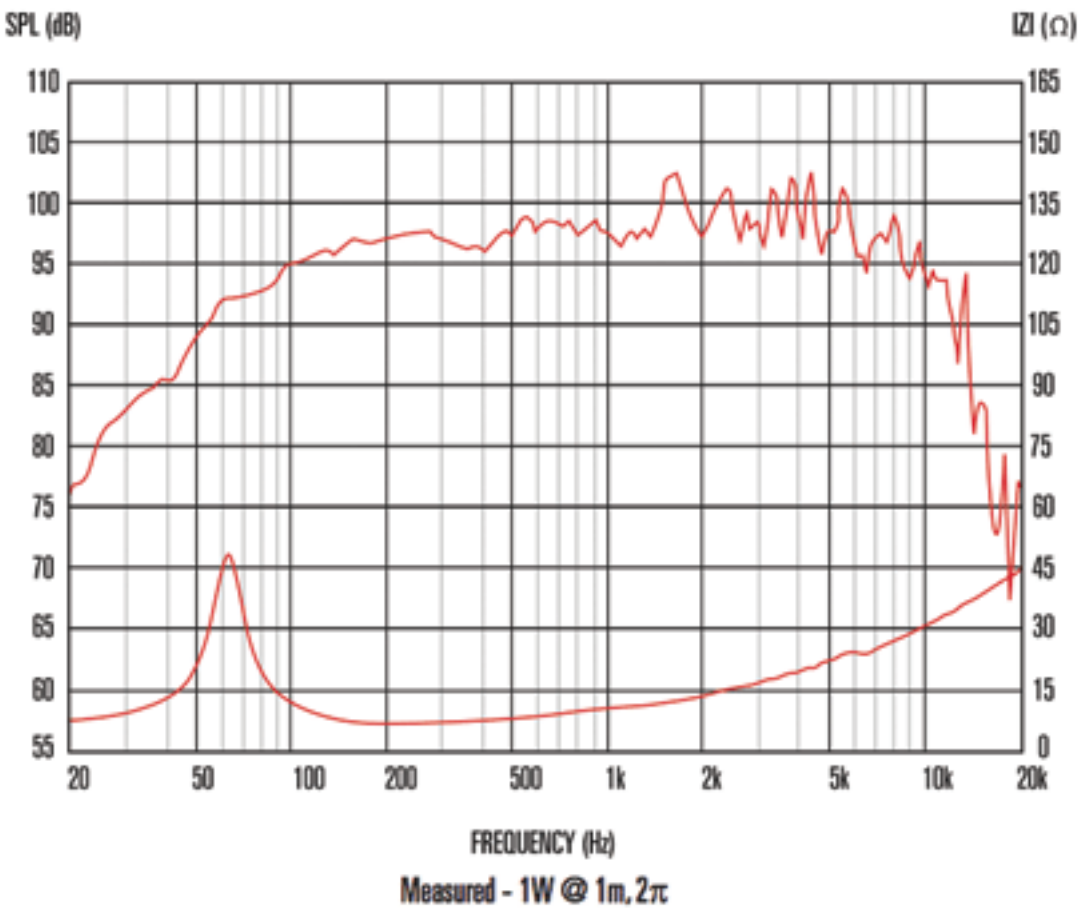
Coaxial/Twin Cone

K12H-100TC

- 12" twin cone drive unit with extended high frequency response
- 1.75" high temperature copper voice coil for increased reliability and 100Wrms (AES standard) power handling
- Optimised cone neck/voice coil assembly for increased strength, minimising high frequency distortion and improving sound quality
- Secondary cone terminated by pressure formed cloth dust cap for enhanced mid-band clarity
- High efficiency magnet structure design delivers improved sensitivity
- Double roll surround for greater excursion control and smooth frequency response

8 Ω Frequency Response



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 2 anechoic environment.
3. Xmax derived from: (voice coil winding width-gap depth)/2.

General Specifications

Nominal diameter	305mm/12in
Power rating [1]	100Wrms
Nominal impedance	8 Ω
Sensitivity [2]	97dB
Frequency range	50-10,000Hz
Voice coil diameter	45mm/1.75in
Chassis type	Pressed steel
Magnet type	Ferrite
Magnet weight	1.41kg/50oz
Coil material	Round copper
Former material	Kapton
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax	1mm/0.04in
Gap depth	8mm/0.31in
Voice coil winding width	10mm/0.39in

Small Signal Parameters

D	0.26m/10.24in
Fs	67.5Hz
Mms	43.669g/1.54oz
Mmd	36.747g/1.30oz
Qms	5.381
Qes	0.581
Qts	0.525
Re	5.43 Ω
Vas	50.7lt/1.79ft3
Bl	13.16Tm
Cms	0.127mm/N
Rms	3.443kg/s
Le (at 1kHz)	0.625mH

Mounting Information

Diameter	309mm/12.17in
Overall depth	129.7mm/5.11in
Cut-out diameter	283mm/11.14in
Mounting slot dimensions	Ø7.9mm/0.31in
Number of mounting slots	4
Mounting PCD range	297mm/11.69in
Unit weight	3.8kg/8.4lb

Packed Dimensions & Weight

Single pack size W x D x H	333mm x 322mm x 145mm /13.1in x 12.7in x 5.7in
Single pack weight	4.5kg/10lb

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