

12HX230

LF 12" - 250 W - 97 dB - 8 Ohm

HF 30 W - 107 dB - 8 Ohm



NOMINAL SPECIFICATIONS

| | |
|-------------------------------------|--|
| Nom. Diameter | 300 mm (12 in) |
| Overall Diameter | 316 mm (12.44 in) |
| Bolt Circle Diameter | 298.5 mm (11.75 in) |
| Baffle Cutout Diameter | 282 mm (11.10 in) |
| Depth | 162 mm (6.38 in) |
| Flange and Gasket Thickness | 12 mm (0.47 in) |
| Net Weight | 5.2 kg (11.5 lb) |
| Shipping Box (Single Carton Box) | 350 x 346 x 190 mm (13.8 x 13.6 x 7.5 in) |
| Shipping Weight | 5.7 kg (12.6 lb) |

PART NUMBER

| | |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 03004278 |
|--------------------------------|----------|

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 | 7 Ohm |
| AES Power Handling (1) | 250 W | 30 W |
| Max Power Handling (2) | 500 W | 60 W |
| Sensitivity (1W/1m) (3) | 97 dB | 107 dB |
| Frequency Range | 55-5000 Hz | 1500-20000 Hz |
| Voice Coil Diameter | 65 mm (2.56 in) | 37 mm (1.46 in) |
| Winding Material | Al | Al |
| Former Material | Glass Fiber | Kapton |
| Winding Depth | 17.4 mm (0.69 in) | 2.1 mm (0.08 in) |
| Magnetic Gap Depth | 8 mm (0.31 in) | 2.6 mm (0.10 in) |
| Flux Density | 1.15 T | 1.85 T |
| Min. Cross. Freq. (4) | - | 1.7 kHz |
| Dispersion Angle | - | 100° |
| Diaphragm Material | - | Ketone Polymer |
| Diaphragm Shape | - | Annular |
| Magnet | Ferrite Ring | Neodymium Ring |
| Basket Material | Aluminum | - |
| Demodulation | Aluminum Ring | - |
| Cone Surround (5) | Triple Roll | - |
| NET Air Volume filled by Loudspeaker | 2.15 dm³ (0.076 ft³) | - |
| Spider Profile | 1x variable height waves | - |

THIELE & SMALL PARAMETERS

| | |
|-------------|---------------------|
| Fs | 55 Hz |
| Re [LF] | 5.3 Ohm |
| Re [HF] | 5.5 Ohm |
| Qes | 0.46 |
| Qms | 7.4 |
| Qts | 0.43 |
| Vas | 67.7 dm³ (2.39 ft³) |
| Sd | 539 cm² (83.55 in²) |
| Xmax (6) | 7.37 mm |
| Xdamage (7) | 15.25 mm |
| Mms | 50.2 g |
| Bl | 14.1 N/A |
| Le | 0.62 mH |
| Mmd | 36.1 g |
| Cms | 0.17 mm/N |
| Rms | 2.3 kg/s |
| Eta Zero | 2.36 % |
| EBP | 120 Hz |

