CELESTION

EXTENDED EXCURSION DRIVERS

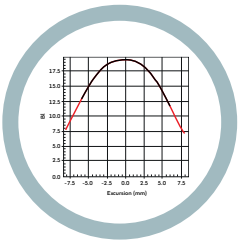
CELESTION

Precision Engineered For Superior Performance And Durability

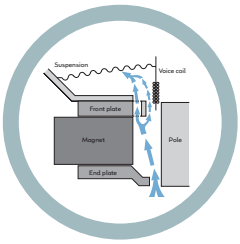
Designed and engineered for the most demanding professional sound reinforcement applications, Celestion extended excursion drivers combine advanced cone control and motor cooling features to deliver superior performance and enhanced durability with greater Xmax and enhanced low end performance. This range of ferrite magnet bass/mid-bass models is available in a range of cast aluminium chassis sizes and power ratings.

Key Technologies

Elastomer surround enables greater excursion delivering more low end



Optimised T-Pole improves cone displacement symmetry, reducing distortion



Balanced airflow venting provides enhanced cooling, minimising power compression

Coated cones for water resistance and overall greater durability

Extended Excursion Bass/Mid-Bass Drivers

CF0820BMB

8-inch, cast aluminium chassis, ferrite magnet mid/bass driver

500W Continuous Power Rating	**93dB** Sensitivity
2in Voice Coil Diameter	**7.25mm/ 0.29in** Xmax

CF1025BMB

10-inch, cast aluminium chassis, ferrite magnet LF driver

600W Continuous Power Rating	**92.5dB** Sensitivity
2.5in Voice Coil Diameter	**6.65mm/ 0.26in** Xmax

CF1230BMB

12-inch, cast aluminium chassis, ferrite magnet LF driver

700W Continuous Power Rating	**96dB** Sensitivity
3in Voice Coil Diameter	**7mm/ 0.28in** Xmax

Extended Excursion Subwoofer

FTR12-4080DL

12-inch, cast aluminium chassis, ferrite magnet LF driver

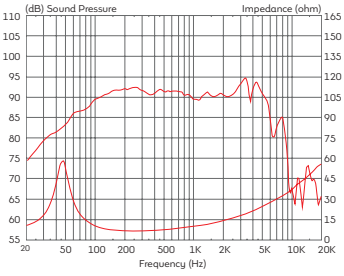
1400W Continuous Power Rating	**88dB** Sensitivity	**4in** Voice Coil Diameter	**13.6mm/ 0.54in** Xmax



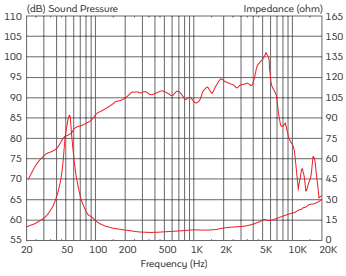

General Specifications	CF0820BMB	CF1025BMB	CF1230BMB	FTR12-4080DL
Nominal Diameter	200mm / 8in	254mm / 10in	305mm / 12in	305mm/12in
Nominal Power Rating	250W	300W	350W	700W
Continuous Power Rating	500W	600W	700W	1400W
Sensitivity	93dB	92.5dB	96dB	88dB
Rated Impedance	8Ω	8Ω	8Ω	8Ω
Frequency Range	50Hz-6000Hz	45Hz-5000Hz	50-3000Hz	20Hz-300Hz
Voice Coil Diameter	50mm / 2in	64mm / 2.4in	75mm / 3in	100mm/4in
Chassis Type	Cast aluminium	Cast Aluminium	Cast Aluminium	Cast Aluminium
Magnet Type	Ferrite	Ferrite	Ferrite	Ferrite
Voice Coil Material	Copper clad aluminium	Round copper	Copper clad aluminium	Round copper
Former Material	Glass fibre	Polyimide	Glass Fibre	Aluminium
Cone Material	Treated paper	Glass fibre loaded paper	Glass loaded paper (weather-resistant)	Glass loaded paper
Surround Material	Elastomer	Elastomer	Elastomer	Elastomer
Suspension	Single	Single	Single	Double
Xmax	7.25mm / 0.29in	6.65mm / 0.26in	7mm / 0.28in	13.6mm/0.54in
Gap Depth	8mm / 0.31in	8mm / 0.33in	8mm / 0.31in	9.5mm/0.37in
Voice Coil Winding Width	18.5mm / 0.73in	17.3mm / 0.68	18mm / 0.7in	32mm/1.26in
Overall Depth	108mm / 4.3in	124.5mm / 4.9in	155.5mm / 6.1	169mm/6.7in
Unit Weight	3.1kg / 6.8lb	4.3kg / 9.5lb	6.75kg / 14.9lb	10.2kg/22.4lb
Small Signal Parameters				
Sd	226.98cm² / 35.18in²	346.36cm² / 53.69in²	3530.93cm² / 82.3in²	530.93cm²/82.29in²
Fs	50.50Hz	40.9Hz	43.4Hz	28.90Hz
Mms	32.35g / 1.14oz	55.865g / 1.97oz	88.41g / 3.12oz	176.07g/6.21oz
Qms	5.095	7.952	4.451	2.466
Qes	0.394	0.371	0.417	0.345
Qts	0.366	0.355	0.381	0.303
Re	5.45Ω	6.04Ω	5.84Ω	6.24Ω
Vas	22.42l / 0.79ft³	46.1l / 1.63ft³	60.68l / 2.14ft³	68.60l/2.42ft³
Bl	11.92Tm	15.28Tm	18.38Tm	24.05Tm
Cms	0.31mm/N	0.271mm/N	0.152mm/N	0.17mm/N
Rms	2.01kg/s	1.804kg/s	5.416kg/s	12.97kg/s
Le (at 1kHz)	0.78mH	1.15mH	0.713mH	2.07mH

Frequency Response and Impedance Curves

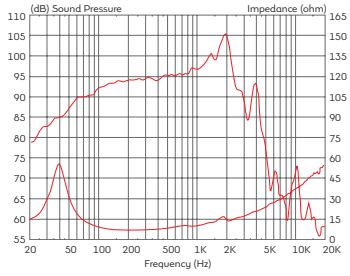
CF0820BMB



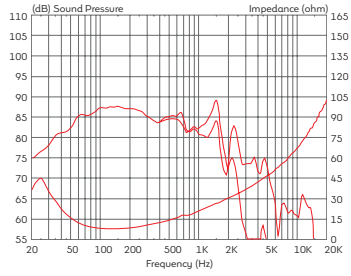
CF1025BMB



CF1230BMB



FTR12-4080DL



Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis | Power Rating: Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air. | Continuous Power Rating is defined as 3dB greater than the AES rating. | Sensitivity measured on axis at 1W, 1m in 2Π anechoic environment. | Xmax is derived from: (voice coil winding width-gap depth)/2. | Small Signal Parameters are measured after unit subjected to pre-conditioning signal.

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Please note that Celestion adopt a progressive policy and we reserve the right to alter drive unit specifications and/or appearance without prior notice. E&OE

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