

CX10442

☀️ 10" / 1.75" ☀️ 250w / 50w
 ☀️ 95 / 102 dB ☀️ 50 ~ 19k Hz



KEY FEATURES:

- ① 500W(LF) +100W(HF) continuous program power capacity
- ② 95dB(LF)+102dB(HF) sensitivity 1w/1m
- ③ 65mm(2.5") LF inside/outside copper clad aluminum voice coil
- ④ 44mm(1.75") HF edgewound aluminum voice coil
- ⑤ USA manufactured cone offers increased strength, durability and performance
- ⑥ Ideal for compact bass reflex enclosure

LF GENERAL SPECIFICATIONS

Nominal Diameter	250mm /10inch
Rated Impedance	8 ohm
Nominal Power handling ¹	250 Watts
Program Power ²	500 Watts
Sensitivity(1w/1m) ³	95 dB
Frequency Range ⁴	50 - 3500Hz
Voice Coil Diameter	65mm /2.5inch
Voice Coil Material	CCAW
Voice Coil Winding Depth	16 mm
Number of layers	2(inside/out side)
Magnet Outer Diameter/Wgt	156mm / 50 oz

HF GENERAL SPECIFICATIONS

Throat Diameter	25.4mm /1inch
Rated Impedance	8 ohm
Power handling(2k~18kHz)	
Nominal ¹	50 Watts
Program ²	100 Watts
Sensitivity ³	
(1w/1m, on axis)	102 dB
Frequency Range ⁴	700~19k Hz
Voice Coil Diameter	44mm /1.7inch
Voice Coil Material	Edgewound Aluminum
Diaphragm Material	Polyimide
Magnet Outer Diameter/Wgt	102mm / 20 oz

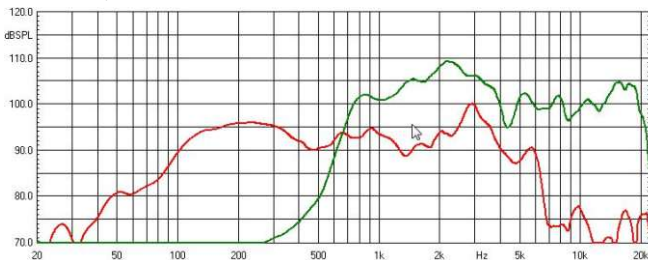
LF THIELE - SMALL PARAMETERS

Resonance frequency	Fs	54Hz
DC resistance	Re	5.6 ohm
Mechanical factor	Qms	5.0
Electrical factor	Qes	0.31
Total factor	Qts	0.29
Mechanical compliance	Cms	0.23 mm/N
Mechanical resistance of suspension losses	Rms	2.54 mech-ohm
Effective Moving Mass	Mms	37.6 g
Half-space efficiency	Eff	1.9%
BL Factor	BL	15.2 T.m
Equivalent Cas air load	Vas	38.4 liters
Effective piston area	Sd	0.0346 m ²
Max. linear excursion ⁵	Xmax	6 mm
Voice coil inductance	Le1K	0.85 mH
Efficiency Bandwidth Product	EBP	174

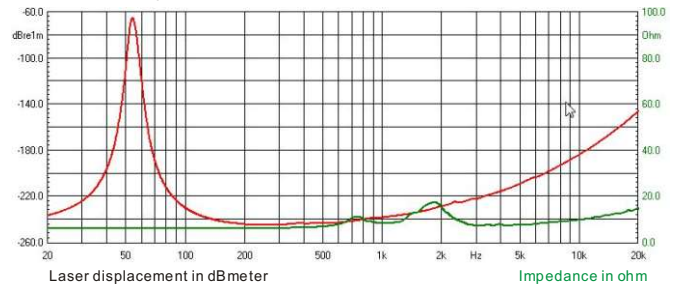
MOUNTING INFORMATION

Overall Diameter	261 mm	Overall Depth	185 mm
Bolt Circle Diameter	246 mm	Net Weight	6.8 kg
Bolt Hole Diameter	5.5 mm	Shipping Weight	7.3 kg
Baffle Cutout Diameter	228 mm	Shipping Box	275x275x200mm

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

