Product Description:

This TC family 2 inch 4 ohm full-range driver, with ferrite magnet, paper cone and rubber surround, and steel basket, is designed to be a cost-effective high performance full range driver. The cone utilizes Tymphany-patented PentaCut NRSC cone technology to help dampen and control cone resonances, optimizing the listening experience. The motor contains a copper cap to lower inductance and distortion. The product was designed with television and other compact applications in mind.

Specifications:

- **DC Resistance**: $R_{dc}$ = 3.5 Ω ± 5.0%
- **Maximum Impedance**: $Z_{max}$ = 4.09 Ω ± 7.5%
- **Voice Coil Inductance**: $L_c$ = 0.002 mH
- **Resonant Frequency**: $f_r$ = 175 Hz ± 15.0%
- **Mechanical Q Factor**: $Q_m$ = 4.1
- **Electrical Q Factor**: $Q_e$ = 1.29
- **Total Q Factor**: $Q_T$ = 0.98
- **Ratio $L_c / Q_e$** = 178
- **Energy Bandwidth Product EBP**: $f_s (1/Q_{es})$ = 136
- **Moving Mass**: $M_m$ = 1.22 g
- **Suspension Compliance**: $C_s$ = 677.0 mm/N
- **Effective Cone Diameter**: $D_c$ = 4.4 cm
- **Effective Piston Area**: $A_p$ = 0.02 cm²
- **Equivalent Volume**: $V_e$ = 15.2 cm³
- **Motor Force Factor**: $B_L$ = 1.92 T·m
- **Motor Efficiency Factor**: $\beta$ = 1.04 (T·m²)/Ω
- **Half Space Sensitivity @ 2.83V**: 84.4 dB ±1.0 dB
- **Sensitivity @ 1W/1m**: 81.5 dB ±1.0 dB
- **Rated Noise Power (IEC 268-5 18.1)**: 12 dB/Oct
- **Test Spectrum Bandwidth**: 150Hz - 20kHz

Frequency and Impedance Response: