

**\*\*FOR INTERNAL USE ONLY\*\***

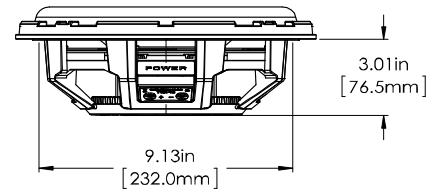
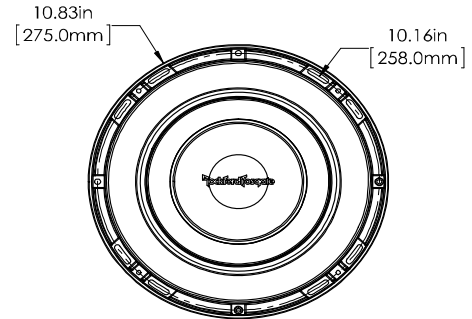
**Model:** T1S2-10  
**Family:** Power  
**Type:** SVC Shallow Subwoofer  
**Size:** 10 Inches

**Power Rating:** 500 Watts (RMS)  
**Impedance:** 2 Ohms Per Coil  
**Freq. Response:** 28 - 250 Hz  
**SPL (1W/1M):** 82.5 dB



**Technical Highlights**

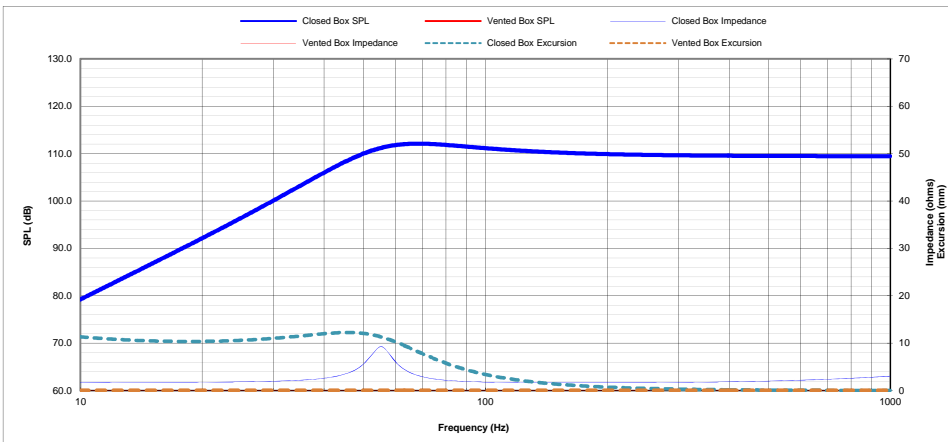
- Carbon Fiber/PMI/Glass Fiber Cone with Aluminum Dustcap
- Injection Molded Foam Surround with VAST™
- Dual Nomex Progressive Spiders with Integrated Lead Wires
- Aluminum Dia Cast Frame with Integrated Heat Sink Fins
- Custom Push Spring Insulated 10 AWG Terminals
- Dual Wound Single 2.5" Voice Coil with Interior and Exterior Windings
- Encapsulating Voice Coil to Former Coupling Technology (Patent Pending)
- Detachable Die Cast Aluminum Trim Ring
- Vented Pole Piece
- High Temp High Energy Neodymium Motor Structure
- Proprietary Split Yoke Pass Thru Motor Technology (Patent Pending)
- Integrated Copper Cap Heat Sinking Shorting Ring (IDHS)
- Optional Grille Available
- Optimized for Sealed Enclosures



**Recommended Applications**

| Enclosure | Volume (Vb) |        | Tuning(Fb) | System | -3dB (F3) | Port Dia. |    | Port Length |    |
|-----------|-------------|--------|------------|--------|-----------|-----------|----|-------------|----|
|           | Liters      | cu.ft. | Hz         | (Qtc)  | Hz        | in.       | cm | in.         | cm |
| Sealed:   | 21.8        | 0.77   | 40.9       | 1.20   | 40.9      | -         | -  | -           | -  |
| Ported:   | -           | -      | -          | -      | -         | -         | -  | -           | -  |

**SPL & Excursion (at 500 Watts) / Impedance (at 1 Watt)**



**Technical Specifications**

|                            |       |       |        |           |
|----------------------------|-------|-------|--------|-----------|
| Voice Coil Diameter:       | 2.50  | 63.50 | inches | mm        |
| Voice Coil Height:         | 1.43  | 36.30 | inches | mm        |
| Voice Coil Layers:         | 4     |       | Layers |           |
| Magnetic Gap Height:       | 0.31  | 8.00  | inches | mm        |
| Linear Excursion, pk-pk:   | 1.11  | 28.30 | inches | mm        |
| Max Mech Excursion, pk-pk: | 2.36  | 60.00 | inches | mm        |
| Magnet Weight:             | 15.10 | 0.43  | oz.    | kg        |
| Woofer Displacement:       | 0.82  | 0.03  | liters | cubic ft. |
| Net Weight:                | 9.58  | 4.35  | lbs.   | kg        |
| Power Rating:              | 500   | 1000  | RMS    | Peak      |

**Thiele-Small Specifications**

|                     | Measured | Published |
|---------------------|----------|-----------|
| Fs (Hz):            | 44.0     | 44.0      |
| Re (Ohms):          | 1.58     | 1.6       |
| Le (mH):            | 0.42     | 0.42      |
| Qts:                | 1.05     | 1.05      |
| Qes:                | 1.17     | 1.17      |
| Qms:                | 9.21     | 9.21      |
| Cms (mm/N):         | 0.07     | 0.07      |
| Vas (L):            | 13.1     | 13.1      |
| Mms (g):            | 185.8    | 185.8     |
| Mmd (g):            | 189.0    | 189.0     |
| Rms (kg/s):         | 5.7      | 5.7       |
| Airload (g):        | -3.2     | -3.2      |
| No (%):             | 0.08     | 0.08      |
| SPL (dB - 1W/1M):   | 82.5     | 83.0      |
| SPL (dB - 2.8V/1M): | 85.5     | 86.0      |
| BL (T*M):           | 8.27     | 8.27      |
| *Xmax10 (mm):       | 14.2     | 15.0      |
| Sd (cm2):           | 356.0    | 356.0     |
| EBP:                | 38       | 38        |
| Krm (mOhms):        | 0.00     | 0.00      |
| Erm:                | 1.22     | 1.22      |
| Kxm (mH):           | 0.00     | 0.00      |
| Exm:                | 0.80     | 0.80      |
| Rem (Ohms):         | 0.00     | 0.00      |

\* All parameters are derived using a laser velocity measurement method and verified with actual measured Mmd and Re. All dual voice coil models are wired in series. Low freq. in Freq Response is derived from 1/2 Oct. below driver Fs. Xmax<sub>10</sub> represents actual effective excursion at <10% THD.