



**T4158A Technical Data Report**  
**Thunder 4000A 15" 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**

<b>Free Air Resonance</b> - Resonancia de atmósfera libre - Fréquence de résonance - Free Air-Resonanz	<b>Fs</b>	<b>26.5 Hz</b>
<b>Volume Acoustic Suspension</b> - Volumen de suspensión acústica - Volume équivalent à l'élasticité de la suspension - Äquivalenzvolumen	<b>Vas</b>	<b>10.31 Ft^3 (292.0 l)</b>
<b>Total Q</b> - Q total - Coefficient de surtension total - Gesamtgüte	<b>Qts</b>	<b>.60</b>
<b>Electrical Q</b> - Q eléctrica - Coefficient de surtension électrique - Elektrische Güte	<b>Qes</b>	<b>.67</b>
<b>Mechanical Q</b> - Q mecánica - Coefficient de surtension mécanique - Mechanische Güte	<b>Qms</b>	<b>5.63</b>
<b>DC Resistance</b> - Resistencia de CC - Résistance de la bobine au courant continu - Gleichstromwiderstand	<b>Re</b>	<b>5.93 Ohm</b>
<b>Linear Excursion (One Way)</b> - Excursión lineal (unidireccional) - Excursion maximum (dans un sens) - Lineare Auslenkung (eine Richtung)	<b>Xmax</b>	<b>.37" (9.4 mm)</b>
<b>Effective Piston Diameter</b> - Diámetro efectivo del pistón - Diamètre de la membrane - Effektiver Kolbendurchmesser	<b>D</b>	<b>12.969" (.3294 m)</b>
<b>RMS Power Handling</b> - Potencia máxima efectiva - Puissance RMS - Nennbelastbarkeits-Effektivwert	<b>RMS</b>	<b>250 Watts</b>
<b>Recommended Amplifier Power</b> - Potencia de amplificación recomendada - Puissance recommandée - Empfohlene Verstärkerleistung	<b>RMS</b>	<b>50-250 Watts</b>
<b>Sensitivity 1W/1m</b> - Sensibilidad - Efficacité 1W/1m - Empfindlichkeit	<b>SPLo</b>	<b>92.2 dB</b>
<b>Reference Efficiency</b> - Eficiencia de referencia - Efficacité de référence - Bezugswirkungsgrad	<b>No</b>	<b>0.77%</b>
<b>Frequency Response</b> - Respuesta de frecuencia - Réponse en fréquence - Frequenzgang		<b>28 - 150Hz</b>
<b>Voice Coil Inductance</b> - Inductancia de la bobina móvil - Inductance de la bobine mobile - Schwingspuleninduktivität	<b>Le</b>	<b>2.9 mH</b>
<b>Gap Height</b> - Altura del espacio - Hauteur de l'entrefer - Abstandshöhe		<b>.314" (8.0 mm)</b>
<b>Voice Coil Height</b> - Altura de la bobina móvil - Hauteur de la bobine - Schwingspulenhöhe		<b>.955" (24.3 mm)</b>
<b>Voice Coil Diameter</b> - Diámetro del Bobina móvil - Diamètre de la bobine - Schwingspuledurchmesser		<b>2.0" (50.8 mm)</b>
<b>Magnet Weight</b> - Imán - Poids de la structure magnétique - Magnet		<b>37 oz (1049 g)</b>
<b>Motor Force</b> - Fuerza motriz - Facteur force - Schwingkraft	<b>BL</b>	<b>13.58 Tm</b>
<b>Compliance</b> - Cumplimiento - Compliance - Compliance	<b>Cms</b>	<b>.286 mm/N</b>
<b>Total Moving Mass</b> - Masa total en movimiento - Masse totale en mouvement - Gesamte bewegte Masse	<b>Mms</b>	<b>125.8 g</b>
<b>Moving Mass of Driver</b> - Masa en movimiento del altavoz - Poids de la membrane - Bewegte Masse des Subwoofers	<b>Mmd</b>	<b>111.5 g</b>
<b>Suspension Losses</b> - Pérdidas de suspensión - Pertes dans la suspension - Aufhängungsverlust	<b>Rms</b>	<b>3.72</b>
<b>Effective Surface Area</b> - Área superficial efectiva - Surface de la membrane - Wirksame Oberfläche	<b>Sd</b>	<b>132.1 in^2 (.0852m^2)</b>
<b>Mounting Diameter</b> - Diámetro de montaje - Diamètre de montage - Einbaudurchmesser		<b>13 13/16" (350.8 mm)</b>
<b>Overall Diameter</b> - Diámetro total - Diamètre extérieur - Gesamtdurchmesser		<b>15 3/16" (385.8 mm)</b>
<b>Mounting Depth</b> - Profundidad de montaje - Profondeur de montage - Einbautiefe		<b>6 5/8" (168.3 mm)</b>
<b>Overall Depth</b> - Profundidad total - Profondeur totale - Gesamttiefe		<b>7 1/16" (179.4 mm)</b>
<b>Speaker Displacement (Inside Box)</b> - Desplazamiento del altavoz (caja interior) - Volume occupé par le haut-parleur (montage intérieur) - Lautsprecherverdrängung (im Gehäuse)		<b>285in^2 (4.7 l)</b>
<b>Speaker Displacement (Outside Box)</b> - Desplazamiento del altavoz (caja exterior) - Volume occupé par le haut-parleur (montage extérieur) - Lautsprecherverdrängung (außerhalb des Gehäuses)		<b>175in^2 (2.9 l)</b>

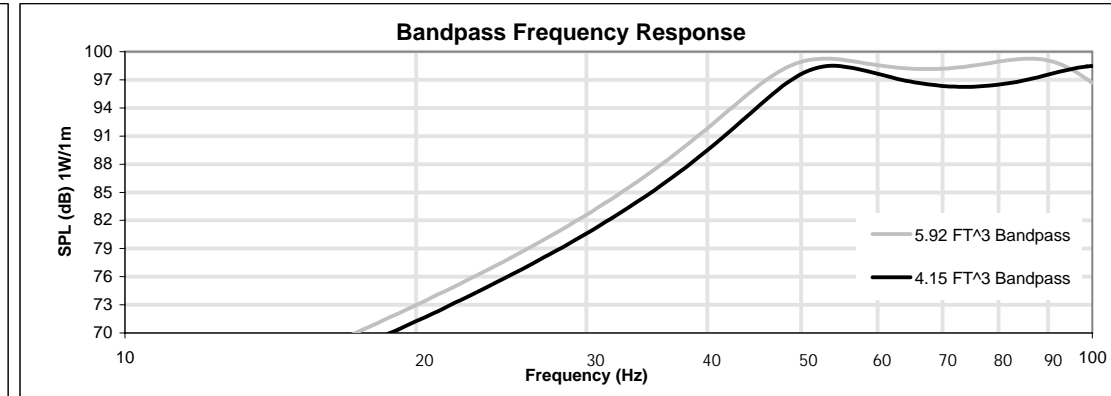
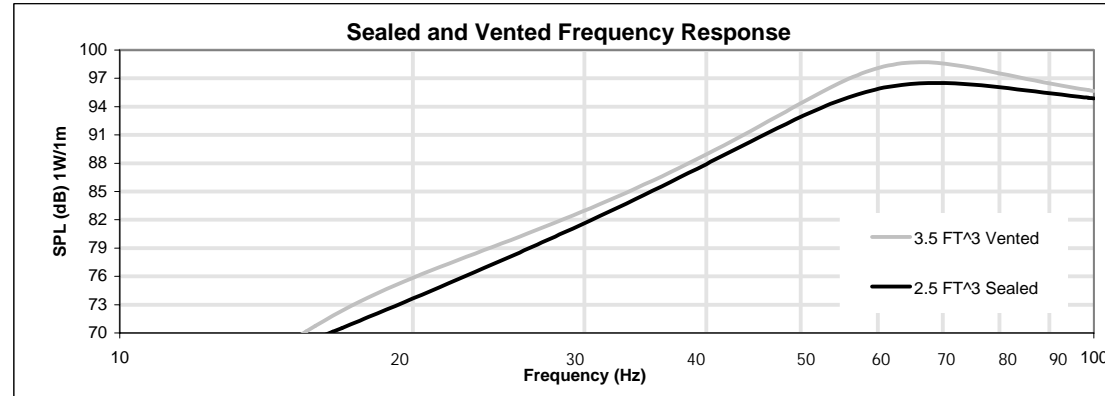
\*Dual voice coil models measured with coils in parallel

21A5340



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Thunder 4000A 15" 8 Ohm Subwoofer



#### Sealed Enclosures - Gabinetes Sellados - Caissons Clos - Geschlossene Gehäuse

Enclosure Volume	2.00 Ft <sup>3</sup> (56.6 l)	2.25 Ft <sup>3</sup> (63.7 l)	2.50 Ft <sup>3</sup> (70.8 l)	2.75 Ft <sup>3</sup> (77.9 l)	3.00 Ft <sup>3</sup> (85.0 l)
F3	53 Hz	50 Hz	46 Hz	44 Hz	44 Hz
Ripple	1.58dB	1.63dB	1.64dB	1.61dB	1.57dB
Qtc	1.53	1.45	1.39	1.33	1.29
Net Volume	1.90 Ft <sup>3</sup> (53.8 l)	2.15 Ft <sup>3</sup> (60.9 l)	2.40 Ft <sup>3</sup> (67.9 l)	2.65 Ft <sup>3</sup> (75.0 l)	2.90 Ft <sup>3</sup> (82.1 l)
Driver Volume	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)
Excursion Limited SPL	120dB	120dB	119dB	119dB	119dB
Excursion Limited Power	250 Watts	250 Watts	250 Watts	250 Watts	250 Watts

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

Enclosure Volume	3.00 Ft <sup>3</sup> (85.0 l)	3.25 Ft <sup>3</sup> (92.0 l)	3.50 Ft <sup>3</sup> (99.1 l)	3.75 Ft <sup>3</sup> (106.2 l)	4.00 Ft <sup>3</sup> (113.3 l)
Vent Dimensions	(2)4"x14"	(2)4"x12"	(2)4"x11"	(2)4"x11"	(2)4"x14"
F3	49 Hz	47 Hz	45 Hz	43 Hz	42 Hz
Tuning Frequency	37 Hz	38 Hz	37 Hz	36 Hz	32 Hz
Ripple	2.68dB	2.91dB	3.06dB	3.09dB	2.82dB
Net Volume	2.68 Ft <sup>3</sup> (75.9 l)	2.96 Ft <sup>3</sup> (83.9 l)	3.23 Ft <sup>3</sup> (91.5 l)	3.48 Ft <sup>3</sup> (98.6 l)	3.68 Ft <sup>3</sup> (104.3 l)
Driver Volume	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)
Vent Volume	.22 Ft <sup>3</sup> (6.2 l)	.18 Ft <sup>3</sup> (5.2 l)	.17 Ft <sup>3</sup> (4.8 l)	.17 Ft <sup>3</sup> (4.8 l)	.22 Ft <sup>3</sup> (6.2 l)
Excursion Limited SPL	122dB	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	3.80 Ft <sup>3</sup> (107.6 l)	4.06 Ft <sup>3</sup> (115.0 l)	4.15 Ft <sup>3</sup> (117.5 l)	4.52 Ft <sup>3</sup> (128.0 l)	5.04 Ft <sup>3</sup> (142.7 l)
Bandpass	52 - 133	49 - 128	44 - 123	39 - 118	34 - 113
Bandpass Gain	6.2dB	5.1dB	4.0dB	2.6dB	1.2dB
Vent Dimensions	(6)4"x4.5"	(6)4"x6.25"	(4)4"x4.5"	(4)4"x6.25"	(4)4"x8.75"
Tuning Frequency	85 Hz	79 Hz	74 Hz	68 Hz	62 Hz
Ripple	2.09dB	2.16dB	2.23dB	2.31dB	2.39dB
Sealed Volume	1.12 Ft <sup>3</sup> (31.7 l)	1.30 Ft <sup>3</sup> (36.8 l)	1.53 Ft <sup>3</sup> (43.4 l)	1.84 Ft <sup>3</sup> (52.2 l)	2.29 Ft <sup>3</sup> (64.8 l)
Vented Volume	2.39 Ft <sup>3</sup> (67.7 l)	2.39 Ft <sup>3</sup> (67.7 l)	2.39 Ft <sup>3</sup> (67.7 l)	2.39 Ft <sup>3</sup> (67.7 l)	2.39 Ft <sup>3</sup> (67.7 l)
Driver Volume	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)
Vent Volume	.18 Ft <sup>3</sup> (5.2 l)	.27 Ft <sup>3</sup> (7.7 l)	.12 Ft <sup>3</sup> (3.5 l)	.18 Ft <sup>3</sup> (5.1 l)	.26 Ft <sup>3</sup> (7.4 l)
Excursion Limited SPL	123dB	122dB	121dB	120dB	118dB
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	5.24 Ft <sup>3</sup> (148.4 l)	5.53 Ft <sup>3</sup> (156.6 l)	5.92 Ft <sup>3</sup> (167.7 l)	6.23 Ft <sup>3</sup> (176.4 l)	6.89 Ft <sup>3</sup> (195.1 l)
Bandpass	53 - 114	48 - 109	42 - 104	37 - 99	32 - 94
Bandpass Gain	8.1dB	7.0dB	5.8dB	4.5dB	3.0dB
Vent Dimensions	(6)4"x1.75"	(6)4"x3"	(6)4"x4.75"	(4)4"x3.5"	(4)4"x5.25"
Tuning Frequency	78 Hz	73 Hz	68 Hz	62 Hz	57 Hz
Ripple	1.02dB	1.07dB	1.11dB	1.17dB	1.22dB
Sealed Volume	1.35 Ft <sup>3</sup> (38.4 l)	1.58 Ft <sup>3</sup> (44.8 l)	1.88 Ft <sup>3</sup> (53.3 l)	2.30 Ft <sup>3</sup> (65.1 l)	2.90 Ft <sup>3</sup> (82.2 l)
Vented Volume	3.74 Ft <sup>3</sup> (105.8 l)	3.74 Ft <sup>3</sup> (105.8 l)	3.74 Ft <sup>3</sup> (105.8 l)	3.74 Ft <sup>3</sup> (105.8 l)	3.74 Ft <sup>3</sup> (105.8 l)
Driver Volume	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)	.10 Ft <sup>3</sup> (2.9 l)
Vent Volume	.05 Ft <sup>3</sup> (1.4 l)	.11 Ft <sup>3</sup> (3.1 l)	.20 Ft <sup>3</sup> (5.6 l)	.09 Ft <sup>3</sup> (2.6 l)	.15 Ft <sup>3</sup> (4.2 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](http://www.mtx.com).

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