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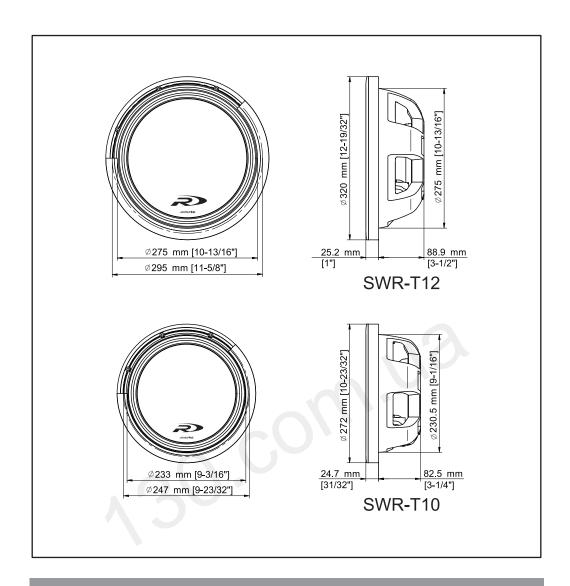
## TYPE-R THIN SUBWOOFER HAUT-PARLEUR D'EXTRÊMES GRAVES TYPE-R APPLICATION GUIDE GUIDE D' APPLICATION

SWR-T12

12 Inch Single Voice Coil Subwoofer (4 $\Omega$ ) Haut-parleur d'extrêmes graves à single bobine 12 po (4 $\Omega$ )

SWR-T10

10 Inch Single Voice Coil Subwoofer ( $4\Omega$ ) Haut-parleur d'extrêmes graves à single bobine 10 po ( $4\Omega$ )



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Printed in CHINA

| Caractéristiques et spécifications Caractéristiques |                              | Type-R Thin  |   |  |
|---|------------------------------|--|---|--|
|   |                              | SWR-T10  | SWR-T12   |  |
| Feetures  |                              | 3WH-110  | 3WN-112   |  |
| Taille  |                              | 10 no  | 10 no   |  |
|   |                              | 10 po  | 12 po<br>600W/1800W   |  |
| Puissance admissible (efficace/de                   | e crete)                     | 600W/1800W   |   |  |
| Plage de puissance (efficace)                       |                              | 300W-600W  | 300W-600W   |  |
| Réponse en fréquence (Hz)                           |                              | 28H-200Hz  | 26H-200Hz   |  |
| Membrane  | Matériau                     | Alumi  | inum  |  |
|   | Conception                   | Parabolique haute résistance   | avec transfert de force   |  |
| Suspension  | Matériau                     | Santoprene MD moulé par injection  |   |  |
|   | Conception                   | Multi-suspension à amplitude élevée (brevet en instance)   |   |  |
| Centreur  | Matériau                     | Elastomer en thermoplastique   |   |  |
|   | Conception                   | Moulé avec renforts intégrés (brevet en instance)  |   |  |
| Bobine  | Matériau                     | Fil de bobine en spirale TIL-P à haute résistance en température (200°C)                         |   |  |
|   | Conception                   | Bobine 100mm à simple couche   |   |  |
| Moteur  | Géométrie de pièce polaire   | Double coté à courbes rayonnées (brevet no 6,639,993) avec évent traversant (brevet en instance) |   |  |
| Woted   |                              |  |   |  |
|   | Configuration                | Système de régulation de la température par gestion du flux d'air (brevet en instance)           |   |  |
|   |                              | Neodym   | ne 35SH   |  |
|   |                              | Interne  |   |  |
| Bâti  | Matériau                     | Aluminiu   | m moulé   |  |
|   | Conception                   | Event Radial avec système de régulation thermique (brevet en instance)                           |   |  |
| Bornes  | Répartition                  | Un   | Un côté   |  |
|   | Conception                   | Bornier ren  | Bornier renforcé (8ga)  |  |
| Fils conducteurs                                    | Conception                   | Intégré  |   |  |
| Joint d'étanchéité                                  | Conception                   |  | Système de joint invisible et fixations pour grilles intégrées (brevet en instance) |  |
|   | Солоорион                    | Cyclema do joint inflicial of internation per  | g.maa mag, coo (ararar an matama)   |  |
| Enceinte Profondeur de montage                      |                              | 83 mm (3.25P po)   | 89 mm (3.5po)   |  |
|   | ovent                        |  |   |  |
| Diamètre de montage - montage avant                 |                              | 231 mm (9.1po)   | 275 mm (10.9po)   |  |
| Déplacement - montage avant**                       |                              | 0.070 pi <sup>3</sup>  | 0.080 pi <sup>3</sup>   |  |
| Volume ajouté - montage inversé**                   |                              | 0.040 pi <sup>3</sup>  | 0.050 pi <sup>3</sup>   |  |
| Types d'enceintes recommandés                       |                              | Sealed,  | Vented  |  |
| Volume d'enceinte close (brut)                      |                              | 0.25 <b>-</b> 0.5 pi <sup>3</sup>  | 0.4-0.75 pi <sup>3</sup>  |  |
|   | Dimensions extérieures       | 20po x 12.5po 5po  | 24po x 15po x5.25po   |  |
| Encolote along posturals                            | Volume intérieur brut        | 0.42 pi <sup>3</sup>   | 0.68pi <sup>3</sup>   |  |
| Enceinte close optimale                             | Volume intérieur net***      | 0.35 pi <sup>3</sup>   | 0.60 pi <sup>3</sup>  |  |
|   | F3, Qtc                      | 49 Hz, 0.80  | 45 Hz, 0.95   |  |
| Volume d'enceinte à évent (brut)                    |                              | 0.5-0.75 pi <sup>3</sup>   | 1.0-1.5 pi <sup>3</sup>   |  |
|   | Dimensions extérieures       | 28po x 13.5po x 5.125po  | 32po x 21po x 5.25po  |  |
|   | Volume intérieur brut        | 0.75 pi <sup>3</sup>   | 1.26 pi <sup>3</sup>  |  |
|   |                              |  |   |  |
|   | Aire de l'évent (dimensions) | 7.25 po² (3.625po x 2po)   | 12.5 po <sup>2</sup> (3.625o x 3.5po)   |  |
| Enceinte à évent optimale                           | Longueur de l'évent          | 24.5po   | 28.75po   |  |
|   | Déplacement de l'évent       | 0.15 pi <sup>3</sup>   | 0.26 pi <sup>3</sup>  |  |
|   | Volume intérieur net (Vb)*** | 0.6 pi <sup>3</sup>  | 1.0 pi <sup>3</sup>   |  |
|   | F3, crête, Fb                | 29Hz, 4.2dB, 35Hz  | 27Hz, 5.2dB, 33Hz   |  |
| Paramètres électromécanie                           | ques#                        |  |   |  |
| Impédance nominale                                  |                              | 4Ω   | $4\Omega$   |  |
| Réponse en fréquence                                |                              | 28 - 200Hz   | 26 - 200Hz  |  |
| Sensibilité (NPA @ 1 W / 1 m)*                      |                              | 83dB   | 84dB  |  |
| Résistance CC de la bobine (Re)                     |                              | 3.85 Ω   | 3.85 Ω  |  |
| Inductance (Le) 1 kHz / 20 kHz                      |                              | 3.22 mH / 0.93 mH  | 3.10 mH / 0.91 mH   |  |
| Résonance à l'air libre (Fs)                        |                              | 32.5Hz   | 3.10 HH7 0.91 HH<br>32Hz  |  |
| Raideur équivalente (Vas)                           |                              |  |   |  |
|   |                              | 20L (0.7 ft <sup>3</sup> )   | 33L (1.2 ft <sup>3</sup> )  |  |
| Q mécanique (Qms)                                   |                              | 6.87   | 7.15  |  |
| Q électrique (Qes)                                  |                              | 0.58   | 0.75  |  |
| Q total (Qts)                                       |                              | 0.53   | 0.67  |  |
| Déplacement linéaire [(Hvc-Hag)/2)], un sens (Xmax) |                              | 15 mm  | 15 mm   |  |
| Déplacement mécanique, crête à crête                |                              | 53 mm  | 56 mm   |  |
| Hauteur de l'écartement (Hag)                       |                              | 28 mm  | 28 mm   |  |
| Hauteur de la bobine (Hvc)                          |                              | 15 mm  | 15 mm   |  |
| Surface du diaphragme (Sd)                          |                              | 346 cm <sup>2</sup>  | 490 cm <sup>2</sup>   |  |
| Diamètre de la bobine                               |                              | 100 mm (4.0")  | 100 mm (4.0")   |  |
|   |                              |  |   |  |
| Poids de l'aimant                                   |                              | 20 oz  | 20 oz   |  |

Notes:: Remarque : Les spécifications peuvent changer sans préavis.

<sup>\*</sup> Ne pas utiliser cette spécification souvent mal comprise comme référence pour la puissance du haut-parleur d'extrêmes graves

<sup>\*\*</sup> Panneau de 0,75 po (19 mm) d'épaisseur, ouverture correspondant environ au diamètre intérieur du joint d'étanchéité.

<sup>\*\*\*</sup> Panneau de 0,75 po (19 mm) d'épaisseur de material de clôture.

| SUB-NOTE   Features   | Subwoofer Features and Specifications       |  | Type-R Thin   |                                      |  |
|---|---|--|---|--------------------------------------|--|
| Protect   Pro   |   |  |   |                                      |  |
| Proceed Flanger (PMT)   Proceed Planger (PMT)   Proceeding Planger (PMT)   Pro   | Features                                    |  | 21111111  | J                                    |  |
| Proces Floor (PROS)   | Size  |  | 10"   | 12"                                  |  |
| Power Fine (PAISE)  | Power Handling (RMS/peak)                   |  | 600W/1800W  | 600W/1800W                           |  |
| Deprison  |   |  |   | 300W-600W                            |  |
| Deprison  |   |  | 28H-200Hz   | 26H-200Hz                            |  |
| Survival  |   | Material   |   |                                      |  |
| Surround   Material   Design   Higheston Models Santosparer®   High Amphillus Michael (Past Pending)   High Amphillus Micha   |   | Design   | High-Strenth Parabolic with Vented Force Transfer Assembly                |                                      |  |
| Design  | Surround                                    | Material   |   |                                      |  |
| Material   Design   |   |  |   |                                      |  |
| Design  | Spider                                      | + · ·  |   |                                      |  |
| Vicio Gol   |   | H  | ,   |                                      |  |
| Design  | Voice Coil                                  | <del>                                     </del> |   |                                      |  |
| Mote Structure   Page Geometry   Configuration   Configurat   |   |  | <u> </u>  |                                      |  |
| Configuration   | Motor Structure                             |  |   |                                      |  |
| Material   Medical   Medical   Necdymium 38SH   | INIOTOL STRUCTURE                           | <u> </u>   |   |                                      |  |
| Prame   | Magnet                                      | h  |   |                                      |  |
| Persine   Material   Design   | magnet                                      |  |   |                                      |  |
| Direct-Couple Radial Vented Shorting Sleeve and Thermal Management System (Patent Pending)   Terminate   Layout   One Sided   |   | + · ·  |   |                                      |  |
| Terminate   Layout   Design   Hoavy Duy 8gu. Insert Block   | Frame                                       |  |   |                                      |  |
| Design      |   | <u> </u>   |   |                                      |  |
| Trisel Leads   Design   Design   Concested Mount Gasket System and Integrated, Balanced Spider Lead-Out   Concested Mount Gasket System and Integrated Grill Ready (Patent Pending)   | Terminals                                   | Layout   |   |                                      |  |
| Concealed Mount Gasket System and Integrated Grill Ready (Patent Pending)   |   | Design   | Heavy Duty 8ga. Insert Block  |                                      |  |
| Section   Sec   | Tinsel Leads                                | Design   | Integrated, Balanced Spider Lead-Out                                      |                                      |  |
| Mounting Dipath   Samm (3.25')   Samm (3.05')   | Gasket                                      | Design   | Concealed Mount Gasket System and Integrated Grill Ready (Patent Pending) |                                      |  |
| Mounting Diameter - Front Mount   231 mm (0.1*)   275 mm (10.9*)  | Enclosure Information                       |  |   |                                      |  |
| Displacement - Front Mount (magnet out)**   Added Volume - Reverse Mount (magnet out)**   Added Volume - Reverse Mount (magnet out)**   Sealed Box Volume Range (Gross)   | Mounting Depth                              |  | 83 mm (3.25")   | 89mm (3.5")                          |  |
| Added Volume - Reverse Mourt \super end volume \subset cut)**  Recommended Enclosure Alignm \subset Sealed. Verted \subset Sealed. Verted \subset Sealed Enclosure Alignment \subset Sealed En | Mounting Diameter - Front Mount             |  | 231 mm (9.1")   | 275 mm (10.9")                       |  |
| Recommended Enclosure Alignment   Sealed Not Volume Range (Gross)   | Displacement - Front Mount**                |  | 0.070 ft <sup>3</sup>   | 0.080 ft <sup>3</sup>                |  |
| Sealed Box Volume Range (Gross)   | Added Volume - Reverse Mount (magnet out)** |  | 0.040 ft <sup>3</sup>   | 0.050 ft <sup>3</sup>                |  |
| Description   | Recommended Enclosure Alignr                | nents  | Sealed,   | Vented                               |  |
| Optimum Sealed Box ***         Gross Internal Volume 'Net Internal Volume'*   0.35 ft²   0.60 ft³   0.60 ft³   0.55 ft²   0.60 ft³   0.60 ft³   0.575 ft²   0.50 ft²                                  | Sealed Box Volume Range (Gro                | ss)  | 0.25 <b>-</b> 0.5 ft <sup>3</sup>   | 0.4-0.75 ft <sup>3</sup>             |  |
| Net Internal Volume**   F <sub>3</sub> Q <sub>e</sub>   49 Hz, 0.80   45 Hz, 0.95   |   | External Box Dimensions                          | 20" x 12.5" x 5"  | 24" x 15" x 5.25"                    |  |
| Net Internal Volume   | Ontinuos Contad Day ***                     | Gross Internal Volume                            | 0.42 ft <sup>3</sup>  | 0.68 ft <sup>3</sup>                 |  |
| Vented Box Volume Range (Gross Indemal Volume Range (Gross Internal Volume (Vent Area (dimensions))         0.5-0.75 ft³         1.0-1.50 ft³           Optimum Vented Box ***         Vent Area (dimensions)         0.75 ft³         1.2 ft²           Optimum Vented Box ***         Vent Length (Vent Length)         24.5°         28.25° x 2°)         12.5 ir² (3.625° x 3.5°)           Vent Length (Vent Unity Internal Volume (Vb)****         24.5°         28.75° x 2°)         12.5 ir² (3.625° x 3.5°)           Vent Length (Vent Length (Vent Unity)***         24.5°         28.75° x 2°)         12.5 ir² (3.625° x 3.5°)           Vent Length (Vent Unity)***         24.5°         28.25° x 2°)         12.5 ir² (3.625° x 2°)           Vent Length (Vent Unity)***         24.5°         28.26° x 2°)         12.5 ir² (3.625° x 2°)           Vent Length (Vent Unity)***         24.5°         28.26° x 2°)         12.5 ir² (3.625° x 2°)         2.2 ir² (3.625° x 2°)   | Optimum Sealed Box                          | Net Internal Volume**                            | 0.35 ft <sup>3</sup>  | 0.60 ft <sup>3</sup>                 |  |
| External Box Dimensions Gross Internal Volume   |   | F <sub>3,</sub> Q <sub>tc</sub>                  | 49 Hz, 0.80   | 45 Hz, 0.95                          |  |
| Optimum Vented Box ***  |   |  | 0.5-0.75 ft <sup>3</sup>  | 1.0-1.50 ft <sup>3</sup>             |  |
| Optimum Vented Box ****         Vent Area (dimensions)         7.25 in² (3.625* x 2*)         12.5 in² (3.625* x 3.5*)           Vent Length         24.5*         28.75*           Vent Displacement         0.6 ft³         0.26 ft³           Nominal Impedance         39Hz, 4.2dB, 35Hz         27Hz, 5.2dB, 33Hz           Electro-Mechanical Parameters*           Nominal Impedance           Frequency Response           Sensitivity (SPL@1W/1m)*         83dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5 Hz         32.4 Hz           Guivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft³)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Ots)         0.53         0.67           Linear Excursion (Hvc-Hag)/2), One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         33 mm         28 mm           Gap Height (Hag)         28 mm         28 mm           Co  |   | External Box Dimensions                          | 28" x 13.5" x 5.125"  | 32" x 21" x 5.25"                    |  |
| Optimum Vented Box ***         Vent Length Vent Displacement Not Internal Volume (V <sub>b</sub> )****         24.5°         28.75°           Vent Displacement Not Internal Volume (V <sub>b</sub> )****         0.6 ft³         0.5 ft³         0.26 ft³           Figure Vent Displacement Not Internal Volume (V <sub>b</sub> )****         29Hz, 4.2dB, 35Hz         27Hz, 5.2dB, 33Hz           Electro-Mechanical Parameters**           Nominal Impedance           4Ω         4Ω         4Ω           Frequency Response         4Ω         4Ω         4Ω           Sensitivity (SPL@1W/1m)*         83dB         84dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH         9.71 mH           Free Air Resonance (Fs)         3.25 Hz         32.2Hz         32.2Hz         32.2 mH / 0.93 mH         3.10 mH / 0.91 mH         9.71 mH         9.72 mH         9.72 mH         9.72 mH         9.72 mH   |   | Gross Internal Volume                            | 0.75 ft <sup>3</sup>  | 1.26 ft <sup>3</sup>                 |  |
| Optimum Vented Box ***         Vent Length Vent Displacement Not Internal Volume (V <sub>b</sub> )****         24.5°         28.75°           Vent Displacement Not Internal Volume (V <sub>b</sub> )****         0.6 ft³         0.5 ft³         0.26 ft³           Figure Vent Displacement Not Internal Volume (V <sub>b</sub> )****         29Hz, 4.2dB, 35Hz         27Hz, 5.2dB, 33Hz           Electro-Mechanical Parameters**           Nominal Impedance           4Ω         4Ω         4Ω           Frequency Response         4Ω         4Ω         4Ω           Sensitivity (SPL@1W/1m)*         83dB         84dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH         9.71 mH           Free Air Resonance (Fs)         3.25 Hz         32.2Hz         32.2Hz         32.2 mH / 0.93 mH         3.10 mH / 0.91 mH         9.71 mH         9.72 mH         9.72 mH         9.72 mH         9.72 mH   |   | Vent Area (dimensions)                           | 7.25 in <sup>2</sup> (3.625" x 2")  | 12.5 in <sup>2</sup> (3.625" x 3.5") |  |
| Vent Displacement         0.15 ft³         0.26 ft³           Net Internal Volume (V₀)***         0.6 ft³         1.0 ft³           F₂, ripple, F₀         29Hz, 4.2dB, 35Hz         27Hz, 5.2dB, 33Hz           Electro-Mechanical Parameters*           Nominal Impedance         4Ω         4Ω           Frequency Response         4Ω         4Ω           Sensitivity (SPL@1W/Im)*         83dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         32.5Hz         32Hz           Mechanical Q (Oms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (xls)         0.53         0.67           Linear Excursion ((Hvc-Hag)/2)), One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         28 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Coil Height (Hvc)         15 mm         15 mm           Coil Height  | Optimum Vented Box ***                      | Vent Length                                      |   |                                      |  |
| Net Internal Volume (V <sub>b</sub> )***         0.6 ft³         1.0 ft³           F <sub>0</sub> , ripple, F <sub>b</sub> 29Hz, 4.2dB, 35Hz         27Hz, 5.2dB, 33Hz           Electro-Mechanical Parameters "           Nominal Impedance         4Ω         4Ω           Frequency Response         4Ω         4Ω           Sensitivity (SPL@1W/Im)*         83dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1HHz/20Hz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         32.5Hz         32Hz           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Ots)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         28 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Coil Height (Hvc)         15 mm         15 mm           Coil Height (Hvc)         10 mm (4.0")         100 mm (4.0   |   |  | 0.15 ft <sup>3</sup>  | 0.26 ft <sup>3</sup>                 |  |
| F <sub>3</sub> , ripple, F <sub>b</sub>   29Hz, 4.2dB, 35Hz   27Hz, 5.2dB, 33Hz   |   |  |   |                                      |  |
| Electro-Mechanical Parameters **         4Ω         4Ω           Nominal Impedance         4Ω         4Ω           Frequency Response         28 - 200Hz         26 - 200Hz           Sensitivity (SPL@1W/1m)*         83dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/2OkHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5 Hz         32Hz           Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft³)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   |   |  |   |                                      |  |
| Nominal Impedance         4Ω         4Ω           Frequency Response         28 - 200Hz         26 - 200Hz           Sensitivity (SPL@1W/1m)*         83dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft³)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   | Electro-Mechanical Paran                    |  |   |                                      |  |
| Frequency Response         28 - 200Hz         26 - 200Hz           Sensitivity (SPL@1W/1m)*         83dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft³)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   |   |  | 4Ω  | 40                                   |  |
| Sensitivity (SPL@1W/1m)*         83dB         84dB           D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft³)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")  | · '   |  |   |                                      |  |
| D.C Coil Resistance (Re)         3.85 Ω         3.85 Ω           Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft²)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvo-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvo)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   |   |  |   |                                      |  |
| Inductance (Le) 1kHz/20kHz         3.22 mH / 0.93 mH         3.10 mH / 0.91 mH           Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft²)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")  |   |  |   |                                      |  |
| Free Air Resonance (Fs)         32.5Hz         32Hz           Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft²)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   | <u> </u>                                    |  |   |                                      |  |
| Equivalent Stiffness (Vas)         20L (0.7 ft³)         33L (1.2 ft³)           Mechanical Q (Qms)         6.87         7.15           Electrical Q (Qes)         0.58         0.75           Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   |   |  |   |                                      |  |
| Mechanical Q (Qms)       6.87       7.15         Electrical Q (Qes)       0.58       0.75         Total Q (Qts)       0.53       0.67         Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)       15 mm       15 mm         Mechanical Excursion, Peak-to-Peak       53 mm       56 mm         Gap Height (Hag)       28 mm       28 mm         Coil Height (Hvc)       15 mm       15 mm         Cone Area (Sd)       346 cm²       490 cm²         Voice Coil Diameter       100 mm (4.0")       100 mm (4.0")  |   |  |   |                                      |  |
| Electrical Q (Qes)       0.58       0.75         Total Q (Qts)       0.53       0.67         Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)       15 mm       15 mm         Mechanical Excursion, Peak-to-Peak       53 mm       56 mm         Gap Height (Hag)       28 mm       28 mm         Coil Height (Hvc)       15 mm       15 mm         Cone Area (Sd)       346 cm²       490 cm²         Voice Coil Diameter       100 mm (4.0")       100 mm (4.0")   |   |  | · , ,   |                                      |  |
| Total Q (Qts)         0.53         0.67           Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)         15 mm         15 mm           Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")  |   |  |   |                                      |  |
| Linear Excursion [(Hvc-Hag)/2)], One-Way (Xmax)       15 mm       15 mm         Mechanical Excursion, Peak-to-Peak       53 mm       56 mm         Gap Height (Hag)       28 mm       28 mm         Coil Height (Hvc)       15 mm       15 mm         Cone Area (Sd)       346 cm²       490 cm²         Voice Coil Diameter       100 mm (4.0")       100 mm (4.0")  |   |  |   |                                      |  |
| Mechanical Excursion, Peak-to-Peak         53 mm         56 mm           Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")  |   |  |   |                                      |  |
| Gap Height (Hag)         28 mm         28 mm           Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   |   |  |   |                                      |  |
| Coil Height (Hvc)         15 mm         15 mm           Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")  |   |  |   |                                      |  |
| Cone Area (Sd)         346 cm²         490 cm²           Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")  |   |  |   |                                      |  |
| Voice Coil Diameter         100 mm (4.0")         100 mm (4.0")   |   |  |   | _                                    |  |
|   |   |  |   | 490 cm²                              |  |
| Magnet Weight 20 oz 20 oz   | Voice Coil Diameter                         |  | 100 mm (4.0")   | 100 mm (4.0")                        |  |
|   | Magnet Weight                               |  | 20 oz   | 20 oz                                |  |

## Note: All specifications are subject to change without notice

 $<sup>^{\</sup>star}$  This commonly misunderstood specification should not be used as a reference for subwoofer output capability.

<sup>\*\*</sup> Based upon 3/4" (19mm) baffle thickness, with opening cut approximately to gasket inner diameter.

<sup>\*\*\*</sup> Based upon 3/4" (19mm) enclosure material thickness.

