CELESTION

LF Pressed Chassis / Ferrite

TF1020

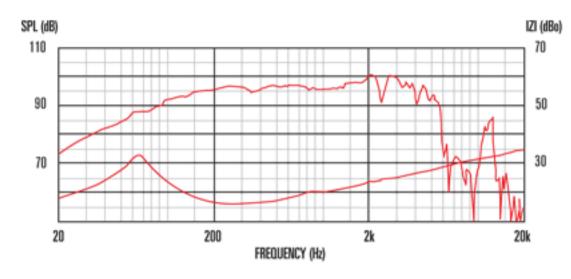






• 10" mid bass driver provides 97dB sensitivity and 150Wrms

8 Frequency Response



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. Continuous Power Rating is defined as 3dB greater than the AES rating.
- 3. Tested as per the EIA-426-A standard.
- 4. Measured on axis at 1W, 1m in $2\hat{I}$ anechoic environment.
- 5. Xmax derived from: (voice coil winding width-gap depth)/2.
- 6. Small signal parameters measured after unit subjected to pre-conditioning signal.

General Specifications

Power rating i150WrmsContinuous power rating i300WEIA power rating i250WNominal impedance8Sensitivity i97dBFrequency range60-3,000HzVoice coil diameter50mm/2inChassis typePressed steelMagnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialCloth-sealedSurround materialSingleXmax i2mm/0.08inGap depth8mm/0.31inVoice coil winding width12mm/0.47in	Nominal diameter	254mm/10in
EIA power rating s250WNominal impedance8Sensitivity s97dBFrequency range60-3,000HzVoice coil diameter50mm/2inChassis typePressed steelMagnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Power rating ¹	150Wrms
Nominal impedance8Sensitivity 497dBFrequency range60-3,000HzVoice coil diameter50mm/2inChassis typePressed steelMagnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialSingleXmax 42mm/0.08inGap depth8mm/0.31in	Continuous power rating ²	300W
Sensitivity 497dBFrequency range60-3,000HzVoice coil diameter50mm/2inChassis typePressed steelMagnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax 42mm/0.08inGap depth8mm/0.31in	EIA power rating ³	250W
Frequency range60-3,000HzVoice coil diameter50mm/2inChassis typePressed steelMagnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax °2mm/0.08inGap depth8mm/0.31in	Nominal impedance	8
Voice coil diameter50mm/2inChassis typePressed steelMagnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Sensitivity 4	97dB
Chassis typePressed steelMagnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Frequency range	60-3,000Hz
Magnet typeFerriteMagnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Voice coil diameter	50mm/2in
Magnet weight1.2kg/42ozCoil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Chassis type	Pressed steel
Coil materialRound copperFormer materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Magnet type	Ferrite
Former materialPolyimideCone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Magnet weight	1.2kg/42oz
Cone materialKevlar loaded paperSurround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Coil material	Round copper
Surround materialCloth-sealedSuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Former material	Polyimide
SuspensionSingleXmax s2mm/0.08inGap depth8mm/0.31in	Cone material	Kevlar loaded paper
Xmax s2mm/0.08inGap depth8mm/0.31in	Surround material	Cloth-sealed
Gap depth 8mm/0.31in	Suspension	Single
	Xmax ^s	2mm/0.08in
Voice coil winding width 12mm/0.47in	Gap depth	8mm/0.31in
	Voice coil winding width	12mm/0.47in

Small Signal Parameters

D	0.21m/8.27in
Fs	69.4Hz
Mms	31.1g/1.01oz
Qms	2.454
Qes	0.372
Mmd	27.27g/0.96oz
Qts	0.323
Re	5.45
Vas	28.75lt/1.02ft3
BI	14.1Tm
Cms	0.17mm/N
Rms	5.52kg/s
Le (at 1kHz)	0.6mH

Mounting Information

Overall diameter

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
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Mounting PCD range	245mm/9.65in

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	4.2kg/9.2lb
Multi pack size W x D x H	1080mmx880mmx840mm
	/42.5in x 34.6in x 33.1in
Multi pack weight	390kg/860lb



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