



MIDRANGE

4" - TPX CONE DRIVER - 100 mm

PRESTIGE SERIES

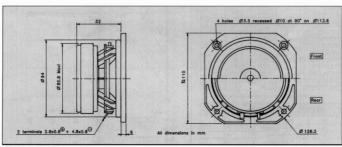
TPX cone
Non resonant die cast chassis
Ventilated chassis under spider
High loss, high compliance rubber surround
Pure Titanium voice coil former
High loss, phase plug
Gold plated terminals

Cône TPX Châssis Zamak moulé non résonant Fond ventilé Suspenson caouthouc amortissant h' compliance Bobine sur support pur Titane Ogive non résonante Connectique plaquée or



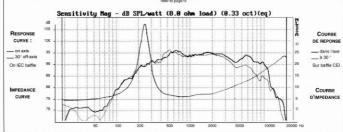
This 4" midrange driver features a patented TPX diaphragm coupled to a high loss Norsores suspension. TPX is an advanced polymer that is extremely rigid, very light and possesses high internal damping. Norsorex is a remarkably well damped material which is used to eliminate undesirable distortion generated from the cone. The pure Titanium former ensures that the transfer of energy from the voice coil to the cone is maximized. The Supra Magnet Structure (short coil in a wide gap) promotes better transferr response and provides motional linearity. Unobstructed venting of the Zamak die cast chassis contributes to the dramatic transfer response. The mooth frequency response, equalized with a Norsorex phase plug, minimizes the need for a complex crossover. Gold plated terminals ofter excellent solderability. A crossover design is suggested in Fig. 1 and corresponding chart for matching this driver with a wooder in our line is provided. Easily coupled with 2nd order crossover as shown Fig. 1. Two crossover points are suggested for adequated power handling.

Ce médium de 100 mm est doté d'un cône en TPX, brevet Audax, matériau offrant d'exceptionnelles propriétés d'arnorissement interne, de rigidité et de faible densife (0.83). Le cone TPX est associé à une suspension en Nossores contrôlant et eliminant est elemantes et les modes parasites du cône. Le support de bobine en Titane pur assure une transmission optimale de l'êmergie de la bobine mobile à la membrane. La structure magnétique "Supa" d'hobine plus courte que l'entréerje permet une meilleure réponse en transitoire et une bonne linéarité motionnels et réponse en fréquence linéarie régularisée par une ogive en Norsores non résonate lite passente l'utilisation d'un filtre à notation de plas réduite, la connectique plaquée or permet une excellente soubabilité. Un shéma de filtre passe terp propse d'fig 1) pour un raccordement optimisé aux woorders de notre série. Il peur 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 adequaire.



MIDRANGE





SPECIFICATIONS						
Technical Characteristics	Symbol	Value	Units			
PRIMARY	APPLICAT	TION				
Nominal Impedance	Z	8	Ω			
Resonance Frequency	Fs	235	Hz			
Nominal Power Handling	P	40	W			
Sensitivity	E	94	dB			
VOIC	CE COIL	73.77	NO INC.			
Voice coil diameter	Ø	25	mm			
Minimum Impedance	Zmin	5,5	Ω			
DC Resistance	Re	5,2	Ω			
Voice Coil Inductance	Lbm	0,35	mH			
Voice coil Length	h	3,4	mm			
Former		Titane				
Number of layers	n	4				
MA	GNET	The second				
Magnet dimensions	Øxh	84 x 15	mm			
Magnet weight	m	0,35	kg			
Flux density	В	1,1	T			
Force factor	BL	5,85	NA.			
Height of magnetic gap	He	5	mm			
Stray flux	Fmag	100	Am:			

Height of magnetic gap	He	5	mm
Stray flux	Fmag		Am'
Linear excursion	Xmax	8,0	mm
PARA	METERS	N. Const	
Suspension Compliance	Cms	0,17.10*	mN ⁻¹
Mechanical Q Factor	Qms	4,45	*
Electrical Q Factor	Qes	0,61	
Total Q Factor	Qts	0,54	-
Mechanical Resistance	Rms	0,9	kg s
Moving Mass	Mms	2,71.10°	kg
Effective Piston Area	S	0,52.10°	m²
Volume Equivalent of Air at Cas	Vas	0,65.10°	m°
Mass of speaker	M	1	kg

APPLICATION PARAMETERS			
Fc	Crossover Frequency	Hz	
S	Slope	dB / Oct.	
L	Self-inductance	mF	
С	Capacitor	μF	
P	Nominal Power Handling	W	

