

# Eclipse Woofers by Eminence

Eclipse 10" Polypropylene cone woofer with rubber surround and vented pole piece.

W1038R 10" Poly Cone Woofer	
Fs	18.36
Impedance	6 ohm
Mmd	58.4 Grams
Cms	1207.4 m/n
Vas	214.9 Liters
Rsc	4.7 Ω
Leap Krm	3.439
Leap Kxm	25.412
Leap Erm	0.813
Leap Exm	0.670
vcL	1.4mH @ 1K
Bl	9.95 Tm
Qms	4.694
Qes	0.341
Qts	0.318
Xmax	8.0 mm Peak
SD	0.0354 m <sup>2</sup>
Surround	Rubber
Magnet	40 oz.
Voice Coil	2 Inch
Power Handling	100 watts
Freq. Response	28—1500 Hz
Efficiency	88 dB @2.83V
<b>Price</b>	<b>\$57.00</b>



Frame Size:  
10 1/8" diameter  
9 1/8" cutout diameter  
4 7/16" depth

Sealed Box Alignment  
2 cubic feet  
F3 of 40Hz  
Qtc of .7

Vented Box Alignments  
QB3 alignment  
2.9 cubic feet  
F3 of 28Hz  
3" diameter x 9" long

Eclipse 12" Polypropylene cone woofer with rubber surround and vented pole piece.

W1238R 12" Poly Cone Woofer	
Fs	21.48
Impedance	6 ohm
Mmd	86.5 Grams
Cms	586.39 m/n
Vas	236.55 Liters
Rsc	4.9 Ω
Leap Krm	3.368
Leap Kxm	28.125
Leap Erm	0.868
Leap Exm	0.738
vcL	2.84mH @ 1K
Bl	15.38 Tm
Qms	6.599
Qes	0.262
Qts	0.252
Xmax	8.0 mm Peak
SD	0.0533 m <sup>2</sup>
Surround	Rubber
Magnet	40 oz.
Voice Coil	2 Inch
Power Handling	150 watts
Freq. Response	25—1000 Hz
Efficiency	92 dB @2.83V
<b>Price</b>	<b>\$61.00</b>



Frame Size:  
12" diameter  
11" cutout diameter  
5 3/8" depth

Vented Box Alignment  
2.0 cubic feet  
F3 of 35Hz  
3" diameter x 6" long  
w/KG5150 F3 30Hz

## Eminence EMI-1550 15" High Efficiency Woofer

EMI-1550 15" Paper Cone Woofer	
Fs	22.54
Impedance	8 ohm
Mms	84.2 Grams
Cms	510.0 m/n
Vas	501.3 Liters
Rsc	6.73 Ω
Leap Krm	5.637
Leap Kxm	15.165
Leap Erm	0.750
Leap Exm	0.700
vcL	4.13mH
Bl	19.38 Tm
Qms	10.00
Qes	0.23
Qts	0.23
Xmax	7.15 mm Peak
SD	832 cm <sup>2</sup>
Surround	Cloth Accordion
Magnet	67 oz.
Voice Coil	2 Inch, 4 layer, Cu
Power Handling	150 watts
Freq. Response	23—1700 Hz
Efficiency	2.96%
SPL	96.3 dB @2.83V
Flange diameter	389mm (15.3")
Mounting hole	356mm (14")
Depth	146mm (5.75")
Flange thickness	20mm (0.79")
<b>Price</b>	<b>\$109.50</b>

We had this woofer made by Eminence in order to offer an efficient subwoofer for use with high efficiency full range speakers and efficient speaker systems. We worked with Eminence to develop a 15" woofer where efficiency and bass response were equally important, not just power handling. We are very happy with the results.

When using the EMI-1550 with one of our plate amplifiers, we recommend a 3.5 cubic foot box with the 4" flared port 6" long (5" if not using a flared port). For the flared ports that we have, you would connect the front flare to the rear flare and not use the center tube. This box will give you an F3 of 36Hz. Power handling of 150 watts without exceeding the x-max, maximum output of 114.5dB. Using this box with an amplifier that doesn't have a bass boost will result in an F3 of 45Hz.

Another box option for an amplifier without a bass boost would be the Extended Bass Shelf, 4.5 cubic feet with a 4" diameter vent by 5" long (6" if flared port). The F3 is about 40Hz, roll off starts at about 100Hz.

