CELESTION

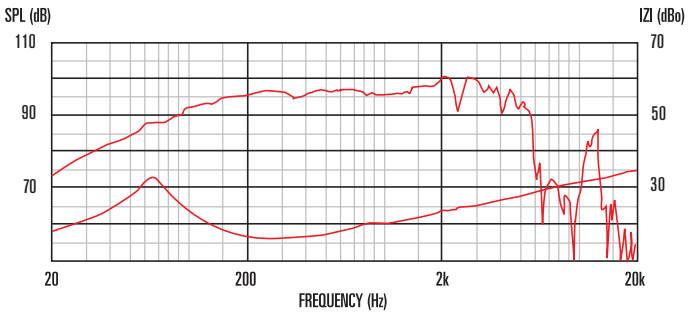
TF1020

Ferrite magnet steel chassis driver

Features

- 10" bass and mid-range driver provides 97dB sensitivity and 150Wrms (AES standard) power handling
- 2" High temperature copper voice coil wound on polyimide for increased reliability
- Ideally suited to compact enclosures and high pass systems
- Rigid chasis design for maximum energy transfer
- Kevlar-loaded cone with sealed surround and damping for reduced distortion

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	254mm/10in
Power rating[1]	150Wrms
Nominal impedance	8Ω
Sensitivity[2]	97dB
Frequency range	60-3000Hz
Voice coil diameter	50mm/2in
Chassis type	Pressed steel
Magnet type	Ferrite
Magnet weight	1.2kg/42oz
Coil material	Round copper
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax[3]	2mm/0.08in
Gap depth	8mm/0.31in
Voice coil winding width	12mm/0.47in

Small Signal Parameters

D	0.21m/8.27in
Fs	60.9Hz
Mms	30.92g/1.09oz
Mmd	27.27g/0.96oz
Qms	2.853
Qes	0.361
Qts	0.32
Re	5.79Ω
Vas	37.45lt/1.32ft^3
Bl	13.79Tm
Cms	0.221mm/N
Rms	4.15kg/s
Le (at 1kHz)	0.59mH

Mounting Information

Overall diameter	256mm/10.08in
Overall depth	110mm/4.33in
Cut-out diameter	229mm/9.02in
Mounting slot dimensions	8mm x 6mm/0.31in x 0.24in
Number of mounting slots	4
Mounting PCD range	245mm/9.65in
Unit weight	3.7kg/8.2lb

Packed Dimensions & Weight

Single pack size W x D x H	280mm x 280mm x 120mm /11.0in x 11.0in x 4.7in
Single pack weight	4kg/8.8lb
Multi pack (96) size W x D x H	1080mm x 880mm x 840mm /42.5in x 34.6in x 33.1in
Multi pack (96) weight	390kg/860lb