

CELESTION

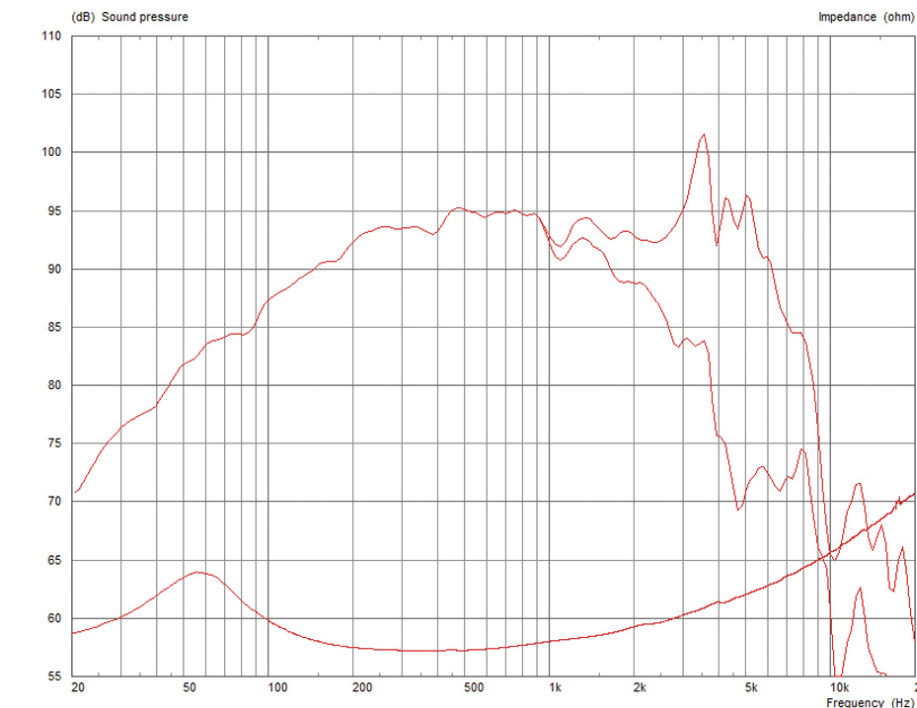
Legacy Loudspeakers

TN0820 (Legacy)



- Compact high flux Dual Magnet Motor design
- Vented aluminium heatsink

Frequency Response and Impedance Curves



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: Defined as 3dB greater than the AES rating.

Sensitivity: Measured on axis at 1W, 1m in 2 anechoic environment.

Parameters: Measured after unit subjected to pre-conditioning signal.

Xmax: Hvc-Hg/2

General Specifications

Nominal Diameter	203mm / 8in
Power Rating	150W
Continuous power rating	300W
EIA power rating	250W
Rated impedance	8
Sensitivity	94dB
Frequency range	60-4000Hz
Chassis type	Pressed steel
Magnet type	Neodymium
Voice coil diameter	50mm / 2in
Voice coil material	Round copper
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax	2mm / 0.08in
Gap height (Hg)	8mm / 0.32in
VC winding height (Hvc)	12mm / 0.47in

Mounting Information

Overall diameter	208mm / 8.19in
Overall depth	100mm / 3.9in
Cut-out diameter	183mm / 7.2in
Mounting hole dimensions	9.5x5.5mm / 0.37x0.22in
Number of mounting holes	8
Mounting hole PCD	196mm / 7.72in
Unit weight	1.3kg / 2.9lb

Parameters

Sd	226.98cm2 / 35.18in2
Fs	61.90Hz
Mms	21.98g / 0.78oz
Qms	1.563
Qes	0.346
Qts	0.283
Re	5.62
Vas	21.92l / 0.77ft3
Bi	11.79Tm
Cms	0.30mm/N
Rms	5.47kg/s
Le (at 1kHz)	0.65mH
Xmax	2mm / 0.08in

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
Multi pack qty	120
Multi pack size W x D x H	980mm x 880mm x 840mm / 38.6in x 34.6in x 33.1in
Multi pack weight	190kg / 420lb



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