



T4154A Technical Data Report Thunder 4000A 15" 4 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

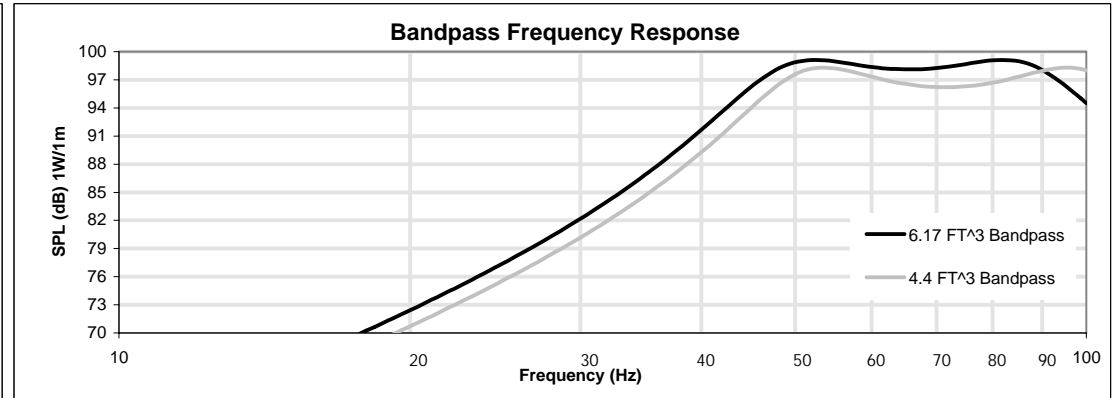
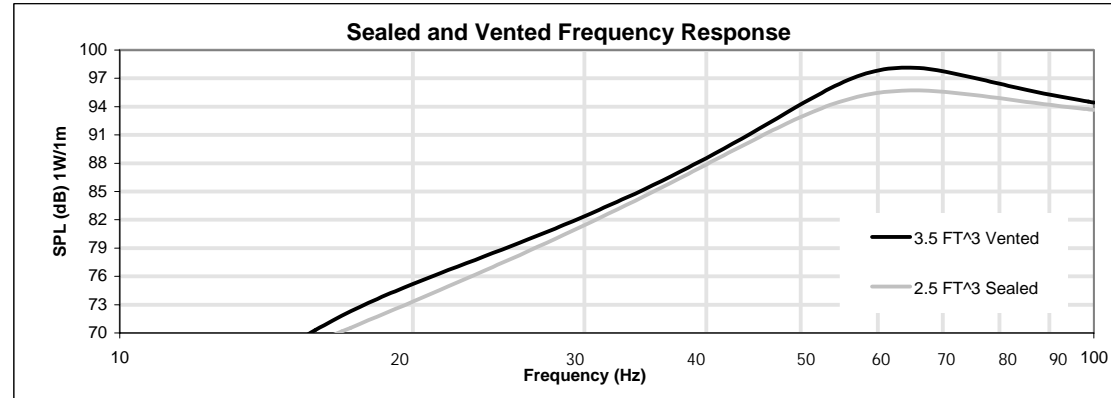
Free Air Resonance - Resonancia de atmósfera libre - Fréquence de résonance - Free Air-Resonanz	Fs	25.2 Hz
Volume Acoustic Suspension - Volumen de suspensión acústica - Volume équivalent à l'élasticité de la suspension - Äquivalenzvolumen	Vas	10.56 Ft^3 (299.0 l)
Total Q - Q total - Coefficient de surtension total - Gesamtgüte	Qts	.63
Electrical Q - Q eléctrica - Coefficient de surtension électrique - Elektrische Güte	Qes	.70
Mechanical Q - Q mecánica - Coefficient de surtension mécanique - Mechanische Güte	Qms	6.67
DC Resistance - Resistencia de CC - Résistance de la bobine au courant continu - Gleichstromwiderstand	Re	3.27 Ohm
Linear Excursion (One Way) - Excursión lineal (unidireccional) - Excursion maximum (dans un sens) - Lineare Auslenkung (eine Richtung)	Xmax	.37" (9.4 mm)
Effective Piston Diameter - Diámetro efectivo del pistón - Diamètre de la membrane - Effektiver Kolbendurchmesser	D	12.969" (.3294 m)
RMS Power Handling - Potencia máxima efectiva - Puissance RMS - Nennbelastbarkeits-Effektivwert	RMS	250 Watts
Recommended Amplifier Power - Potencia de amplificación recomendada - Puissance recommandée - Empfohlene Verstärkerleistung	RMS	50-250 Watts
Sensitivity 1W/1m - Sensibilidad - Efficacité 1W/1m - Empfindlichkeit	SPLo	91.0 dB
Reference Efficiency - Eficiencia de referencia - Efficacité de référence - Bezugswirkungsgrad	No	0.65%
Frequency Response - Respuesta de frecuencia - Réponse en fréquence - Frequenzgang		27 - 150Hz
Voice Coil Inductance - Inductancia de la bobina móvil - Inductance de la bobine mobile - Schwingspuleninduktivität	Le	2.0 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		.961" (24.4 mm)
Voice Coil Diameter - Diámetro del Bobina móvil - Diamètre de la bobine - Schwingspuledurchmesser		2.0" (50.8 mm)
Magnet Weight - Imán - Poids de la structure magnétique - Magnet		37 oz (1049 g)
Motor Force - Fuerza motriz - Facteur force - Schwingkraft	BL	10.05 Tm
Compliance - Cumplimiento - Compliance - Compliance	Cms	.293 mm/N
Total Moving Mass - Masa total en movimiento - Masse totale en mouvement - Gesamte bewegte Masse	Mms	136.1 g
Moving Mass of Driver - Masa en movimiento del altavoz - Poids de la membrane - Bewegte Masse des Subwoofers	Mmd	121.8 g
Suspension Losses - Pérdidas de suspensión - Pertes dans la suspension - Aufhängungsverlust	Rms	3.23
Effective Surface Area - Área superficial efectiva - Surface de la membrane - Wirksame Oberfläche	Sd	132.1 in^2 (.0852m^2)
Mounting Diameter - Diámetro de montaje - Diamètre de montage - Einbaudurchmesser		13 13/16" (350.8 mm)
Overall Diameter - Diámetro total - Diamètre extérieur - Gesamtdurchmesser		15 3/16" (385.8 mm)
Mounting Depth - Profundidad de montaje - Profondeur de montage - Einbautiefe		6 5/8" (168.3 mm)
Overall Depth - Profundidad total - Profondeur totale - Gesamttiefe		7 1/16" (179.4 mm)
Speaker Displacement (Inside Box) - Desplazamiento del altavoz (caja interior) - Volume occupé par le haut-parleur (montage intérieur) - Lautsprecherverdrängung (im Gehäuse)		285in^2 (4.7 l)
Speaker Displacement (Outside Box) - Desplazamiento del altavoz (caja exterior) - Volume occupé par le haut-parleur (montage extérieur) - Lautsprecherverdrängung (außerhalb des Gehäuses)		175in^2 (2.9 l)

*Dual voice coil models measured with coils in parallel



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Sealed Enclosures - Gabinetes Sellados - Caissons Clos - Geschlossene 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)
F3	50 Hz	47 Hz	45 Hz	43 Hz	40 Hz
Ripple	2.07dB	2.10dB	2.07dB	2.03dB	1.97dB
Qtc	1.62	1.54	1.47	1.41	1.36
Net Volume	1.90 Ft ³ (53.8 l)	2.15 Ft ³ (60.9 l)	2.40 Ft ³ (67.9 l)	2.65 Ft ³ (75.0 l)	2.90 Ft ³ (82.1 l)
Driver Volume	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)
Excursion Limited SPL	120dB	119dB	119dB	119dB	118dB
Excursion Limited Power	250 Watts	250 Watts	250 Watts	250 Watts	250 Watts

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

Enclosure Volume	3.00 Ft ³ (85.0 l)	3.25 Ft ³ (92.0 l)	3.50 Ft ³ (99.1 l)	3.75 Ft ³ (106.2 l)	4.00 Ft ³ (113.3 l)
Vent Dimensions	(2)4"x14"	(2)4"x13"	(2)4"x11"	(2)4"x12"	(2)4"x14"
F3	47 Hz	45 Hz	43 Hz	41 Hz	39 Hz
Tuning Frequency	37 Hz	37 Hz	37 Hz	35 Hz	32 Hz
Ripple	3.31dB	3.46dB	3.69dB	3.62dB	3.42dB
Net Volume	2.68 Ft ³ (75.9 l)	2.95 Ft ³ (83.5 l)	3.23 Ft ³ (91.5 l)	3.46 Ft ³ (98.1 l)	3.68 Ft ³ (104.3 l)
Driver Volume	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)
Vent Volume	.22 Ft ³ (6.2 l)	.20 Ft ³ (5.7 l)	.17 Ft ³ (4.8 l)	.18 Ft ³ (5.2 l)	.22 Ft ³ (6.2 l)
Excursion Limited SPL	121dB	121dB	121dB	121dB	120dB
Excursion Limited Power	250 Watts	250 Watts	250 Watts	250 Watts	250 Watts

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

s=0.4

Enclosure Volume	4.04 Ft ³ (114.4 l)	4.30 Ft ³ (121.8 l)	4.40 Ft ³ (124.6 l)	4.76 Ft ³ (134.8 l)	5.27 Ft ³ (149.2 l)
Bandpass	52 - 125	47 - 121	44 - 116	39 - 111	34 - 106
Bandpass Gain	7.3dB	6.2dB	5.1dB	3.7dB	2.3dB
Vent Dimensions	(6)4"x3.75"	(6)4"x5.5"	(4)4"x3.75"	(4)4"x5.5"	(4)4"x7.75"
Tuning Frequency	82 Hz	77 Hz	71 Hz	66 Hz	60 Hz
Ripple	1.94dB	2.01dB	2.09dB	2.18dB	2.26dB
Sealed Volume	1.10 Ft ³ (31.1 l)	1.27 Ft ³ (36.0 l)	1.50 Ft ³ (42.4 l)	1.81 Ft ³ (51.1 l)	2.24 Ft ³ (63.5 l)
Vented Volume	2.70 Ft ³ (76.4 l)	2.70 Ft ³ (76.4 l)	2.70 Ft ³ (76.4 l)	2.70 Ft ³ (76.4 l)	2.70 Ft ³ (76.4 l)
Driver Volume	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)
Vent Volume	.15 Ft ³ (4.2 l)	.23 Ft ³ (6.6 l)	.10 Ft ³ (2.8 l)	.16 Ft ³ (4.4 l)	.23 Ft ³ (6.5 l)
Excursion Limited SPL	124dB	123dB	121dB	120dB	119dB
Excursion Limited Power	250 Watts	250 Watts	250 Watts	250 Watts	246 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	5.66 Ft ³ (160.3 l)	5.93 Ft ³ (167.9 l)	6.17 Ft ³ (174.7 l)	6.61 Ft ³ (187.2 l)	7.26 Ft ³ (205.6 l)
Bandpass	51 - 108	48 - 103	42 - 98	37 - 94	34 - 89
Bandpass Gain	9.2dB	8.1dB	6.9dB	5.6dB	4.1dB
Vent Dimensions	(6)4"x1.25"	(6)4"x2.25"	(4)4"x1.5"	(4)4"x2.75"	(4)4"x4.75"
Tuning Frequency	76 Hz	71 Hz	66 Hz	60 Hz	55 Hz
Ripple	.92dB	.97dB	1.01dB	1.07dB	1.12dB
Sealed Volume	1.32 Ft ³ (37.3 l)	1.54 Ft ³ (43.6 l)	1.83 Ft ³ (51.8 l)	2.23 Ft ³ (63.2 l)	2.82 Ft ³ (79.7 l)
Vented Volume	4.22 Ft ³ (119.4 l)	4.22 Ft ³ (119.4 l)	4.22 Ft ³ (119.4 l)	4.22 Ft ³ (119.4 l)	4.22 Ft ³ (119.4 l)
Driver Volume	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)	.10 Ft ³ (2.9 l)
Vent Volume	.02 Ft ³ (0.7 l)	.07 Ft ³ (2.1 l)	.02 Ft ³ (0.7 l)	.07 Ft ³ (1.9 l)	.13 Ft ³ (3.7 l)
Excursion Limited SPL	124dB	123dB	122dB	121dB	119dB
Excursion Limited Power	250 Watts	250 Watts	250 Watts	250 Watts	212 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.