



18HP1020

18" - 1000 W - 99 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	424 mm (16.7 in)
Depth	202 mm (7.95 in)
Flange and gasket Thickness	13.9 mm (0.55 in)
Net Weight	6.45 kg (14.22 lb)
Shipping Box	503 x 500 x 258 mm
(Single Carton Box)	(19.8 x 19.7 x 10.16 in)
Shipping Weight	7.8 kg (17.2 lb)

TECHNICAL PARAMETERS

Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
AES Power Handling (1)	1000 W
Maximum Power Handling (4)	2000 W
Sensitivity (1W/1m)	99 dB
Frequency Range	35÷1600 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Cu
Former Material	Glass Fiber
Winding Depth	23 mm (0.9 in)
Magnetic Gap Depth	12 mm (0.47 in)
Flux Density	1.3 T
Magnet	Neodymium Slug
Basket Material	Aluminum
Demodulation	No
Cone Surround (5)	Triple Roll
NET Air Volume filled by Loudspeaker	6.2 dm ³ (0.219 ft ³)
Spider Profile	2x non-adjacent symmetrical constant height waves

THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	5.4 Ω
Qes	0.28
Qms	9.74
Qts	0.27
Vas	207.2 dm ³ (7.32 ft ³)
Sd	1134 cm ² (175.8 in ²)
Xmax (2)	9.5 mm
Xdamage (3)	17.5 mm
Mms	182 g
Bl	28 N/A
Le	1.7 mH
Mmd	159.5 g
Cms	0.11 mm/N
Rms	4.1 kg/s
η _o (Eta Zero)	3.1 %
EBP	125 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
- PATENT IT2006/000327

