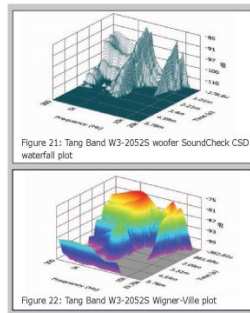


Linearx Leap 5

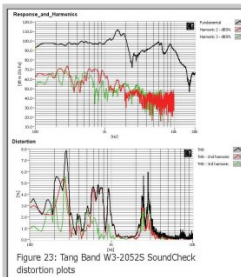


the Klippel analyzer using the subwoofer criteria for BI was XBI at 70% (BI dropping to 70% of its maximum value) equal to 4.6 mm for the prescribed 20% distortion level. For the compliance, crossover at 50% C_{ms} minimum was 4.2 mm (0.8 mm less than the driver's physical X_{ms}). This means that for the W3-2052S, the compliance is the more limiting factor for getting to the 20% distortion level.

Figure 17 shows the W3-2052S's inductance curve $L_e(f)$. Motor inductance will typically increase in the rear direction from the zero rest position and decrease in the forward direction as the voice coil moves out of the gap and has less pole coverage, which is what we see here. However, the inductive change is a minimal 0.15 mH from the rest position to X_{ms} in either direction.

After the Klippel analysis was finished, I mounted the driver in an enclosure with a 5" x 12" baffle area and filled it with foam-damping material. Next, I used the LMS gated sine wave technique to measure the W3-2052S's SPL on- and off-axis. Figure 18 shows the on-axis response measured 300 Hz to 20 kHz at 2.83 V/1 m. Even though the response is pretty ragged, you should still be able to cross this driver up to 800 Hz, if required. Figure 19 shows the on- and off-axis to 45° and confirms this. Finally, Figure 20 shows the two-sample SPL comparison revealing a close match in the relevant operating range.

I used the Listen SoundCheck analyzer to perform time-delay and distortion analysis. I normally dispense with time-delay frequency analysis for subwoofers as the data is not really significant below 100 Hz. However since the W3-2052S could be crossed higher than that, I will include those measurements. With the subwoofer still mounted in a foam damped enclosure with a 8" x 12" baffle, I proceeded to make an impulse measurement with SoundCheck. I imported the result into Listen's SoundMap software, which



was windowed to remove the room reflections. Figure 21 shows the CSD waterfall plot. Figure 22 shows the Wigner-Ville plot.

For the distortion measurements, I set the voltage level with the driver mounted in free air and rigidly attached to a fixture. I used pink noise to increase the voltage until it produced a 1-m SPL of 94 dB (14.4 V), which is my SPL standard for home audio drivers. I made the distortion measurement with the microphone placed near-field (10 cm) with the woofer mounted in the enclosure.

Figure 23 shows the distortion plot. The top graph shows the standard fundamental SPL curve with the second- and third-harmonic curves. The bottom graph shows the second- and third-harmonic curves plus the THD curve with an appropriate X-axis scale.

Overall, the W3-2052S is a uniquely conceived dual-surround and dual-diaphragm driver and a well-performing mini-subwoofer. For more information, visit www.tb-speakers.com. **WC**

Submit Samples to Test Bench

Test Bench is an open forum for OEM driver manufacturers in the industry. All OEMs are invited to submit samples to Voice Coil for inclusion in the Test Bench column.

Driver samples can include any sector of the loudspeaker market, including transducers for home audio, car audio, pro sound, multimedia, or musical instrument applications. Contact Voice Coil Editor Vance Dickason to discuss which drivers are being submitted.

All samples must include any published data on the product, patent information, or any special information to explain the functioning of the transducer. Include details on the materials used to construct the transducer (e.g., cone material, voice coil former material, and voice coil wire type). For woofers and midrange drivers, include the voice coil height, gap height, RMS power handling, and physically measured Mmd (complete cone assembly, including the cone, surround, spider, and voice coil with 50% of the spider, surround, and lead wires removed). Samples should be sent in pairs to:

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