

# HL-2580C 15" LOW FREQUENCY TRANSDUCER



## Features:

- High sensitivity (99 dB 1 W/1 m)
- 100 mm (4") edgewound copper voice coil
- Kevlar reinforced cone

**Diameter:** 380 mm (15 inches)  
**Nominal Impedance:** 8 ohms  
**Frequency Range:** 30 to 1.5 kHz @ -10 dB  
**Highest Recommended Crossover Frequency:**

1.2 kHz

**Power Capacity:** 500 watts, continuous  
**Sensitivity:** 99 dB (@ 2.83v @ 1 m)

**Voice Coil Diameter:** 100 mm (4 inches)  
**Voice Coil Material:** edgewound copper  
**Winding Length:** 19.5 mm (0.768 inches)

**Former Material:** Kapton  
**Magnetic Gap Length:** 10.5 mm (0.4125 in.)

**Magnet Weight:** 2.7 kg (5 lb 15 oz)  
**Magnet Assembly Weight:** 9.7 kg (21 lb 7oz)

**BL Product:** 24.5 Tesla Meters  
**Effective Piston Diameter:** 0.317 m (12.5 in.)

**Total Moving Mass (Mms):** 112 grams  
**Mechanical Compliance (Cms):** 185  $\mu$ M/N

## Small Signal Parameters:

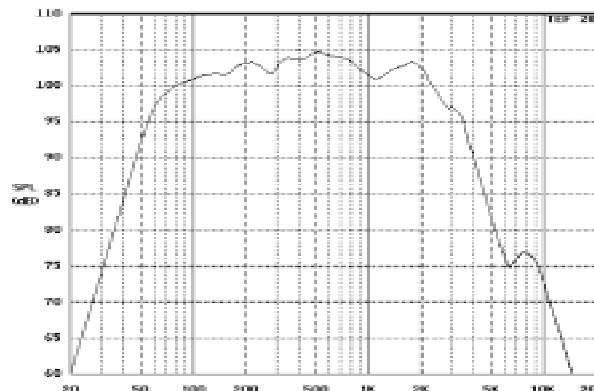
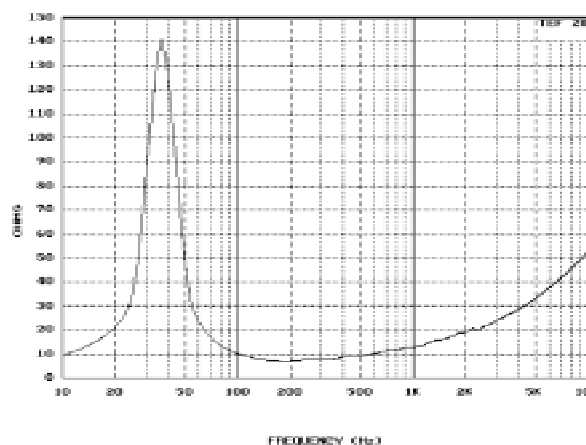
**F<sub>s</sub>** 35 Hz  
**Q<sub>ts</sub>** 0.24  
**Q<sub>ms</sub>** 9.4  
**Q<sub>es</sub>** 0.245  
**V<sub>as</sub>** 164 L, (5.8 feet<sup>3</sup>)  
**R<sub>e</sub>** 5.9 ohms  
 **$\eta_0$**  2.8 %  
**L<sub>e</sub>** 1.7 mH

## Large Signal Parameters:

**S<sub>d</sub>** .079 meters<sup>2</sup> (123 in<sup>2</sup>)  
**x<sub>max</sub>** 6.4 mm (.25 in)  
**V<sub>d</sub>** 500 cm<sup>3</sup> (31 in<sup>3</sup>)

## Mounting Information:

**Diameter:** 389 mm (15 5/16 in.)  
**Bolt Circle:** 365 mm (14 3/8 in.)  
**Baffle Cutout:**  
Front mount 355.6mm, (14 in.)  
Rear mount 352.4 mm, (13 7/8 in.)  
**Overall Depth:** 165 mm (6 1/2 in.)  
**Net Weight:** 11.7 kg (25 lbs. 11 oz.)  
**Shipping Weight:** 13 kg (28 lbs. 11 1/2 oz.)



On-axis response (above) was done Ground Plane with microphone at 3 meters. The test box is 82 ltr (2.9 ft<sup>3</sup>). Box frequency is 41 Hz. Driving voltage is 8 vrms.



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