

THE SOUND OF A GREAT SHOW

Celestion compression drivers and LF drivers are designed and engineered for high performance and reliability in a range of professional sound reinforcement applications. Use these charts to locate the driver that matches your cabinet design.

LOW FREQUENCY PRODUCT APPLICATION GUIDE

FULL RANGE/SATELLITES

| Driver Diameter | Compact Box Reflex | Large Box Reflex | Closed Box | Dedicated Mid Range | |
|-----------------|--|---|--|---|--|
| 5" | TF0510 5" FERRITE 30W AES 1" COIL 91dB 1.1mm Xmax | TF0510 5" FERRITE 30W AES 1" COIL 91dB 1.1mm Xmax | | TF0510 5" FERRITE 30W AES 1" COIL 91dB 1.1mm Xmax | |
| 6.5" | | NTR06-1705D 6.5" NEO 150W AES 1.75" COIL 90dB 4.5mm Xmax | NTR06-1705D 6.5" NEO 150W AES 1.75" COIL 90dB 4.5mm Xmax | TF0615MR 6.5" FERRITE 50W AES 1.5" COIL 97dB NTR06-1705B 6.5" NEO 150W AES 1.75" COIL 95dB 2.5mm Xmax | |
| 8" | NTR08-2009D 8" NEO 200W AES 2" COIL 94.5dB 4mm Xmax NTR08-2011D 8" NEO 200W AES 2" COIL 92dB 4mm Xmax TN0820 8" NEO 150W AES 2" COIL 94dB 2mm Xmax | TF0818 8" FERRITE 100W AES 1.75" COIL 94dB 3.5mm Xmax NTR08-2011D 8" NEO 200W AES 2" COIL 92dB 4mm Xmax TF0818 8" FERRITE 100W AES 1.75" COIL 94dB 3.5mm Xmax | NTR08-2011D 8" NEO 200W AES 2" COIL 92dB 4mm Xmax TF0818 8" FERRITE 100W AES 1.75" COIL 94dB 3.5mm Xmax TN0820 8" NEO 150W AES 2" COIL 94dB 2mm Xmax | TF0818MR 8" FERRITE 100W AES 1.75" COIL 99dB NTR08-2009D 8" NEO 200W AES 2" COIL 94.5dB 4mm Xmax | |
| 10" | NTR10-2520E 10" NEO 250W AES 2.5" COIL 96dB 5mm Xmax NTR10-2520D 10" NEO 250W AES 2.5" COIL 96dB 4mm Xmax | TN1020 10" NEO 150W AES 2" COIL 98dB 2mm Xmax TF1020 10" FERRITE 150W AES 2" COIL 97dB 2mm Xmax NTR10-2520D 10" NEO 250W AES 2.5" COIL 96dB 4mm Xmax | NTR10-2520E 10" NEO 250W AES 2.5" COIL 96dB 5mm Xmax NTR10-2520D 10" NEO 250W AES 2.5" COIL 96dB 4mm Xmax | NTR10-2520E 10" NEO 250W AES 2.5" COIL 96dB 5mm Xmax NTR10-2520D 10" NEO 250W AES 2.5" COIL 96dB 4mm Xmax TF1018 10" FERRITE 100W AES 1.75" COIL 96dB 2mm Xmax | TN1020 10" NEO 150W AES 2" COIL 98dB 2mm Xmax TF1020 10" FERRITE 150W AES 2" COIL 97dB 2mm Xmax |
| 12" | NTR12-3018D 12" NEO 350W AES 3" COIL 98dB 4mm Xmax FTR12-3070C 12" FERRITE 350W AES 3" COIL 96dB 3mm Xmax TN1230 12" NEO 300W AES 3" COIL 97dB 3.75mm Xmax TN1225 12" NEO 250W AES 2.5" COIL 97dB 2.5mm Xmax | TF1225e 12" FERRITE 300W AES 2.5" COIL 96dB 3.5mm Xmax TF1225 12" FERRITE 250W AES 2.5" COIL 97dB 2.5mm Xmax TF1220 12" FERRITE 150W AES 2" COIL 97dB 2mm Xmax TF1215 12" FERRITE 100W AES 1.5" COIL 95dB 2mm Xmax | NTR12-3018D 12" NEO 350W AES 3" COIL 98dB 4mm Xmax FTR12-3070C 12" FERRITE 350W AES 3" COIL 96dB 3mm Xmax TN1230 12" NEO 300W AES 3" COIL 97dB 3.75mm Xmax TN1225 12" NEO 250W AES 2.5" COIL 97dB 2.5mm Xmax | TF1218TC 12" FERRITE 100W AES 1.75" COIL 98dB 1.5mm Xmax | |
| 15" | NTR15-3018E 15" NEO 450W AES 3" COIL 98dB 5mm Xmax FTR15-4080FD 15" FERRITE 1000W AES 4" COIL 97dB 6mm Xmax FTR15-4080F 15" FERRITE 600W AES 4" COIL 97dB 6mm Xmax FTR15-3070C 15" FERRITE 400W AES 3" COIL 99dB 3mm Xmax TN1525 15" NEO 250W AES 2.5" COIL 98dB 2.5mm Xmax | TF1530 15" FERRITE 400W AES 3" COIL 99dB 2mm Xmax TF1525e 15" FERRITE 300W AES 2.5" COIL 97dB 3.5mm Xmax TF1525 15" FERRITE 250W AES 2" COIL 98dB 2.5mm Xmax TF1520 15" FERRITE 150W AES 2" COIL 96dB 3mm Xmax | NTR15-3018E 15" NEO 450W AES 3" COIL 98dB 5mm Xmax FTR15-4080F 15" FERRITE 600W AES 4" COIL 97dB 6mm Xmax FTR15-3070E 15" FERRITE 400W AES 3" COIL 97dB 5.5mm Xmax TN1530 15" NEO 300W AES 3" COIL 98dB 3.75mm Xmax | | |

Note: All drivers are 8 Ohm impedance as standard. Contact your Main Celestion Distributor for information on alternatives impedances

COMPRESSION DRIVERS

| Exit Size | Bolt-on | | | | | | | | | Screw on | | | | | | | |
|-----------|------------|---------|-----------|------------|----------|---------|------------|---------|--------------|------------|------------|---------|------------|------------|-----------|-------|--|
| 1" | CDX1-1425 | | | CDX1-1430 | | | CDX1-1730 | | | CDX1-1446 | | | | | | | |
| | 1" NEO | 25W AES | 1.4" COIL | 108dB | 1" NEO | 50W AES | 1.4" COIL | 108dB | 1" NEO | 75W AES | 1.75" COIL | 110dB | 1" FERRITE | 20W AES | 1.4" COIL | 106dB | |
| | CDX1-1445 | | | CDX1-1720 | | | CDX1-1745 | | | CDX1-1731 | | | | | | | |
| | 1" FERRITE | 20W AES | 1.4" COIL | 106dB | 1" NEO | 50W AES | 1.75" COIL | 107dB | 1" FERRITE | 20W AES | 1.75" COIL | 110dB | CDX1-1746 | | | | |
| | | | | | | | | | | 1" FERRITE | | | 75W AES | 1.75" COIL | 110dB | | |
| 1.4" | CDX14-2420 | | | CDX14-3050 | | | CDX14-3060 | | | | | | | | | | |
| | 1.4" NEO | 70W AES | 2.4" COIL | 106.5dB | 1.4" NEO | 75W AES | 3" COIL | 106.5dB | 1.4" FERRITE | 75W AES | 3" COIL | 106.5dB | | | | | |
| 2" | CDX20-3000 | | | | | | | | | | | | | | | | |
| | 2" NEO | 75W AES | 3" COIL | 107dB | | | | | | | | | | | | | |

Choosing the right LF speaker

- Identify application type
- Select correct driver size
- Pick appropriate power handling
- Closely match sensitivity (dB) and Xmax values
- Ensure PCD (hole positions) match enclosure, see table

Low frequency driver fixing dimensions

| Size | Chassis Type | Dimensions (PCD) | Baffle Hole Size |
|------|--------------|---------------------------|------------------|
| 21" | Aluminium | 520-528mm / 20.5-20.8in | 492mm / 19.37in |
| 18" | Aluminium | 432-440mm / 17.0-17.32in | 416mm / 16.38in |
| 15" | Aluminium | 367-373mm / 14.44-14.68in | 351mm / 13.82in |
| 12" | Aluminium | 298-304mm / 11.7-12.0in | 286mm / 11.26in |
| 10" | Aluminium | 244-247mm / 9.6-9.7in | 232mm / 9.13in |
| 8" | Aluminium | 210mm / 8.3in | 187mm / 7.4in |
| 6.5" | Aluminium | 173.5mm / 6.83in | 150mm / 5.9in |
| 15" | Steel | 369mm / 14.53in | 352mm / 13.86in |
| 12" | Steel | 297mm / 11.69in | 283mm / 11.14in |
| 10" | Steel | 245mm / 9.65in | 229mm / 9.02in |
| 8" | Steel | 196mm / 7.72in | 183mm / 7.2in |
| 6" | Steel | 168.5mm / 6.63in | 147mm / 5.79in |
| 5" | Steel | 140mm / 5.51in | 117mm / 4.61in |
| 4" | Steel | 109mm / 4.3in | 95mm / 3.7in |

SUBWOOFER

Driver Diameter



| | | | | | | | | | | | | | | | | | | | | |
|------|---------------|-----------|------------|--------------|-------------|-------------|---------------|------------|-------------|---------------|-------------|-------------|------------|-----------|------------|-------------|-----------|---------|------|----------|
| 6.5" | NTR06-1705D | | | NTR06-1705D | | | NTR06-1705D | | | NTR06-1705D | | | | | | | | | | |
| | 6.5" NEO | 150W AES | 1.75" COIL | 90dB | 4.5mm Xmax | 6.5" NEO | 150W AES | 1.75" COIL | 90dB | 4.5mm Xmax | 6.5" NEO | 150W AES | 1.75" COIL | 90dB | 4.5mm Xmax | | | | | |
| 8" | NTR08-2011D | | | TN0820 | | | TN0820 | | | NTR08-2011D | | | | | | | | | | |
| | 8" NEO | 200W AES | 2" COIL | 92dB | 4mm Xmax | 8" NEO | 150W AES | 2" COIL | 94dB | 2mm Xmax | 8" NEO | 150W AES | 2" COIL | 94dB | 2mm Xmax | 8" NEO | 200W AES | 2" COIL | 92dB | 4mm Xmax |
| 10" | NTR10-2520D | | | | | | | | | NTR10-2520D | | | | | | | | | | |
| | 10" NEO | 250W AES | 2.5" COIL | 96dB | 4mm Xmax | | | | | | | 10" NEO | 250W AES | 2.5" COIL | 96dB | 4mm Xmax | | | | |
| | NTR10-2520E | | | | | | | | | NTR10-2520E | | | | | | | | | | |
| | 10" NEO | 250W AES | 2.5" COIL | 96dB | 5mm Xmax | | | | | | | 10" NEO | 250W AES | 2.5" COIL | 96dB | 5mm Xmax | | | | |
| 12" | FTR12-4080HDX | | | TF1225e | | | FTR12-4080HDX | | | FTR12-4080HDX | | | | | | | | | | |
| | 12" FERRITE | 1000W AES | 4" COIL | 93dB | 8mm Xmax | 12" FERRITE | 300W AES | 2.5" COIL | 96dB | 3.5mm Xmax | 12" FERRITE | 1000W AES | 4" COIL | 93dB | 8mm Xmax | 12" FERRITE | 1000W AES | 4" COIL | 93dB | 8mm Xmax |
| | TN1230 | | | | | | | | | TF1225e | | | | | | | | | | |
| | 12" NEO | 300W AES | 3" COIL | 97dB | 3.75mm Xmax | | | | | | | 12" FERRITE | 300W AES | 2.5" COIL | 96dB | 3.5mm Xmax | | | | |
| 15" | FTR15-4080HDX | | | TF1525e | | | NTR15-3018E | | | FTR15-4080HDX | | | | | | | | | | |
| | 15" FERRITE | 1000W AES | 4" COIL | 96dB | 8mm Xmax | 15" FERRITE | 300W AES | 2.5" COIL | 97dB | 3.5mm Xmax | 15" NEO | 450W AES | 3" COIL | 98dB | 5mm Xmax | 15" FERRITE | 1000W AES | 4" COIL | 96dB | 8mm Xmax |
| | FTR15-4080F | | | | | | FTR15-4080FD | | | FTR15-4080FD | | | | | | | | | | |
| | 15" FERRITE | 600W AES | 4" COIL | 97dB | 6mm Xmax | | | | 15" FERRITE | | | 1000W AES | 4" COIL | 97dB | 6mm Xmax | | | | | |
| | FTR15-3070E | | | | | | | | | FTR15-3070E | | | | | | | | | | |
| | 15" FERRITE | 400W AES | 3" COIL | 97dB | 5.5mm Xmax | | | | | | | 15" FERRITE | 400W AES | 3" COIL | 97dB | 5.5mm Xmax | | | | |
| 18" | CF18VJD | | | CF18VJD | | | CF18VJD | | | CF18VJD | | | | | | | | | | |
| | 18" FERRITE | 1600W AES | 5" COIL | 97dB | 9mm Xmax | 18" FERRITE | 1600W AES | 5" COIL | 97dB | 9mm Xmax | 18" FERRITE | 1600W AES | 5" COIL | 97dB | 9mm Xmax | 18" FERRITE | 1600W AES | 5" COIL | 97dB | 9mm Xmax |
| | FTR18-4080HDX | | | FTR18-4080FD | | | FTR18-4080HDX | | | FTR18-4080HDX | | | | | | | | | | |
| | 18" FERRITE | 1000W AES | 4" COIL | 95dB | 8mm Xmax | 18" FERRITE | 1000W AES | 4" COIL | 97dB | 6mm Xmax | 18" FERRITE | 1000W AES | 4" COIL | 95dB | 8mm Xmax | 18" FERRITE | 1000W AES | 4" COIL | 95dB | 8mm Xmax |
| | FTR18-4080F | | | | | | | | | FTR18-4080FD | | | | | | | | | | |
| | 18" FERRITE | 600W AES | 4" COIL | 97dB | 6mm Xmax | | | | | | | 18" FERRITE | 1000W AES | 4" COIL | 97dB | 6mm Xmax | | | | |
| 21" | NTR21-5010JD | | | NTR21-5010JD | | | NTR21-5010JD | | | NTR21-5010JD | | | | | | | | | | |
| | 21" NEO | 1600W AES | 5" COIL | 98dB | 9mm Xmax | 21" NEO | 1600W AES | 5" COIL | 98dB | 9mm Xmax | 21" NEO | 1600W AES | 5" COIL | 98dB | 9mm Xmax | 21" NEO | 1600W AES | 5" COIL | 98dB | 9mm Xmax |

A word about power

There are various ways of measuring the power of a loudspeaker – some more flattering than others. Celestion uses the AES standard because it's scientific and reliable. While there is no consistent correlation between AES, EIA and Music Program Power, the scale below provides a rough guide to compare how an individual speaker might rate using each measurement method.

| | | |
|-------|-------|-------|
| 1500W | 1000W | 2000W |
| 1400W | 900W | 1800W |
| 1300W | 800W | 1700W |
| 1200W | 800W | 1600W |
| 1100W | 700W | 1500W |
| 1000W | 700W | 1400W |
| 900W | 600W | 1300W |
| 800W | 600W | 1200W |
| 700W | 500W | 1100W |
| 600W | 500W | 1000W |
| 500W | 400W | 900W |
| 400W | 400W | 700W |
| 300W | 300W | 600W |
| 200W | 200W | 500W |
| 100W | 100W | 300W |
| 100W | 100W | 200W |
| 100W | 100W | 100W |

EIA Standard Power AES Standard Power Music Program Power

Range descriptions

Neodymium magnet aluminium chassis

Ferrite magnet aluminium chassis

Neodymium magnet steel chassis

Ferrite magnet steel chassis