

# GPA-18100 ND

Written by Administrator

Monday, 06 April 2009 07:34 - Last Updated Monday, 15 June 2009 03:39

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{rokbox}images/stories/product/GPA-18100ND\_2.jpg{/rokbox}

{rokbox}images/stories/product/GPA-18100ND\_4.jpg{/rokbox}

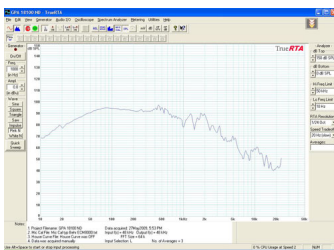
## SPECIFICATIONS

al diameter : 460mm.18in  
Nominal Impedance : 8 ohm  
Program Power : 1200w  
Continuous Power (RMS) : 800w  
Sensitivity (1w/1m) : 96db.  
Frequency range : 30Hz. – 1.8KHz  
Voice coil diameter : Dia.99.5mm.  
Voice coil length : 23mm  
Magnet dimension : Dia.96mm x 30mm  
Neodymium magnet

Nomin

## MATERIALS

Basket : Dia.cast aluminium  
Cone and dust can : Paper  
Surround : Thread coat  
Voice coil wire : Copper crad Aluminium  
Voice coil bobbin : GSV.



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--- BassBox Pro Version 3.03, Export Thiele-Small Format

--- May 27,2009, Wed 5:38PM

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--- Parameters marked with \*\* are not tested using the WT2

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--- mechanical ---

Fs	41.238E+00 Hz	Free air resonance
Qms	23.218E+00	Q mechanical
Vas	123.882E-03 m <sup>3</sup>	Suspension compliance
Cms	58.844E-06 m/N	1/(suspension stiffness)
Mms	253.133E-03 kg	Moving mass
Rms	2.825E+00 kg/s	Mechanical resistance
Xmax **	0.000E+00 m	Maximum acoustic linear motion
Xmech**	0.000E+00 m	Mechanical displacement
Dia	393.700E-03 m	Piston diameter
Sd	121.736E-03 m <sup>2</sup>	Piston area
Vd **	0.000E+00 m <sup>3</sup>	Displacement volume

--- electrical ---

Qes	535.982E-03	Q electrical
Re	5.354E+00 ohms	Voice coil DC resistance
Le	3.534E-03 Henries	Inductance @1 kHz
Z	28.252E+00 ohms	Impedance @1 kHz
BL	25.596E+00 Tm	Motor force - Newtons/Amp
Pe **	0.000E+00 W	Max Electrical Power

--- electro-mechanical ---

Qts	523.888E-03	Q total
no	1.523E+00 %	1/2-space ref efficiency @ 1m/1W
1-W SPL	93.845E+00 dB	sensitivity at 1m on-axis
2.83V SPL	95.589E+00 dB	sensitivity at 1m on-axis

--- motor constants ---

Krm	3.243E-03 ohms	constant resistive motor impedance
Erm	906.490E-03	exponent resistive motor impedance
Kxm	75.214E-03 Henries	constant reactive motor impedance
Exm	636.209E-03	exponent reactive motor impedance

--- End BassBox Pro Export ---