



12HP1030

12" - 1000 W - 95 dB

NOMINAL SPECIFICATIONS

| | |
|-----------------------------|--------------------------|
| Nominal 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 | 147 mm (5.79 in) |
| Flange and gasket Thickness | 12 mm (0.47 in) |
| Net Weight | 11.1 kg (24.5 lb) |
| Shipping Box | 350 x 346 x 190 mm |
| (Single Carton Box) | (13.8 x 13.6 x 7.5 in) |
| Shipping Weight | 11.8 kg (26.0 lb) |

TECHNICAL PARAMETERS

| | |
|--------------------------------------|---|
| Nominal Impedance | 8 Ω |
| Minimum Impedance | 6.7 Ω |
| AES Power Handling (1) | 1000 W |
| Maximum Power Handling (4) | 2000 W |
| Sensitivity (1W/1m) | 95 dB |
| Frequency Range | 45 ÷ 1600 Hz |
| Voice Coil Diameter | 100 mm (4 in) |
| Winding Material | Cu |
| Former Material | Glass Fiber |
| Winding Depth | 28.9 mm (1.14 in) |
| Magnetic Gap Depth | 12 mm (0.47 in) |
| Flux Density | 1.1 T |
| Magnet | Ferrite Ring |
| Basket Material | Aluminum |
| Demodulation | Aluminum Ring |
| Cone Surround (5) | Triple Roll |
| NET Air Volume filled by Loudspeaker | 3.7 dm ³ (0.131 ft ³) |
| Spider Profile | 2x non-adjacent symmetrical variable height waves |

THIELE & SMALL PARAMETERS

| | |
|---------------------------|--|
| Fs | 45 Hz |
| Re | 5 Ω |
| Qes | 0.31 |
| Qms | 13.8 |
| Qts | 0.30 |
| Vas | 29.9 dm ³ (1.06 ft ³) |
| Sd | 469 cm ² (72.70 in ²) |
| Xmax (2) | 12.45 mm |
| Xdamage (3) | 20.5 mm |
| Mms | 130.5 g |
| Bl | 24.3 N/A |
| Le | 1.35 mH |
| Mmd | 124.7 g |
| Cms | 0.09 mm/N |
| Rms | 2.7 kg/s |
| η _o (Eta Zero) | 0.85 % |
| EBP | 145 Hz |

NOTE:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) $X_{max} = [(Winding\ Depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth / 3)$
- (3) Maximum excursion before permanent damage
- (4) Maximum power is defined as 3dB greater than nominal power
- (5) Treated Polycotton

