



**TREO**  
ENGINEERING

# TE

## The New Standard

Fresh cosmetics and TREO Engineering's legendary reliability and sound quality lead us to the TE line of sub-bass drivers. All the features that make the competition cry are pumped in to this sub that can be had by the seasoned competitor and the street enthusiast alike. Available in ten inch thru 15 inch sizes, the TE line of subwoofers will please the senses of even the most discerning audiophile with accuracy never before possible at this price.



- Precision CNC machined, low carbon steel 220oz. motor structure
- Large diameter pole vent
- High-excursion motor structure and suspension design
- Tall extended displacement composite foam surround
- Resin impregnated poly-cotton damper for superior cone control
- Mica-impregnated polypropylene hybrid cone
- Integrated tinsel leads for increased reliability and sound quality at high excursion
- 2.5" high-temp aluminum voice coils
- 500 watts RMS power handling
- Available in dual 2 ohm and 4 ohm voice coils for unlimited installation flexibility
- Optimized for small sealed, vented and bandpass enclosures
- 3 year dealer installed warranty

**TREO**  
ENGINEERING



The New Standard

# TECHNICAL INFORMATION

	TE10.22	TE10.44	TE12.22	TE12.44	TE15.22	TE15.44
Woofer Size	10 in 250 mm	10 in 250 mm	12 in 300 mm	12 in 300 mm	15 in 380 mm	15 in 380 mm
Nominal Impedance	Dual 2 Ω	Dual 4 Ω	Dual 2 Ω	Dual 4 Ω	Dual 2 Ω	Dual 4 Ω
Outside Diameter	10-3/8 in 264 mm	10-3/8 in 264 mm	12-1/2 in 318 mm	12-1/2 in 318 mm	15-1/2 in 394 mm	15-1/2 in 394 mm
Cutout Size	9 in 229 mm	9 in 229 mm	11 in 280 mm	11 in 280 mm	14 in 356 mm	14 in 356 mm
Mounting Depth	6 in 153 mm	6 in 153 mm	6-3/4 in 172 mm	6-3/4 in 172 mm	7-3/4 in 197 mm	7-3/4 in 197 mm
Voice Coil Diameter	2.5 in 64 mm	2.5 in 64 mm	2.5 in 64 mm	2.5 in 64 mm	2.5 in 64 mm	2.5 in 64 mm
Motor Weight	208 oz 5.90 kg	208 oz 5.90 kg	208 oz 5.90 kg	208 oz 5.90 kg	208 oz 5.90 kg	208 oz 5.90 kg
Total Weight	284 oz 8.05 kg	284 oz 8.05 kg	316 oz 8.96 kg	316 oz 8.96 kg	326 oz 9.24 kg	326 oz 9.24 kg
Driver Displacement	0.075 ft <sup>3</sup> 2.12 L	0.075 ft <sup>3</sup> 2.12 L	0.080 ft <sup>3</sup> 2.27 L	0.080 ft <sup>3</sup> 2.27 L	0.100 ft <sup>3</sup> 2.83 L	0.100 ft <sup>3</sup> 2.83 L
Revc	4.5 Ohm	8.5 Ohm	4.5 Ohm	8.5 Ohm	4.5 Ohm	8.5 Ohm
Power Handling (RMS)	500 W	500 W	500 W	500 W	500 W	500 W
SPL <sub>Lo</sub>	83.152 dB	84.073 dB	84.770 dB	84.389 dB	87.034 dB	86.666 Db
No	0.13%	0.16%	0.19%	0.17%	0.32%	0.29%
Sd	55.1 in <sup>2</sup> 355.408 cm <sup>2</sup>	55.1 in <sup>2</sup> 355.408 cm <sup>2</sup>	78.5 in <sup>2</sup> 506.707 cm <sup>2</sup>	78.5 in <sup>2</sup> 506.707 cm <sup>2</sup>	130.2 in <sup>2</sup> 839.947 cm <sup>2</sup>	130.2 in <sup>2</sup> 839.947 cm <sup>2</sup>
Fs	23.579 Hz	25.575 Hz	24.241 Hz	24.100 Hz	23.707 Hz	24.179 Hz
Vas	1.415 ft <sup>3</sup> 40.085 L	1.568 ft <sup>3</sup> 44.410 L	2.532 ft <sup>3</sup> 71.707 L	2.499 ft <sup>3</sup> 70.781 L	5.784 ft <sup>3</sup> 163.777 L	6.031 ft <sup>3</sup> 170.771 L
Qms	3.446	3.358	3.828	3.419	5.028	4.702
Qes	0.391	0.448	0.524	0.555	0.665	0.801
Qts	0.351	0.395	0.461	0.477	0.587	0.684
Cms	223.479 uM/N	247.591 uM/N	196.680 uM/N	194.141 uM/N	163.479 uM/N	170.460 uM/N
Mmd	200.025 g	152.555 g	212.607 g	218.090 g	261.704 g	240.173 g
Mms	203.878 g	156.408 g	219.165 g	224.649 g	275.701 g	254.170 g
BL	18.636 T-M	21.846 T-M	16.928 T-M	22.825 T-M	16.672 T-M	20.248 T-M
Levc	2.040 mH	3.187 mH	2.285 mH	3.331 mH	2.274 mH	3.191 mH
X-Max	1.10 in 28 mm	1.10 in 28 mm	1.10 in 28 mm	1.10 in 28 mm	1.14 in 28 mm	1.14 in 28 mm

\* Efficiency is not an accurate indicator of a subwoofer's output capability and should not be used to compare subwoofers.

## RECOMMENDED ENCLOSURES

	SEALED	PORTED
TE 10.22 & TE 10.44	0.80 cu ft F3=44 Hz	1.25 cu ft net, 12 sq in vent, 18-1/8 in long, F3=30.4 Hz
TE 12.22 & TE 12.44	1.1 cu ft F3=42.1 Hz	1.6 cu ft net, 16 sq in vent, 18.5 in long, F3=31 Hz
TE 15.22 & TE 15.44	1.7 cu ft F3=41.2 Hz	2.5 cu ft net, 20 sq in vent, 12.75 in long, F3=30.6 Hz

