



# 12PR310

12" - 300 W - 98 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	135 mm (5.31 in)
Flange and gasket Thickness	12 mm (0.47 in)
<b>Net Weight</b>	<b>4.3 kg (9.5 lb)</b>
Shipping Box	350 x 346 x 190 mm
(Single Carton Box)	(13.8 x 13.6 x 7.5 in)
Shipping Weight	5 kg (11.0 lb)

## TECHNICAL PARAMETERS

Nominal Impedance	16 Ω
Minimum Impedance	13.6 Ω
AES Power Handling (1)	300 W
<b>Maximum Power Handling (4)</b>	<b>600 W</b>
<b>Sensitivity (1W/1m)</b>	<b>98 dB</b>
Frequency Range	50 ÷ 4000 Hz
<b>Voice Coil Diameter</b>	<b>65 mm (2.56 in)</b>
Winding Material	Al
Former Material	Glass Fiber
Winding Depth	12.5 mm (0.49 in)
<b>Magnetic Gap Depth</b>	<b>8 mm (0.31 in)</b>
Flux Density	1.2 T
<b>Magnet</b>	<b>Ferrite Ring</b>
Basket Material	Aluminum
Demodulation	No
Cone Surround (5)	M-Roll
NET Air Volume filled by Loudspeaker	1.9 dm <sup>3</sup> (0.067 ft <sup>3</sup> )
Spider Profile	1x variable height waves

## THIELE & SMALL PARAMETERS

Fs	55 Hz
Re	12.1 Ω
Qes	0.7
Qms	12.2
Qts	0.67
Vas	55.7 dm <sup>3</sup> (1.97 ft <sup>3</sup> )
Sd	489 cm <sup>2</sup> (75.80 in <sup>2</sup> )
Xmax (2)	4.92 mm
Xdamage (3)	15.2 mm
Mms	51 g
Bl	17.3 N/A
Le	0.98 mH
Mmd	44.9 g
Cms	0.16 mm/N
Rms	1.44 kg/s
η <sub>o</sub> (Eta Zero)	1.27 %
EBP	77 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

