



T4128A Technical Data Report
Thunder 4000A 12" 8 Ohm Subwoofer

Features - Características - Caractéristiques - Technische Informationen

- Spider Plateau Venting** - Ventilación de la placa de la pieza de centrado - Aération plateau à croisillons - Zentriermembranplateau-Entlüftung
- Folded Window Basket** - Canastilla en ventana doblada - Châssis embouti et replié - Gefalteter Fensterkorb
- Flat Progressive Spider** - Pieza de centrado progresiva plana - Spider Plat Progressif - Flache, progressive Zentriermembran
- Asymmetrical Linear Drive** - Excitación lineal asimétrica - Asymmetrical Linear Drive System - Asymmetrisches, lineares Antriebssystem
- Strontium Ferrite Magnet** - Imán de ferrita de estroncio - Structure magnétique en strontium - Strontiumferritmagnet
- High-End gasket design** - Avanzado diseño de la junta - Joint extérieur avec finition haut de gamme - High-End-Dichtungsdesign
- Machine Turned Plates** - Placas maquinadas - Plaques de champ fraisées - Maschinell geschliffene platte
- Polyimide Voice Coil Former** - Formador de Bobina de Voz de poliamide - Gabarit de bobine de voix de polyamide - Polyamide Stimmformerspule
- Extended Pole Piece** - Pieza polar extendida - Morceau polaire étendu - Erweitert Stabteil

Specifications - Especificaciones - Données techniques - Spezifikationen

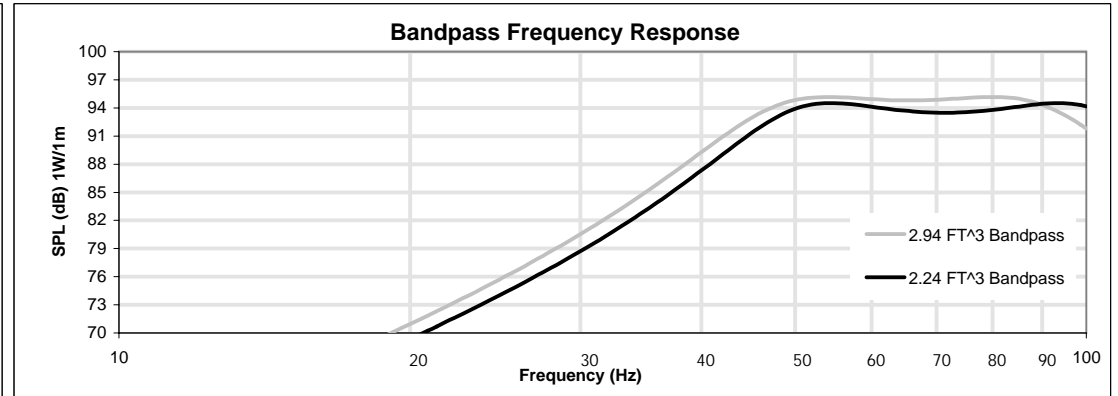
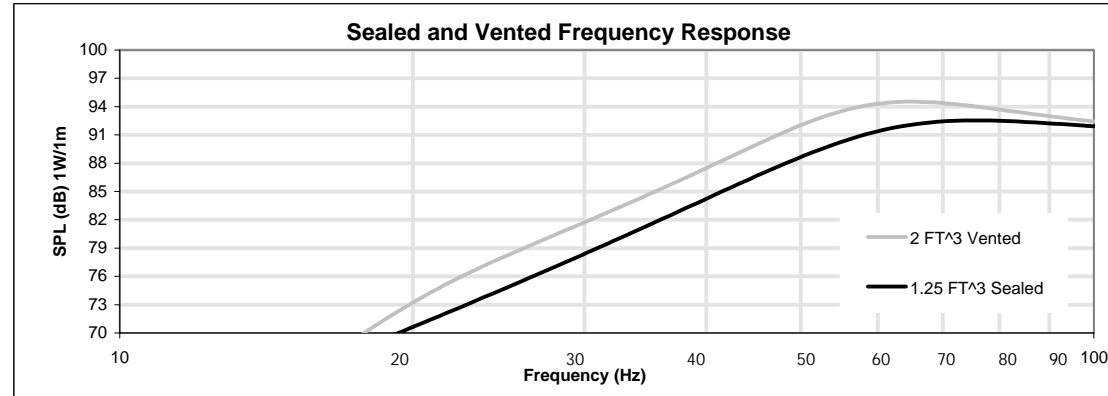
Free Air Resonance - Resonancia de atmósfera libre - Fréquence de résonance - Free Air-Resonanz	Fs	30.4 Hz
Volume Acoustic Suspension - Volumen de suspensión acústica - Volume équivalent à l'élasticité de la suspension - Äquivalenzvolumen	Vas	3.78 Ft^3 (107.0 l)
Total Q - Q total - Coefficient de surtension total - Gesamtgüte	Qts	.57
Electrical Q - Q eléctrica - Coefficient de surtension électrique - Elektrische Güte	Qes	.62
Mechanical Q - Q mecánica - Coefficient de surtension mécanique - Mechanische Güte	Qms	7.53
DC Resistance - Resistencia de CC - Résistance de la bobine au courant continu - Gleichstromwiderstand	Re	6.33 Ohm
Linear Excursion (One Way) - Excursión lineal (unidireccional) - Excursion maximum (dans un sens) - Lineare Auslenkung (eine Richtung)	Xmax	.32" (8.1 mm)
Effective Piston Diameter - Diámetro efectivo del pistón - Diamètre de la membrane - Effektiver Kolbendurchmesser	D	10.217" (.2595 m)
RMS Power Handling - Potencia máxima efectiva - Puissance RMS - Nennbelastbarkeits-Effektivwert	RMS	200 Watts
Recommended Amplifier Power - Potencia de amplificación recomendada - Puissance recommandée - Empfohlene Verstärkerleistung	RMS	50-200 Watts
Sensitivity 1W/1m - Sensibilidad - Efficacité 1W/1m - Empfindlichkeit	SPLo	89.7 dB
Reference Efficiency - Eficiencia de referencia - Efficacité de référence - Bezugswirkungsgrad	No	0.47%
Frequency Response - Respuesta de frecuencia - Réponse en fréquence - Frequenzgang		30 - 150Hz
Voice Coil Inductance - Inductancia de la bobina móvil - Inductance de la bobine mobile - Schwingspuleninduktivität	Le	2.3 mH
Gap Height - Altura del espacio - Hauteur de l'entrefer - Abstandshöhe		.314" (8.0 mm)
Voice Coil Height - Altura de la bobina móvil - Hauteur de la bobine - Schwingspulenhöhe		.875" (22.2 mm)
Voice Coil Diameter - Diámetro del Bobina móvil - Diamètre de la bobine - Schwingspuledurchmesser		1.5" (38.1 mm)
Magnet Weight - Imán - Poids de la structure magnétique - Magnet		30 oz (850 g)
Motor Force - Fuerza motriz - Facteur force - Schwingkraft	BL	14.02 Tm
Compliance - Cumplimiento - Compliance - Compliance	Cms	.272 mm/N
Total Moving Mass - Masa total en movimiento - Masse totale en mouvement - Gesamte bewegte Masse	Mms	100.3 g
Moving Mass of Driver - Masa en movimiento del altavoz - Poids de la membrane - Bewegte Masse des Subwoofers	Mmd	93.4 g
Suspension Losses - Pérdidas de suspensión - Pertes dans la suspension - Aufhängungsverlust	Rms	2.55
Effective Surface Area - Área superficial efectiva - Surface de la membrane - Wirksame Oberfläche	Sd	82.0 in^2 (.0529m^2)
Mounting Diameter - Diámetro de montaje - Diamètre de montage - Einbaudurchmesser	11 "	(279.4 mm)
Overall Diameter - Diámetro total - Diamètre extérieur - Gesamtdurchmesser	12 7/16"	(315.9 mm)
Mounting Depth - Profundidad de montaje - Profondeur de montage - Einbautiefe	5 1/2 "	(139.7 mm)
Overall Depth - Profundidad total - Profondeur totale - Gesamttiefe	5 15/16"	(150.8 mm)
Speaker Displacement (Inside Box) - Desplazamiento del altavoz (caja interior) - Volume occupé par le haut-parleur (montage intérieur) - Lautsprecherverdrängung (im Gehäuse)	180in^2	(3.0 l)
Speaker Displacement (Outside Box) - Desplazamiento del altavoz (caja exterior) - Volume occupé par le haut-parleur (montage extérieur) - Lautsprecherverdrängung (außerhalb des Gehäuses)	130in^2	(2.1 l)

*Dual voice coil models measured with coils in parallel



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Sealed Enclosures - Gabinetes Sellados - Caissons Clos - Geschlossene Gehäuse

Enclosure Volume	1.00 Ft³ (28.3 l)	1.25 Ft³ (35.4 l)	1.50 Ft³ (42.5 l)	1.75 Ft³ (49.6 l)	2.00 Ft³ (56.6 l)
F3	54 Hz	49 Hz	47 Hz	45 Hz	43 Hz
Ripple	.62dB	.64dB	.58dB	.51dB	.44dB
Qtc	1.29	1.17	1.09	1.03	.98
Net Volume	.92 Ft³ (26.2 l)	1.17 Ft³ (33.3 l)	1.42 Ft³ (40.3 l)	1.67 Ft³ (47.4 l)	1.92 Ft³ (54.5 l)
Driver Volume	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)
Excursion Limited SPL	115dB	115dB	114dB	114dB	113dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	199 Watts	177 Watts

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

Enclosure Volume	2.00 Ft³ (56.6 l)	2.25 Ft³ (63.7 l)	2.50 Ft³ (70.8 l)	2.75 Ft³ (77.9 l)	3.00 Ft³ (85.0 l)
Vent Dimensions	4"x10.5"	4"x12"	4"x14"	4"x11.5"	4"x15"
F3	42 Hz	39 Hz	37 Hz	35 Hz	34 Hz
Tuning Frequency	37 Hz	33 Hz	29 Hz	30 Hz	26 Hz
Ripple	2.10dB	1.84dB	1.53dB	1.67dB	1.21dB
Net Volume	1.84 Ft³ (52.2 l)	2.08 Ft³ (59.0 l)	2.32 Ft³ (65.6 l)	2.59 Ft³ (73.3 l)	2.81 Ft³ (79.5 l)
Driver Volume	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)
Vent Volume	.08 Ft³ (2.3 l)	.09 Ft³ (2.6 l)	.11 Ft³ (3.1 l)	.09 Ft³ (2.5 l)	.12 Ft³ (3.3 l)
Excursion Limited SPL	117dB	116dB	115dB	115dB	114dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 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	1.96 Ft³ (55.5 l)	2.08 Ft³ (58.9 l)	2.24 Ft³ (63.4 l)	2.46 Ft³ (69.7 l)	2.78 Ft³ (78.7 l)
Bandpass	52 - 126	47 - 121	42 - 116	37 - 111	34 - 106
Bandpass Gain	5.9dB	4.8dB	3.7dB	2.3dB	.9dB
Vent Dimensions	(2)4"x3.75"	(2)4"x5"	(2)4"x6.5"	(2)4"x8.5"	(2)4"x11"
Tuning Frequency	82 Hz	77 Hz	71 Hz	66 Hz	60 Hz
Ripple	.96dB	1.00dB	1.04dB	1.08dB	1.12dB
Sealed Volume	.60 Ft³ (17.0 l)	.70 Ft³ (19.9 l)	.84 Ft³ (23.7 l)	1.03 Ft³ (29.1 l)	1.31 Ft³ (37.0 l)
Vented Volume	1.23 Ft³ (34.9 l)	1.23 Ft³ (34.9 l)	1.23 Ft³ (34.9 l)	1.23 Ft³ (34.9 l)	1.23 Ft³ (34.9 l)
Driver Volume	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)
Vent Volume	.05 Ft³ (1.4 l)	.07 Ft³ (2.0 l)	.09 Ft³ (2.7 l)	.13 Ft³ (3.6 l)	.17 Ft³ (4.8 l)
Excursion Limited SPL	119dB	118dB	117dB	115dB	113dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	153 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	2.59 Ft³ (73.3 l)	2.74 Ft³ (77.6 l)	2.94 Ft³ (83.3 l)	3.22 Ft³ (91.2 l)	3.65 Ft³ (103.4 l)
Bandpass	51 - 110	48 - 105	43 - 100	37 - 95	32 - 90
Bandpass Gain	7.3dB	6.2dB	5.0dB	3.6dB	2.1dB
Vent Dimensions	(2)4"x2.25"	(2)4"x3.25"	(2)4"x4.5"	(2)4"x6.25"	(2)4"x8.5"
Tuning Frequency	76 Hz	71 Hz	66 Hz	60 Hz	55 Hz
Ripple	.32dB	.34dB	.36dB	.38dB	.40dB
Sealed Volume	.72 Ft³ (20.3 l)	.85 Ft³ (24.1 l)	1.03 Ft³ (29.1 l)	1.28 Ft³ (36.4 l)	1.67 Ft³ (47.4 l)
Vented Volume	1.77 Ft³ (50.2 l)	1.77 Ft³ (50.2 l)	1.77 Ft³ (50.2 l)	1.77 Ft³ (50.2 l)	1.77 Ft³ (50.2 l)
Driver Volume	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)	.08 Ft³ (2.1 l)
Vent Volume	.02 Ft³ (0.7 l)	.04 Ft³ (1.2 l)	.06 Ft³ (1.7 l)	.09 Ft³ (2.6 l)	.13 Ft³ (3.6 l)
Excursion Limited SPL	119dB	118dB	117dB	115dB	112dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	175 Watts	131 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.