



T8124A Technical Data Report
Thunder 8000A 12" 4 Ohm Subwoofer

Features - Características - Caractéristiques - Technische Informationen

Mica-filled polypropylene cone, with aluminum finish - Cono de aleación de Polipropileno con Mica - Cône polypropylene rempli de mica - Mika-gefüllter Polypropylen-Schalltrichter mit Aluminiumüberzug
12 Stiffening Ribs - 12 costillas de refuerzo - 12 nervures de renforcement - 12 Versteifungsrippen
Machine Turned Plates - Placas maquinadas - Plaques de champ fraisées - Maschinell geschliffene platte
Spider Plateau Venting - Ventilación de la placa de la pieza de centrado - Aération plateau à croisillons - Zentriermembranplateau-Entlüftung
Apical Voice Coil Former - Formador Cilíndrico de Bobina de Voz - Gabarit de bobine de voix apical - Sprechspulenkörper
Laminated, hot pressed, Nomex & Polycotton spider - Circuito de Suspensión de Nomex y Polialgodón - Spider de nomex et de polyester et coton - Laminierte, warmgepresste Nomex- und Polycotton-Suspensionen
Asymmetrical Linear Drive - Excitación lineal asimétrica - Asymmetrical Linear Drive System - Asymmetrisches, lineares Antriebssystem
Congruent Edge Technology - Tecnología de borde continuo - Technologie de pointe congruente - Kongruenzkantentechnologie
Extended Pole Piece - Pieza polar extendida - Morceau polaire étendu - Erweitert Stabteil
Polyimide Voice Coil Former - Formador de Bobina de Voz de poliamide - Gabarit de bobine de voix de polyamide - Polyamide Stimmformerspule

Specifications - Especificaciones - Données techniques - Spezifikationen

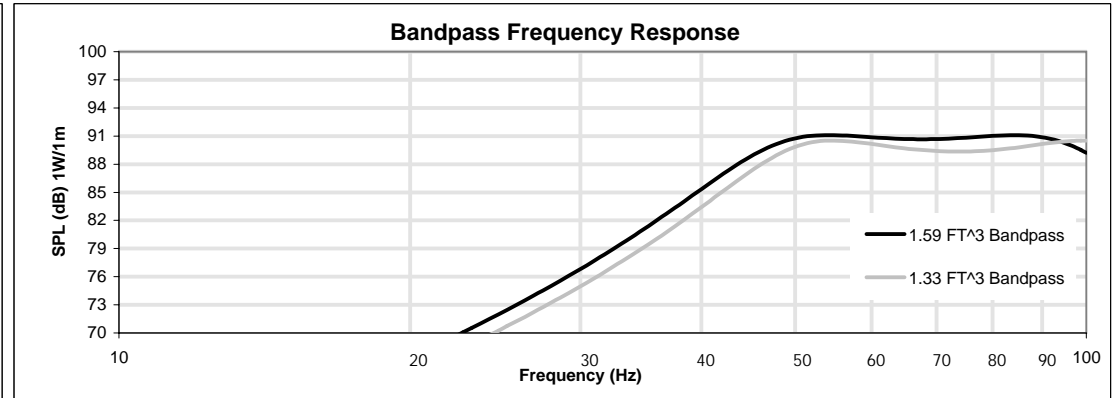
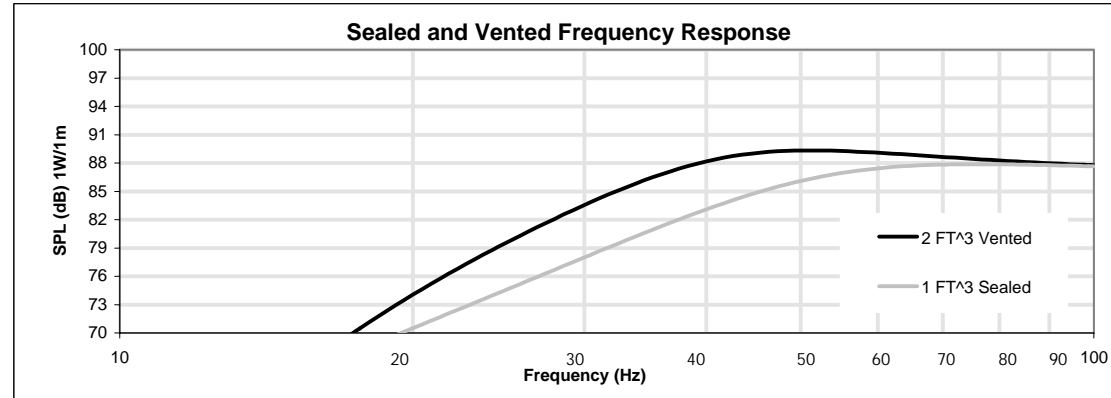
Free Air Resonance - Resonancia de atmósfera libre - Fréquence de résonance - Free Air-Resonanz	Fs	26.2 Hz
Volume Acoustic Suspension - Volumen de suspensión acústica - Volume équivalent à l'élasticité de la suspension - Äquivalenzvolumen	Vas	2.72 Ft^3 (77.0 l)
Total Q - Q total - Coefficient de surtension total - Gesamtgüte	Qts	.45
Electrical Q - Q eléctrica - Coefficient de surtension électrique - Elektrische Güte	Qes	.49
Mechanical Q - Q mecánica - Coefficient de surtension mécanique - Mechanische Güte	Qms	5.00
DC Resistance - Resistencia de CC - Résistance de la bobine au courant continu - Gleichstromwiderstand	Re	3.73 Ohm
Linear Excursion (One Way) - Excursión lineal (unidireccional) - Excursion maximum (dans un sens) - Lineare Auslenkung (eine Richtung)	Xmax	.48" (12.2 mm)
Effective Piston Diameter - Diámetro efectivo del pistón - Diamètre de la membrane - Effektiver Kolbendurchmesser	D	10.315" (.2620 m)
RMS Power Handling - Potencia máxima efectiva - Puissance RMS - Nennbelastbarkeits-Effektivwert	RMS	400 Watts
Recommended Amplifier Power - Potencia de amplificación recomendada - Puissance recommandée - Empfohlene Verstärkerleistung	RMS	75-400 Watts
Sensitivity 1W/1m - Sensibilidad - Efficacité 1W/1m - Empfindlichkeit	SPLo	86.6 dB
Reference Efficiency - Eficiencia de referencia - Efficacité de référence - Bezugswirkungsgrad	No	0.27%
Frequency Response - Respuesta de frecuencia - Réponse en fréquence - Frequenzgang		23 - 150Hz
Voice Coil Inductance - Inductancia de la bobina móvil - Inductance de la bobine mobile - Schwingspuleninduktivität	Le	2.5 mH
Gap Height - Altura del espacio - Hauteur de l'entrefer - Abstandshöhe		.393" (10.0 mm)
Voice Coil Height - Altura de la bobina móvil - Hauteur de la bobine - Schwingspulenhöhe		1.234" (31.3 mm)
Voice Coil Diameter - Diámetro del Bobina móvil - Diamètre de la bobine - Schwingspuledurchmesser		2.5" (63.5 mm)
Magnet Weight - Imán - Poids de la structure magnétique - Magnet		102 oz (2892 g)
Motor Force - Fuerza motriz - Facteur force - Schwingkraft	BL	15.65 Tm
Compliance - Cumplimiento - Compliance - Compliance	Cms	.189 mm/N
Total Moving Mass - Masa total en movimiento - Masse totale en mouvement - Gesamte bewegte Masse	Mms	195.6 g
Moving Mass of Driver - Masa en movimiento del altavoz - Poids de la membrane - Bewegte Masse des Subwoofers	Mmd	188.4 g
Suspension Losses - Pérdidas de suspensión - Pertes dans la suspension - Aufhängungsverlust	Rms	6.44
Effective Surface Area - Área superficial efectiva - Surface de la membrane - Wirksame Oberfläche	Sd	83.6 in^2 (.0539m^2)
Mounting Diameter - Diámetro de montaje - Diamètre de montage - Einbaudurchmesser	11"	(279.4 mm)
Overall Diameter - Diámetro total - Diamètre extérieur - Gesamtdurchmesser	12 11/16"	(322.3 mm)
Mounting Depth - Profundidad de montaje - Profondeur de montage - Einbautiefe	5 5/8"	(142.9 mm)
Overall Depth - Profundidad total - Profondeur totale - Gesamttiefe	6 1/4"	(158.8 mm)
Speaker Displacement (Inside Box) - Desplazamiento del altavoz (caja interior) - Volume occupé par le haut-parleur (montage intérieur) - Lautsprecherverdrängung (im Gehäuse)	247in^2	(4.0 l)
Speaker Displacement (Outside Box) - Desplazamiento del altavoz (caja exterior) - Volume occupé par le haut-parleur (montage extérieur) - Lautsprecherverdrängung (außerhalb des Gehäuses)	172in^2	(2.8 l)

*Dual voice coil models measured with coils in parallel



T8124A Technical Data Report

Thunder 8000A 12" 4 Ohm Subwoofer



Sealed Enclosures - Gabinetes Sellados - Caissons Clos - Geschlossene Gehäuse

Enclosure Volume	1.00 Ft ³ (28.3 l)	1.25 Ft ³ (35.4 l)	1.50 Ft ³ (42.5 l)	1.75 Ft ³ (49.6 l)	2.00 Ft ³ (56.6 l)
F3	44 Hz	40 Hz	40 Hz	39 Hz	38 Hz
Ripple	.23dB	.11dB	.04dB	.00dB	.00dB
Qtc	.89	.82	.77	.73	.70
Net Volume	.90 Ft ³ (25.5 l)	1.15 Ft ³ (32.6 l)	1.40 Ft ³ (39.7 l)	1.65 Ft ³ (46.7 l)	1.90 Ft ³ (53.8 l)
Driver Volume	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)
Excursion Limited SPL	114dB	113dB	113dB	113dB	113dB
Excursion Limited Power	400 Watts	400 Watts	400 Watts	400 Watts	400 Watts

Vented Enclosures - Gabinetes ventilados - Caissons Bass Reflex - Ventilierte Gehäuse

Enclosure Volume	2.00 Ft ³ (56.6 l)	2.25 Ft ³ (63.7 l)	2.50 Ft ³ (70.8 l)	2.75 Ft ³ (77.9 l)	3.00 Ft ³ (85.0 l)
Vent Dimensions	4"x18"	4"x18"	4"x16"	4"x15.25"	4"x14.75"
F3	30 Hz	28 Hz	28 Hz	25 Hz	24 Hz
Tuning Frequency	30 Hz	28 Hz	28 Hz	27 Hz	26 Hz
Ripple	1.57dB	1.29dB	1.31dB	1.18dB	1.02dB
Net Volume	1.76 Ft ³ (49.8 l)	2.01 Ft ³ (56.9 l)	2.28 Ft ³ (64.4 l)	2.53 Ft ³ (71.7 l)	2.79 Ft ³ (78.9 l)
Driver Volume	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)
Vent Volume	.14 Ft ³ (4.0 l)	.14 Ft ³ (4.0 l)	.13 Ft ³ (3.5 l)	.12 Ft ³ (3.4 l)	.11 Ft ³ (3.3 l)
Excursion Limited SPL	115dB	115dB	114dB	114dB	114dB
Excursion Limited Power	400 Watts	400 Watts	400 Watts	400 Watts	400 Watts

Single Reflex Bandpass Enclosures - Gabinetes reflectores sencillos de paso de banda - Caissons Bandpass à une chambre reflex - Bassreflex-Bandpassgehäuse

s=0.5

Enclosure Volume	1.13 Ft ³ (32.0 l)	1.22 Ft ³ (34.6 l)	1.33 Ft ³ (37.7 l)	1.48 Ft ³ (41.9 l)	1.68 Ft ³ (47.6 l)
Bandpass	52 - 134	47 - 129	42 - 124	37 - 119	32 - 114
Bandpass Gain	4.9dB	3.8dB	2.6dB	1.3dB	-.2dB
Vent Dimensions	(2)4"x13.25"	(2)4"x15.75"	(2)4"x18.75"	(2)4"x23"	(2)4"x28.25"
Tuning Frequency	85 Hz	79 Hz	74 Hz	68 Hz	62 Hz
Ripple	1.10dB	1.14dB	1.18dB	1.22dB	1.26dB
Sealed Volume	.29 Ft ³ (8.2 l)	.33 Ft ³ (9.5 l)	.40 Ft ³ (11.2 l)	.48 Ft ³ (13.5 l)	.59 Ft ³ (16.8 l)
Vented Volume	.54 Ft ³ (15.3 l)	.54 Ft ³ (15.3 l)	.54 Ft ³ (15.3 l)	.54 Ft ³ (15.3 l)	.54 Ft ³ (15.3 l)
Driver Volume	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)
Vent Volume	.21 Ft ³ (5.8 l)	.25 Ft ³ (7.0 l)	.30 Ft ³ (8.4 l)	.37 Ft ³ (10.3 l)	.45 Ft ³ (12.8 l)
Excursion Limited SPL	118dB	117dB	116dB	115dB	114dB
Excursion Limited Power	400 Watts	400 Watts	400 Watts	400 Watts	400 Watts

Single Reflex Bandpass Enclosures - Gabinetes reflectores sencillos de paso de banda - Caissons Bandpass à une chambre reflex - Bassreflex-Bandpassgehäuse

s=0.6

Enclosure Volume	1.38 Ft ³ (39.1 l)	1.47 Ft ³ (41.6 l)	1.59 Ft ³ (45.0 l)	1.76 Ft ³ (49.8 l)	1.99 Ft ³ (56.4 l)
Bandpass	51 - 116	46 - 111	43 - 106	38 - 101	33 - 96
Bandpass Gain	6.2dB	5.1dB	3.9dB	2.6dB	1.1dB
Vent Dimensions	(2)4"x10"	(2)4"x12"	(2)4"x14.75"	(2)4"x18.25"	(2)4"x23"
Tuning Frequency	78 Hz	73 Hz	68 Hz	62 Hz	57 Hz
Ripple	.41dB	.43dB	.44dB	.47dB	.49dB
Sealed Volume	.34 Ft ³ (9.7 l)	.40 Ft ³ (11.4 l)	.48 Ft ³ (13.6 l)	.59 Ft ³ (16.7 l)	.74 Ft ³ (21.1 l)
Vented Volume	.78 Ft ³ (22.1 l)	.78 Ft ³ (22.1 l)	.78 Ft ³ (22.1 l)	.78 Ft ³ (22.1 l)	.78 Ft ³ (22.1 l)
Driver Volume	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)	.10 Ft ³ (2.8 l)
Vent Volume	.15 Ft ³ (4.3 l)	.18 Ft ³ (5.2 l)	.23 Ft ³ (6.5 l)	.29 Ft ³ (8.1 l)	.37 Ft ³ (10.3 l)
Excursion Limited SPL	119dB	118dB	117dB	116dB	114dB
Excursion Limited Power	400 Watts	400 Watts	400 Watts	400 Watts	400 Watts

One Year Limited Warranty

MTX Loudspeakers purchased in the United States from an authorized MTX dealer are guaranteed against defects in material and workmanship for a period of ONE YEAR from the date purchased by the end user, and limited to the original retail purchaser of the product. Product found to be defective during that period will be repaired or replaced by MTX at no charge. This warranty is void if it is determined that unauthorized parties have attempted repairs or alterations of any nature. Warranty does not extend to cosmetics or finish. Before presuming a defect is present in the product, be certain that all related equipment and wiring is functioning properly. MTX disclaims any liability for other incurred damages resulting from product defects. Any expenses incurred in the removal and reinstallation of products are not covered by this warranty. MTX's total liability will not exceed the purchase price of the product. If a defect is present, your authorized MTX dealer may be able to effect repairs. Proof of purchase is required when requesting service, so please retain your sales receipt and take a moment to register your warranty on line @ www.mtx.com.