

# 8HX240



**LF 8" - 250 W - 94 dB - 8 Ohm**  
**HF 30 W - 107 dB - 8 Ohm**

## NOMINAL SPECIFICATIONS

Nom. Diameter	200 mm (8 in)
Overall Diameter	223.75/207.9 mm (8.81/8.18 in)
Bolt Circle Diameter	210 mm (8.27 in)
Baffle Cutout Diameter	181 mm (7.13 in)
Depth	125.5 mm (4.94 in)
Flange and Gasket Thickness	10.7 mm (0.42 in)
<b>Net Weight</b>	<b>3.9 kg (8.6 lb)</b>
Shipping Box (Single Carton Box)	235 x 235 x 155 mm (9.3 x 9.3 x 6.1 in)
Shipping Weight	4.2 kg (9.3 lb)

## PART NUMBER

Push Terminals - 8 Ohm Version	02004356
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## NOTES:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3) HF Sensitivity averaged within the frequency range
- (4) 12 dB/oct or higher slope high-pass filter
- (5) Treated Polycotton
- (6)  $X_{max} = [(winding\ depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth/3)$
- (7) Maximum excursion before permanent damage

## TECHNICAL PARAMETERS

	LF	HF
Nom. Impedance	8 Ohm	8 Ohm
Minimum Impedance	6.4 Ohm	6.8 Ohm
AES Power Handling (1)	250 W	30 W
<b>Max Power Handling (2)</b>	<b>500 W</b>	<b>60 W</b>
<b>Sensitivity (1W/1m) (3)</b>	<b>94 dB</b>	<b>107 dB</b>
Frequency Range	70-4000 Hz	1200-20000 Hz
<b>Voice Coil Diameter</b>	<b>65 mm (2.56 in)</b>	<b>37 mm (1.46 in)</b>
<b>Winding Material</b>	<b>Al</b>	<b>Al</b>
Former Material	Glass Fiber	Kapton
Winding Depth	15 mm (0.59 in)	2.1 mm (0.08 in)
<b>Magnetic Gap Depth</b>	<b>8 mm (0.31 in)</b>	<b>2.6 mm (0.10 in)</b>
Flux Density	1.15 T	1.85 T
Min. Cross. Freq. (4)	-	1.7 kHz
Dispersion Angle	-	100°
<b>Diaphragm Material</b>	-	<b>Ketone Polymer</b>
<b>Diaphragm Shape</b>	-	<b>Annular</b>
Magnet	Neodymium Ring	Neodymium Ring
Basket Material	Aluminum	-
Demodulation	Aluminum Ring	-
Cone Surround (5)	Triple Roll	-
NET Air Volume filled by Loudspeaker	0.95 dm <sup>3</sup> (0.034 ft <sup>3</sup> )	-
Spider Profile	1x variable height waves	-

## THIELE & SMALL PARAMETERS

Fs	70 Hz
Re [LF]	5 Ohm
Re [HF]	5.5 Ohm
Qes	0.31
Qms	8.1
Qts	0.30
Vas	12.9 dm <sup>3</sup> (0.46 ft <sup>3</sup> )
Sd	223 cm <sup>2</sup> (34.57 in <sup>2</sup> )
Xmax (6)	6.17 mm
Xdamage (7)	15.2 mm
Mms	27.7 g
Bl	13.8 N/A
Le	0.49 mH
Mmd	24.0 g
Cms	0.19 mm/N
Rms	1.5 kg/s
Eta Zero	1.34 %
EBP	226 Hz

