

ER-1580C 15" EXTENDED RANGE TRANSDUCER



Features:

- Usable response to 5 kHz
- High sensitivity (100 dB 1 W/1 m)
- 76 mm (3") edgewound copper voice coil

Diameter:	380 mm (15 inches)
Nominal Impedance:	8 ohms
Frequency Range:	50 Hz to 5 kHz @ -10 dB
Highest Recommended Crossover Frequency:	3.0 kHz
Power Capacity:	400 watts, continuous
Sensitivity:	100 dB (@ 2.83v @ 1 m)
Voice Coil Diameter:	76 mm (3 inches)
Voice Coil Material:	edgewound copper
Winding Length:	13 mm (0.51 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:	8.4 kg (18 lb 7oz)
BL Product:	21.8 Tesla Meters
Effective Piston Diameter:	0.317 m (12 1/2 in.)
Total Moving Mass (Mms):	68 grams
Mechanical Compliance (Cms):	440 μM/N

Small Signal Parameters:

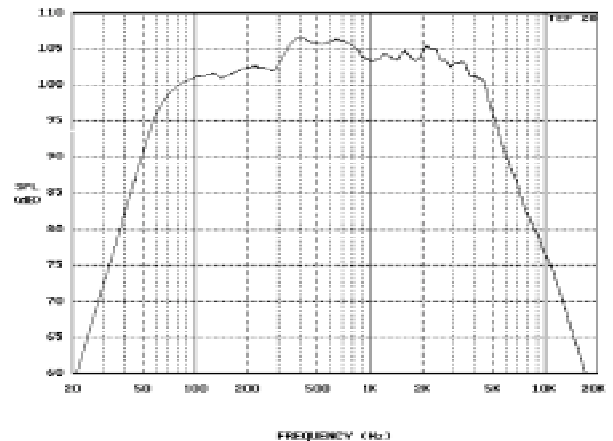
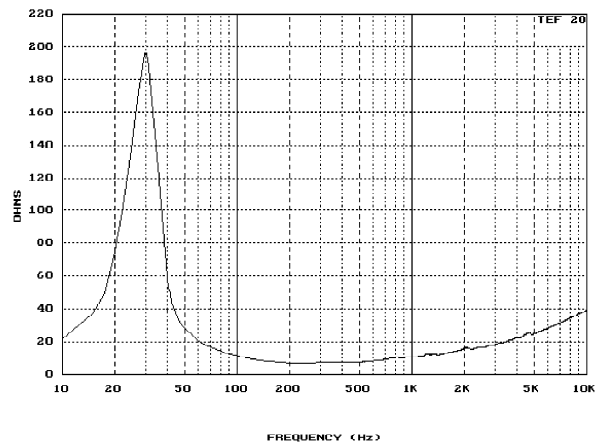
F_s	30 Hz
Q_{ts}	0.15
Q_{ms}	6.65
Q_{es}	0.152
V_{as}	390 L, (13.8 feet ³)
R_e	5.8 ohms
η_o	6.0 %
L_e	0.9 mH

Large Signal Parameters:

S_d	.079 meters ² , (123 in ²)
x_{max}	2.3 mm (.09 in)
V_d	182cm ³ , (11.0 in ³)

Mounting Information:

Diameter:	389 mm (15 5/16 in.)
Bolt Circle:	365 mm (14 3/8 in.)
Baffle Cutout:	
Front mount	355 mm, (14 in.)
Rear mount	352.4 mm, (13 7/8 in.)
Overall Depth:	157 mm (6 3/16 in.)
Net Weight:	10.6 kg (23 lbs. 5.5 oz.)
Shipping Weight:	11.6 kg (25 lbs. 9 1/2 oz.)



On-axis response (above) was done Ground Plane with microphone at 3 meters. The test box is 82 ltr (2.9 ft³). Box frequency is 41 Hz. Driving voltage is 8 vrms.



2270 Cosmos Court, Carlsbad, CA USA 92009
 Professional Voice (760) 431-9924 Fax (760) 431-9496
 Audio Systems www.pas-toc.com e-mail info@pas-toc.com

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