CELESTION

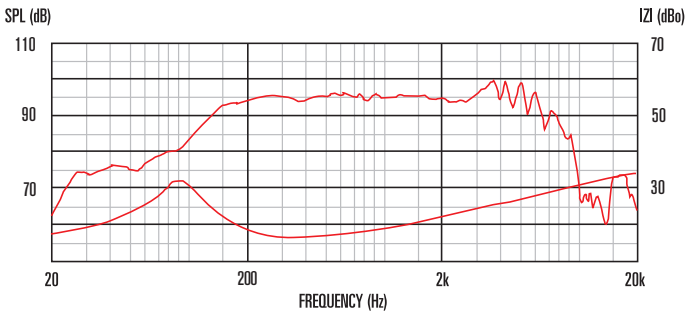
TF0818

Ferrite magnet steel chassis driver

Features

- 8" driver providing 94dB sensitivity and 100Wrms (AES standard) power handling
- 1.75" high temperature copper voice coil wound on polyimide former for increased reliability
- Achieves optimal performance in compact enclosures
- Exceptional performance through bass and mid-range
- Ideal for 2-way systems

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. 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.
2. Measured on axis at 1W, 1m in 2π anechoic environment.
3. Xmax derived from: (voice coil winding width-gap depth)/2.

General Specifications

Nominal diameter	203mm/8in
Power rating[1]	100Wrms
Nominal impedance	8Ω
Sensitivity[2]	94dB
Frequency range	70-6000Hz
Voice coil diameter	45mm/1.75in
Chassis type	Pressed steel
Magnet type	Ferrite
Magnet weight	0.88kg/31oz
Coil material	Round copper
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax[3]	3.5mm/0.14in
Gap depth	6mm/0.24in
Voice coil winding width	13mm/0.51in

Small Signal Parameters

D	0.17m/6.69in
Fs	95Hz
Mms	17.53g/0.62oz
Mmd	15.60g/0.55oz
Qms	3.83
Qes	0.50
Qts	0.44
Re	6.40Ω
Vas	12.6lt/0.44ft^3
Bl	11.36Tm
Cms	0.17mm/N
Rms	2.62kg/s
Le (at 1kHz)	0.75mH

Mounting Information

Overall diameter	208mm/8.19in
Overall depth	99mm/3.54in
Cut-out diameter	183mm/7.20in
Mounting slot dimensions	9.5mm x 5.5mm/0.37in x 0.22in
Number of mounting slots	4
Mounting PCD range	195-199mm/7.68-7.83in
Unit weight	2.3kg/5.1lb

Packed Dimensions & Weight

Single pack size W x D x H	230mm x 230mm x 110mm /9.1in x 9.1in x 4.3in
Single pack weight	3kg/6.6lb
Multi pack (140) size W x D x H	1070mm x 850mm x 860mm /42.1in x 33.5in x 33.9in
Multi pack (140) weight	435kg/959lb