

X18-100

☀ 18 inch ☀ 900 Watts
☀ 96 dB ☀ 37 ~ 1000 Hz



KEY FEATURES:

- ① 900 W continuous program power capacity
- ② 96dB Sensitivity 1w/1m
- ③ 37Hz ~1000Hz frequency response range
- ④ 4" inside/outside copper voice coil
- ⑤ Dual aluminum demodulating rings for lower distortion
- ⑥ Dual silicone spiders with optimized compliance
- ⑦ Ideal for compact bass-reflex enclosure

GENERAL SPECIFICATIONS

Nominal Diameter	460mm / 18inch
Rated Impedance	8 ohm
Nominal Power handling ¹	900 Watts
Program Power ²	1800 Watts
Sensitivity(1w/1m) ³	96 dB
Frequency Range ⁴	37 ~ 1000Hz
Minimum Impedance(Zmin)	6.4 ohm
Voice Coil Diameter	100mm / 4inch
Voice Coil Material	Copper
Former Material	Glass Fiber
Voice Coil Winding Depth	24 mm
Number of layers	2(inside/outside)
Magnet gap depth	15 mm
Basket	Cast Aluminum
Flux Density	1.0 T
Magnet Out Diameter/Wgt	220mm / 125 oz

THIELE - SMALL PARAMETERS⁵

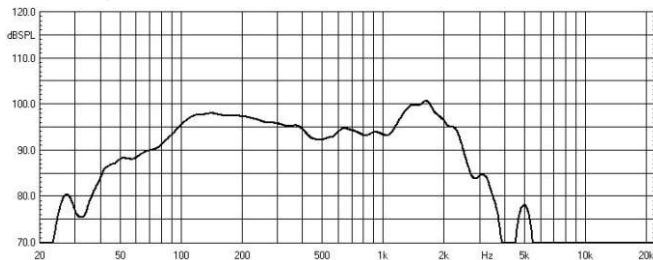
Resonance frequency	Fs	40 Hz
DC resistance	Re	5.1 ohm
Mechanical factor	Qms	9.56
Electrical factor	Qes	0.496
Total factor	Qts	0.47
Mechanical compliance	Cms	0.0723 m/N
of suspension losses	Rms	5.75mech-ohm
Effective Moving Mass	Mms	219 g
Half-space efficiency	Eff	1.9%
BL Factor	BL	24 T.m
Equivalent Cas air load	Vas	151 liters
Effective piston area	Sd	0.1225 m ²
Max. linear excursion ⁶	Xmax	8.5 mm
Voice coil inductance	Le1K	1.75 mH
Efficiency Bandwidth Product	EBP	80

MOUNTING INFORMATION

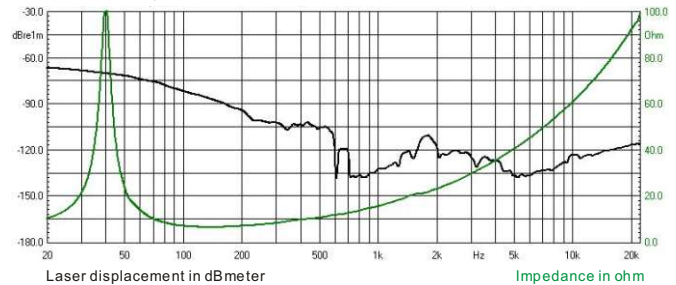
Overall Diameter	466.5 mm
Bolt Circle Diameter	442 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	423 mm
Overall Depth	225 mm
Net Weight	15.2 kg
Shipping Weight	16.5 kg
Shipping Box	500x500x250mm



Frequency response measured in a closed enclosure of 600L in an anechoic chamber



Impedance magnitude curve measured in free air



NOTES:

1. AES standard
2. Program Power is defined as 3 dB greater than the nominal power handling.
3. Sensitivity is measured at 1W input on rated impedance at 1m on axis.
4. Frequency range is defined as the band of frequencies delineated by the lower and upper limits where the output level drops by 10dB below the rated sensitivity.
5. T/S parameters measured with laser system without preconditioning test at 23 Celsius degree environment.
6. The maximum linear excursion is calculated as: $(Hvc-Hg)/2+Hg/4$ where Hvc is the voice coil depth and Hg is the gap depth.