CELESTION

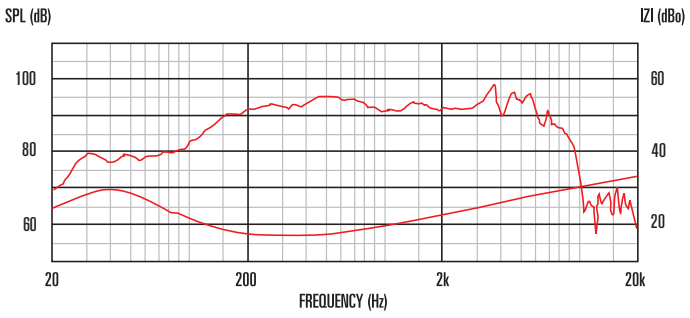
TN0820

Neodymium magnet steel chassis driver

Features

- **8" driver providing 94dB sensitivity and 150Wrms (AES standard) power handling**
- **2" high-temperature copper voice coil wound on polyimide for increased reliability**
- **Exceptional performance through bass and mid-range**
- **Features compact and lightweight neodymium magnet assembly**
- **Smart use of venting and specially designed heatsink for reduced thermal compression**
- **Effective flux management enables increased sensitivity**

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.
4. Small signal parameters measured after unit subjected to pre-conditioning signal.

General Specifications

Nominal diameter	203mm/8in
Power rating[1]	150Wrms
Nominal impedance	8Ω
Sensitivity[2]	94dB
Frequency range	60-4000Hz
Voice coil diameter	50mm/2in
Chassis type	Pressed steel
Magnet type	Neodymium
Coil material	Round copper
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax[3]	2mm/0.079in
Gap depth	8mm/0.32in
Voice coil winding width	12mm/0.47in

Small Signal Parameters[4]

D	0.17m/6.69in
Fs	42.80Hz
Mms	22.28g/0.79oz
Mmd	20.34g/0.72oz
Qms	1.34
Qes	0.28
Qts	0.23
Re	5.70Ω
Vas	45.34lt/1.6ft^3
Bl	11.09Tm
Cms	0.62mm/N
Rms	4.47kg/s
Le (at 1kHz)	0.64mH

Mounting Information

Overall Diameter	208mm/8.19in
Overall depth	100mm/3.94in
Cut out diameter	183mm/7.20in
Mounting slot dimensions	9.5mm x 5.5mm/0.37in x 0.22in
Number of mounting slots	8
Mounting slot PCD	196mm/7.72in
Unit weight	1.3kg/2.9lb

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	1.4kg/3.1lb
Multipack (120) size W x D x H	980mm x 880mm x 840mm /38.6in x 34.6in x 33.1in
Multipack (120) weight	200kg/441lb