This new series of state-of-the-art subwoofers continue to enhance Peerless' reputation for delivering the highest quality components for bass in the world. Called the XXLS - for "Xpanded Extra Long Stroke" - these new audio transducers add even more excursion to the Peerless XLS line, and completely eliminate distortion.

Go to Architecture Notes

### Specs:

#### Electrical Data
- Nominal impedance: $Z_n = 4 \text{ ohm}$
- Minimum impedance: $Z_{\text{min}} = 3 \text{ ohm}$
- Maximum impedance: $Z_o = 65.7 \text{ ohm}$
- DC resistance: $R_e = 2.6 \text{ ohm}$
- Voice coil inductance: $L_e = 1.6 \text{ mH}$
- Capacitor in series with $x \text{ ohm}$: $C_c = -- \text{ uF}$

#### T-S Parameters
- Resonance Frequency: $f_s = 19.1 \text{ Hz}$
- Mechanical Q factor: $Q_{\text{ms}} = 9.29$
- Electrical Q factor: $Q_{\text{es}} = 0.38$
- Total Q factor: $Q_{\text{ts}} = 0.37$
- Ratio $f_s/Q_{\text{ts}}$: $F = --$
- Force factor: $B_l = 10.3 \text{ Tm}$
- Mechanical resistance: $R_{\text{ms}} = 1.69 \text{ Kg/s}$
- Moving mass: $M_{\text{ms}} = 130.6 \text{ g}$
- Suspension compliance: $C_{\text{ms}} = 0.53 \text{ mm/N}$
- Effective cone diameter: $D = 24.4 \text{ cm}$
- Effective piston area: $S_d = 466 \text{ cm}^2$
- Equivalent volume: $V_{\text{as}} = 159 \text{ ltrs}$
- Sensitivity: $S = 91.2 \text{ dB}$
- Ratio $B_l/\sqrt{R_e}$: $6.4$

#### Power handling
- 100h RMS noise test (IEC): $-- \text{ W}$
- Long-term Max System Power (IEC): $-- \text{ W}$
- Max linear SPL (rms) @ power: $-- \text{ dB/W}$
- Short Term Max power: $-- \text{ W}$

#### Voice Coil and Magnet Parameters
- Voice coil diameter: $51 \text{ mm}$
- Voice coil height: $32.6 \text{ mm}$
- Voice coil layers: $4$
- Height of the gap: $8 \text{ mm}$
- Linear excursion +/-: $13 \text{ mm}$
- Max mech. excursion +/-: $-- \text{ mm}$
- Flux density of gap: $-- \text{ mWb}$
- Total useful flux: $2.3 \text{ mWb}$
- Diameter of magnet: $147 \text{ mm}$
- Height of magnet: $35 \text{ mm}$
- Weight of magnet: $2.2 \text{ Kg}$