TW110T1

TWEETER

100919T

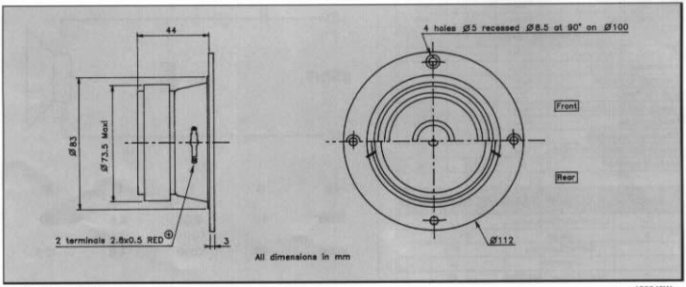
3" - PAPER CONE - 75 mm

Paper cone - Textile suspension
Solid aluminium phase plug
Kapton voice coil former
Ferrofluid cooled voice coil
Very high efficiency - 93 dB/W/m

Cône papier - suspension toile
Ogive aluminium massif
Support bobine Kapton
Bobine refroidie par ferrofluide
Très haut rendement - 93 dB/W/m

This High end cone tweeter uses a strong magnet structure for high efficiency. The ferrofluid cooled Kapton former voice coil ensures good power handling capacity. The phase plug equalizes the high frequencies. Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

Ce tweeter haut de gamme à cône offre un haut rendement grâce à son système magnétique puissant. Par ailleurs sa bobine sur support Kapton refroidie par ferrofluide lui confère une bonne tenue en puissance. L'ogive dont il est équipé régularise et adoucit la reproduction dans le haut du spectre. Il peut être filtré au second ordre (12 dB/Oct) selon le shéma Fig 1. Deux fréquences de coupure sont proposées afin d'obtenir la tenue en puissance adéquate.



TW110T1

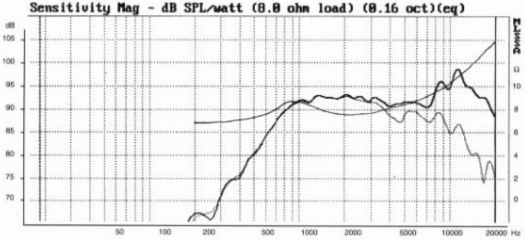
TWEETER

RESPONSE CURVE

refer to page 16

RESPONSE CURVE :
— on axis
— 30° off-axis
On IEC baffle

IMPEDANCE CURVE



COURBE DE REPONSE
— dans l'axe
— à 30°
Sur baffle CEI

COURBE D'IMPEDANCE

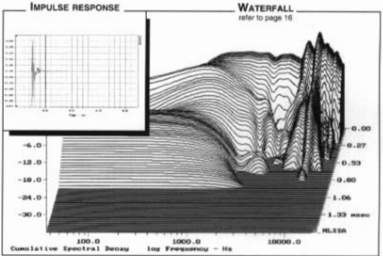
SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	700	Hz
Nominal Power Handling	P	80	W
Sensitivity	E	93	dB
VOICE COIL			
Voice coil diameter	Ø	20	mm
Minimum Impedance	Zmin	8,3	Ω
DC Resistance	Re	6,5	Ω
Voice Coil Inductance	Lbm	111	µH
Voice coil Length	h	4	mm
Former	-	Kapton	-
Number of layers	n	2	-
MAGNET			
Magnet dimensions	Ø x h	72 x 15	mm
Magnet weight	m	0,24	kg
Flux density	B	1,15	T
Force factor	BL	-	NA^{-1}
Height of magnetic gap	He	3	mm
Stray flux	Fmag	-	Am^{-1}
Linear excursion	Xmax	-	mm
PARAMETERS			
Suspension Compliance	Cms	-	mN^{-1}
Mechanical Q Factor	Qms	-	-
Electrical Q Factor	Qes	-	-
Total Q Factor	Qts	-	-
Mechanical Resistance	Rms	-	$kg\ s^{-1}$
Moving Mass	Mms	-	kg
Effective Piston Area	S	33.10^{-4}	m^2
Volume Equivalent of Air at Cas	Vas	-	m^3
Mass of speaker	M	0,5	kg

IMPULSE RESPONSE

WATERFALL

refer to page 16

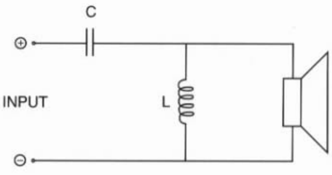


APPLICATION PARAMETERS

Fc	Crossover Frequency	Hz
S	Slope	dB / Oct.
L	Self-inductance	mH
C	Capacitor	µF
P	Nominal Power Handling	W

SUGGESTED APPLICATIONS

refer to page 8 to 13



Fc	S	L	C	P
2500	12	0,36	6,6	80
4000	12	0,30	4,8	120

Please refer to method of measurement and measurement conditions pages 15 to 19.