

Low frequency speaker application guide

Celestion 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.

Driver Diameter	FULL RANGE/SATELLITES			
	Compact Box Reflex	Large Box Reflex	Closed Box	Dedicated Mid Range
5"	TF0510 30W AES, 1" COIL, 91dB, 1.1mm Xmax	TF0510 30W AES, 1" COIL, 91dB, 1.1mm Xmax	TF0510 30W AES, 1" COIL, 91dB, 1.1mm Xmax	TF0510 30W AES, 1" COIL, 91dB, 1.1mm Xmax
6.5"	TF0615 100W AES, 1.5" COIL, 95dB, 2.5mm Xmax NTR06-1705D 150W AES, 1.75" COIL, 90dB, 4.5mm Xmax	NTR06-1705D 150W AES, 1.75" COIL, 90dB, 4.5mm Xmax	TF0615 100W AES, 1.5" COIL, 95dB, 2.5mm Xmax NTR06-1705D 150W AES, 1.75" COIL, 90dB, 4.5mm Xmax	TF0615MR 50W AES, 1.5" COIL, 97dB, 2.5mm Xmax CF0617M 200W AES, 1.75" COIL, 96dB, 1.2mm Xmax NTR06-1705B 150W AES, 1.75" COIL, 95dB, 2.5mm Xmax
8"	TF0818 100W AES, 1.75" COIL, 94dB, 3.5mm Xmax FTR08-2011D 200W AES, 2" COIL, 93dB, 3.5mm Xmax NTR08-2009D 200W AES, 2" COIL, 92dB, 4mm Xmax NTR08-2011D 200W AES, 2" COIL, 92dB, 4mm Xmax	TF0818 100W AES, 1.75" COIL, 94dB, 3.5mm Xmax FTR08-2011D 200W AES, 2" COIL, 93dB, 3.5mm Xmax NTR08-2011D 200W AES, 2" COIL, 92dB, 4mm Xmax	TF0818 100W AES, 1.75" COIL, 94dB, 3.5mm Xmax FTR08-2011D 200W AES, 2" COIL, 93dB, 3.5mm Xmax NTR08-2011D 200W AES, 2" COIL, 92dB, 4mm Xmax	TF0818 100W AES, 1.75" COIL, 94dB, 3.5mm Xmax FTR08-2011D 200W AES, 2" COIL, 93dB, 3.5mm Xmax NTR08-2009D 200W AES, 2" COIL, 94.5dB, 4mm Xmax
10"	TF1020 150W AES, 2" COIL, 97dB, 2mm Xmax CF1025C 300W AES, 2.5" COIL, 99dB, 2.5mm Xmax TN1020 150W AES, 2" COIL, 98dB, 2mm Xmax NTR10-2520D 250W AES, 2.5" COIL, 96dB, 4mm Xmax NTR10-2520E 250W AES, 2.5" COIL, 96dB, 5mm Xmax	TF1020 150W AES, 2" COIL, 97dB, 2mm Xmax NTR10-2520D 250W AES, 2.5" COIL, 96dB, 4mm Xmax NTR10-2520E 250W AES, 2.5" COIL, 96dB, 5mm Xmax	BL10-200X 200W AES, 2" COIL, 94dB, 4mm Xmax CF1025C 300W AES, 2.5" COIL, 99dB, 2.5mm Xmax NTR10-2520D 250W AES, 2.5" COIL, 96dB, 4mm Xmax NTR10-2520E 250W AES, 2.5" COIL, 96dB, 5mm Xmax	TF1020 150W AES, 2" COIL, 97dB, 2mm Xmax
12"	TF1218 100W AES, 1.75" COIL, 97dB, 2mm Xmax TF1220 150W AES, 2" COIL, 97dB, 2mm Xmax TF1225 250W AES, 2.5" COIL, 97dB, 2.5mm Xmax TF1225e 300W AES, 2.5" COIL, 97dB, 2.5mm Xmax FTR12-3070C 350W AES, 3" COIL, 96dB, 3mm Xmax NTR12-3018D 350W AES, 3" COIL, 98dB, 4mm Xmax	TF1220 150W AES, 2" COIL, 97dB, 2mm Xmax TF1225 250W AES, 2.5" COIL, 97dB, 2.5mm Xmax TF1225e 300W AES, 2.5" COIL, 97dB, 2.5mm Xmax FTR12-3070C 350W AES, 3" COIL, 96dB, 3mm Xmax NTR12-3018D 350W AES, 3" COIL, 98dB, 4mm Xmax	K12H-100TC: Twin Cone 100W AES, 1.75" COIL, 97dB, 1mm Xmax K12H-200TC: Twin Cone 200W AES, 2" COIL, 98dB, 2mm Xmax TF1225CX 250W AES, 2.5" COIL, 97dB, 2.5mm Xmax	TF1225 250W AES, 2.5" COIL, 97dB, 2.5mm Xmax
15"	TF1520 150W AES, 2" COIL, 96dB, 3mm Xmax TF1525 250W AES, 2.5" COIL, 98dB, 2.5mm Xmax TF1525e 300W AES, 2.5" COIL, 97dB, 3.5mm Xmax TF1530 400W AES, 3" COIL, 99dB, 2mm Xmax FTR15-3070C 400W AES, 3" COIL, 99dB, 3mm Xmax FTR15-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax FTR15-4080FD 1000W AES, 4" COIL, 97dB, 6mm Xmax	TF1520 150W AES, 2" COIL, 96dB, 3mm Xmax TF1525 250W AES, 2.5" COIL, 98dB, 2.5mm Xmax TF1525e 300W AES, 2.5" COIL, 97dB, 3.5mm Xmax TF1530 400W AES, 3" COIL, 99dB, 2mm Xmax FTR15-3070E 600W AES, 4" COIL, 97dB, 6mm Xmax FTR15-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax FTR15-4080FD 1000W AES, 4" COIL, 96dB, 8mm Xmax	NTR15-3018E 450W AES, 3" COIL, 98dB, 5mm Xmax	TF1520 150W AES, 2" COIL, 96dB, 3mm Xmax TF1525 250W AES, 2.5" COIL, 98dB, 2.5mm Xmax TF1525e 300W AES, 2.5" COIL, 97dB, 3.5mm Xmax TF1530 400W AES, 3" COIL, 99dB, 2mm Xmax FTR15-3070E 600W AES, 4" COIL, 97dB, 6mm Xmax FTR15-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax FTR15-4080FD 1000W AES, 4" COIL, 96dB, 8mm Xmax

Low frequency driver fixing dimensions

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



Driver Diameter	SUBWOOFER			
	Reflex	Horn	Band Pass	Scoop
6.5"	NTR06-1705D 150W AES, 1.75" COIL, 90dB, 4.5mm Xmax		NTR06-1705D 150W AES, 1.75" COIL, 90dB, 4.5mm Xmax	
8"	FTR08-2011D 200W AES, 2" COIL, 93dB, 3.5mm Xmax NTR08-2011D 200W AES, 2" COIL, 92dB, 4mm Xmax		FTR08-2011D 200W AES, 2" COIL, 93dB, 3.5mm Xmax NTR08-2011D 200W AES, 2" COIL, 92dB, 4mm Xmax	
10"	NTR10-2520D 250W AES, 2.5" COIL, 96dB, 4mm Xmax NTR10-2520E 250W AES, 2.5" COIL, 96dB, 5mm Xmax		NTR10-2520D 250W AES, 2.5" COIL, 96dB, 4mm Xmax NTR10-2520E 250W AES, 2.5" COIL, 96dB, 5mm Xmax	
12"	FTR12-4080HDX 1000W AES, 4" COIL, 93dB, 8mm Xmax	TF1225e 300W AES, 2.5" COIL, 96dB, 3.5mm Xmax	TF1225e 300W AES, 2.5" COIL, 96dB, 3.5mm Xmax FTR12-4080HDX 1000W AES, 4" COIL, 93dB, 8mm Xmax	FTR12-4080HDX 1000W AES, 4" COIL, 93dB, 8mm Xmax
15"	TF1525e 300W AES, 2.5" COIL, 97dB, 3.5mm Xmax TF1530e 400W AES, 3" COIL, 98dB, 4.7mm Xmax FTR15-3070E 400W AES, 3" COIL, 97dB, 5.5mm Xmax FTR15-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax FTR15-4080HDX 1000W AES, 4" COIL, 96dB, 8mm Xmax	TF1530e 400W AES, 3" COIL, 98dB, 4.7mm Xmax FTR15-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax NTR15-3018E 450W AES, 3" COIL, 98dB, 5mm Xmax	FTR15-4080FD 1000W AES, 4" COIL, 97dB, 6mm Xmax NTR15-3018E 450W AES, 3" COIL, 98dB, 5mm Xmax FTR15-3070E 400W AES, 3" COIL, 97dB, 5.5mm Xmax FTR15-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax FTR15-4080HDX 1000W AES, 4" COIL, 96dB, 8mm Xmax	FTR15-4080HDX 1000W AES, 4" COIL, 96dB, 8mm Xmax
18"	FTR18-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax FTR18-4080FD 1000W AES, 4" COIL, 97dB, 6mm Xmax CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax CF18VJD 1600W AES, 5" COIL, 97dB, 9mm Xmax	CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax FTR18-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax CF1840JD 1000W AES, 4" COIL, 98dB, 10mm Xmax CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax CF18VJD 1600W AES, 5" COIL, 97dB, 9mm Xmax	FTR18-4080F 600W AES, 4" COIL, 97dB, 6mm Xmax FTR18-4080FD 1000W AES, 4" COIL, 97dB, 6mm Xmax CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax FTR18-4080HDX 1000W AES, 4" COIL, 95dB, 8mm Xmax CF18VJD 1600W AES, 5" COIL, 97dB, 9mm Xmax	CF1830E 700W AES, 3" COIL, 94dB, 5mm Xmax FTR18-4080HDX 1000W AES, 4" COIL, 95dB, 8mm Xmax CF18VJD 1600W AES, 5" COIL, 97dB, 9mm Xmax
21"	NTR21-5010JD 1600W AES, 5" COIL, 98dB, 9mm Xmax		NTR21-5010JD 1600W AES, 5" COIL, 98dB, 9mm Xmax NTR21-5010JD 1600W AES, 5" COIL, 98dB, 9mm Xmax NTR21-5010JD 1600W AES, 5" COIL, 98dB, 9mm Xmax	NTR21-5010JD 1600W AES, 5" COIL, 98dB, 9mm Xmax

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

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	700W	1600W
1100W	600W	1500W
1000W	500W	1400W
900W	400W	1300W
800W	300W	1200W
700W	200W	1100W
600W	100W	1000W
500W	100W	900W
400W	100W	800W
300W	100W	700W
200W	100W	600W
100W	100W	500W

EIA Standard Power AES Standard Power Music Program Power

Range descriptions

Neodymium magnet

Ferrite magnet

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