - | - | 91 | - |

All specifications are measured at 25 °C (77 °F) and are before burn-in.