

# **1240TWX**

Speaker type B171-8 + HF UNIT\*
Reference **1240TWX** 



## TYPICAL CHARACTERISTICS

Z	Ω	16	6
-	dB SPL	93	95
	Hz	50-4000	3k - 20k
α	0	1	#100
-	W	100	60 <sup>(1)</sup>
SPLmax	dB SPL	109	109
Zmin	Ω@Hz	13.5@360	4.3@4500
Le <sub>1k</sub>	mΗ	1.33	-
Le <sub>10k</sub>	mΗ	0.46	0.1
Le <sub>20k</sub>	μН		100
BL	N/A	11.9	H=
Mms	kg	0.011	-
	$\begin{matrix} -\\ \alpha\\ -\\ \infty\\ -\\ SPLmax\\ \textbf{Zmin}\\ Le_{1k}\\ Le_{10k}\\ Le_{20k}\\ BL\\ \end{matrix}$	$\begin{array}{cccc} - & dB \ SPL \\ - & Hz \\ \alpha & \circ \\ - & W \\ SPLmax & dB \ SPL \\ Zmin & \Omega@Hz \\ Le_{1k} & mH \\ Le_{10k} & mH \\ Le_{20k} & \muH \\ BL & N/A \\ \end{array}$	- dB SPL 93 - Hz 50-4000 α ° W 100 SPLmax dB SPL 109 Zmin Ω@Hz 13.5@360 Le <sub>1k</sub> mH 1.33 Le <sub>10k</sub> mH 0.46 Le <sub>20k</sub> μH BL N/A 11.9

(1) Ferrofluid cooled HF UNIT . Stated with a 2nd order passive high-pass filter set @ 3 kHz

### THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

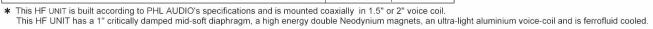
Fs	Hz	42(±6)	1650(±250)
Re	Ω	12.1(±1.2)	3.9(±0.5)
Qms	1	2.6	-
Qes	1	0.25	-
Qts	1	0.23	s.=
Cms	10 <sup>-6</sup> .m/N	1300	÷
Sd	$m^2$	0.0133	=
Vas	$m^3$	0.032	-
Xmax	±mm	3.5	0,2
Vd	10 <sup>-3</sup> .m <sup>3</sup>	0.047	#
ηο	%	0.9	8=
Vas.Qts <sup>2</sup>	10 <sup>-3</sup> .m <sup>3</sup>	1.7	-
	Re Qms Qes Qts Cms Sd Vas Xmax Vd η₀	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Re         Ω         12.1(±1.2)           Qms         1         2.6           Qes         1         0.25           Qts         1         0.23           Cms         10-6.m/N         1300           Sd         m²         0.0133           Vas         m³         0.032           Xmax         ±mm         3.5           Vd         10-3.m³         0.047           η₀         %         0.9

#### ABSOLUTE MAXIMUM RATINGS

[21] [21] [22] [23] [24] [25] [25] [25] [25] [25] [25] [25] [25				
Short term max. input voltage	Vmax	V	85	40
Max.excursion before damage	Xdam	±mm	8	n.a.
Lowest recommended X-over frequency	-	Hz		
Ambient operating temperature	Та	°C	-10 to +50	-10 to +50
Storage temperature	-	°C	-20 to +70	-20 to +70
Environemental withstanding **	27	( <del>=</del>	Outdoor +	Outdoor

## APPLICATION INFORMATION

Air volume occupied by the driver	-	10 <sup>-3</sup> .m <sup>3</sup>	0.5	-
Speaker net mass		kg	2.15	0.053
Recommended 2nd order passive X-over	C/L	μF/mH	-	4.7 / 0.33
Recommended reflex box	Vb/Fb	Lts/Hz	12 L / 55Hz	n.a.





These specifications are representative of current production after packaging. Because of our continous research they are subject to change without notice.



