



18HP1010

18" - 1000 W - 98 dB

NOMINAL SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	440 mm (17.32 in)
Baffle Cutout Diameter	421 mm (16.57 in)
Depth	203.5 mm (8.01 in)
Flange and gasket Thickness	13.7 mm (0.54 in)
Net Weight	10.1 kg (22.3 lb)
Shipping Box	503 x 500 x 258 mm
(Single Carton Box)	(19.8 x 19.7 x 10.2 in)
Shipping Weight	11.5 kg (25.4 lb)

TECHNICAL PARAMETERS

Nominal Impedance	4 Ω
Minimum Impedance	3.5 Ω
AES Power Handling (1)	1000 W
Maximum Power Handling (4)	2000 W
Sensitivity (1W/1m)	98 dB
Frequency Range	35÷2000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Cu
Former Material	Glass Fiber
Winding Depth	23 mm (0.91 in)
Magnetic Gap Depth	10.5 mm (0.41 in)
Flux Density	1.05 T
Magnet	Ferrite Ring
Basket Material	Aluminum
Demodulation	No
Cone Surround (5)	Triple Roll
NET Air Volume filled by Loudspeaker	7.1 dm ³ (0.251 ft ³)
Spider Profile	2x non-adjacent symmetrical constant height waves

THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	2.7 Ω
Qes	0.32
Qms	7.8
Qts	0.31
Vas	202.8 dm ³ (7.16 ft ³)
Sd	1134 cm ² (175.77 in ²)
Xmax (2)	9.75 mm
Xdamage (3)	21.9 mm
Mms	186.2 g
Bl	18.4 N/A
Le	1.26 mH
Mmd	163.5 g
Cms	0.11 mm/N
Rms	5.24 kg/s
η _o (Eta Zero)	2.59 %
EBP	109 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

