



## XS12s Parameters / Specifications

### Key Features

- 2" High Temperature (Aluminum Former) Voice Coil w/ 10mm Xmax
- Heavy Duty Motor Structure (Bumped and Vented) w/ 40 oz Magnet
- Power Handling: 350 Watts RMS, 1400 Watts Peak
- Sensitivity (2.0V/1M): 90dB
- Treated Parabolic Paper Fiber Cone
- Nitrile Rubber Surround for Excellent Damping
- Nomex-Reinforced Spiders for Excellent Linearity
- Optimized Magnet System for Deep Bass Performance
- Optimized "Q" for Closed and Ported Enclosures
- Low-Resonance Steel Basket

### Caractéristiques Principales

- 2 "Haute Température (Aluminium Ancien) Voice Coil w / 10mm Xmax
- Structure de Heavy Duty Motor (Bumped et Ventilé) w / 40 Magnet oz
- Puissance: 350 Watts RMS, 1400 Watts crête
- Sensibilité (2.0V / 1M): 90dB
- Traitée Parabolique Paper Fiber Cone
- Surround caoutchouc nitrile pour un excellent amortissement
- Spiders Nomex-renforcés pour une excellente linéarité
- Magnet System Optimisé pour Deep Bass Performance
- Optimisé "Q" pour boîtiers fermés et Ported
- Low-Resonance Panier en acier

### Características Principales

- 2 "Alta Temperatura (ex aluminio) de la bobina de voz w / 10mm Xmax
- Estructura de Altas Prestaciones Motor (Bumped y ventilación) w / 40 oz imán
- Manejo de potencia: 350 vatios RMS, 1400 vatios de potencia máxima
- Sensibilidad (2.0V / 1M): 90dB
- Cono de fibra de papel tratado parabólico
- Caucho de nitrilo Surround para una amortiguación excelente
- Las arañas reforzado con fibra de Nomex para una excelente linealidad
- Imán sistema optimizado para un rendimiento Deep Bass
- Optimizado "Q" de Recintos cerrados y portado
- Bajo Resonancia acero Basket

### Specifications/Caractéristiques/Espificaciones

|                            |                  |
|----------------------------|------------------|
| Power Handling (RMS).....  | 350W             |
| Power Handling (Peak)..... | 1400W            |
| Frequency Response.....    | 25-250Hz         |
| Efficiency.....            | 93dB (1W in car) |
|                            | 90dB (2.0V/1m)   |

|                          |                |
|--------------------------|----------------|
| Voice Coil Diameter..... | 2" (50mm)      |
| Impedance.....           | 4 Ohm          |
| Nom. Diameter.....       | 12" (305mm)    |
| Outer Diameter.....      | 12.48" (317mm) |
| Cutout Diameter.....     | 11.0" (279mm)  |
| Mounting Depth.....      | 5.03" (128mm)  |

### Thiele-Small Parameters/Parámetros/Paramètres

|                    |                     |
|--------------------|---------------------|
| Fs.....            | 28Hz                |
| Qts.....           | 0.452               |
| Qes.....           | 0.512               |
| Qms.....           | 3.90                |
| Vas.....           | 3.95ft <sup>3</sup> |
| BL.....            | 10.85               |
| Revc.....          | 3.2 Ohm             |
| Xmax (linear)..... | +/-10mm/0.40in      |

### Attention

- Use 3/4" MDF
- Use wood glue in joints
- Use screws every 4 inches
- Seal cracks inside box
- Dimensions are external

### Attention

- Utilisez avec MDF de 3/4"
- Appliquez de la colle à bois dans les onglets
- Placez les vis tous 4"
- Bouchez les fissures à l'intérieur de la boîte
- Les dimensions indiquées sont celles à l'extérieur

### Atención

- Use una tabla de MDF de 3/4"
- Use pegamento para madera en las uniones
- Use tornillos cada 4"
- Selle las grietas adentro de la caja
- Dimensiones externas

### Sealed Enclosure

Fill all sealed enclosures loosely (8 oz per cubic foot) with polyester batting or similar material for best bass performance

#### Good

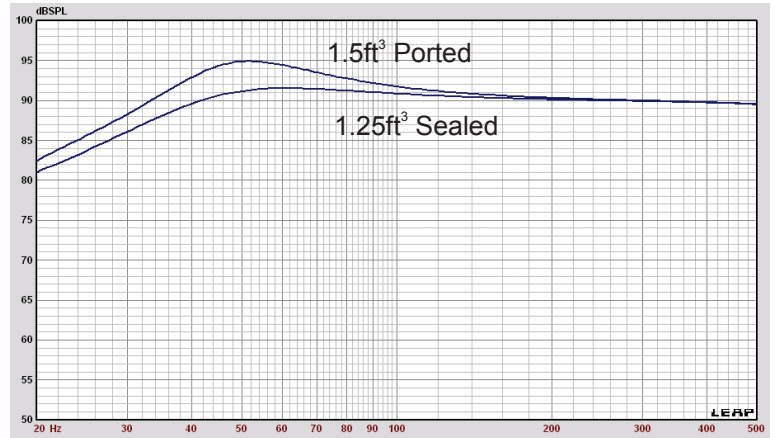
Enclosure Volume (Internal) = 0.75 ft<sup>3</sup> (Vb)  
 Example Dimensions: 14"H x 12.5"W x 12"D  
 F3 = 45Hz, Qtc = 1.25

#### Better

Enclosure Volume (Internal) = 1.00 ft<sup>3</sup> (Vb)  
 Example Dimensions: 14"H x 16"W x 12"D  
 F3 = 42Hz, Qtc = 1.1

#### Best

Enclosure Volume (Internal) = 1.25 ft<sup>3</sup> (Vb)  
 Example Dimensions: 14"H x 19.25"W x 12"D  
 F3 = 39Hz, Qtc = 1.0



### Vented Enclosure

Line four walls of vented enclosures with 2" thick polyester batting or similar material for best bass performance

#### Good

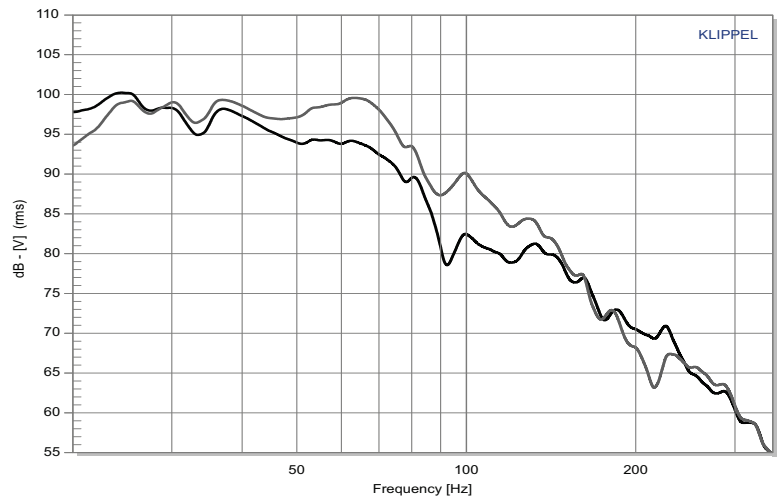
Enclosure Volume (Internal) = 1.0 ft<sup>3</sup> (Vb)  
 Example Dimensions: 14"H x 16.0"W x 12"D  
 Port: 3" Inside Diameter (ID) x 13" Long  
 FB = 35Hz, F3 = 39Hz

#### Better

Enclosure Volume (Internal) = 1.25 ft<sup>3</sup> (Vb)  
 Example Dimensions: 14"H x 19.25"W x 12"D  
 Port: 3" Inside Diameter (ID) x 12.5" Long  
 FB = 32Hz, F3 = 36Hz

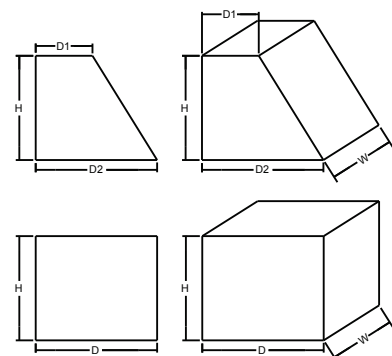
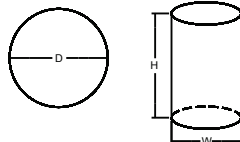
#### Best

Enclosure Volume Internal = 1.50 ft<sup>3</sup> (Vb)  
 Example Dimensions: 14"H x 22.5"W x 12"D  
 Port: 3" Inside Diameter (ID) x 11.5" Long  
 FB = 30Hz, F3 = 33Hz



### Common Math

- Trapezoid Area =  $H \times (D1+D2)/2$
- Trapezoid Volume =  $H \times (D1+D2)/2 \times W$
- Rectangle Area =  $H \times D$
- Rectangular Box =  $H \times W \times D$
- Circle Area =  $0.79 \times D \times D$
- Port Volume =  $0.79 \times D \times D \times H$



### Common Conversions

- Cubic Feet = Cubic Inches / 1728
- Cubic Feet = Liters / 28.3
- Liters = Cubic Feet x 28.3
- Inches = Meters x 2540
- Square Inches = Square Feet / 144

# WARRANTY

## Limited 1 Year Warranty - USA and Canada

**Length of Warranty.** This warranty from Dual Electronics Corporation shall be in effect for a period of 1 year from the date of the first consumer purchase.

**Persons Protected.** This warranty will be enforceable by the original owner during the warranty period so long as proof of date of purchase from an authorized dealer is presented whenever warranty service is required.

**What is Covered.** Except as otherwise specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered: damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product; damage occurring during shipment (claims must be presented to the carrier); any plexiglass included with the product; elimination of car static or other electrical interferences; any product purchased outside USA or Canada, or on which the serial number has been defaced, modified or removed.

### **How You Can Get Service.**

**U.S. Purchasers.** Please telephone Jensen Customer Service at 1-888-921-4088.

**Canadian Purchasers.** The product should be returned to the dealer from whom it was purchased and such dealer either will service or arrange for service of the product. If shipment of the product is required, it should be packed properly. The original dated bill of sale must always be included with the product as proof of warranty coverage.

**What We Will Pay For.** We will pay for all labor and material expenses required to repair the product, but you must pay any labor costs for the removal and/or installation of the product. If the product is shipped for warranty service, you must prepay the initial shipping charges, but Dual Electronics Corporation will pay the return shipping charges if the product is returned to an address inside the USA or Canada.

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