7 Magnetics

7.1 Transformer (T1) Specification

7.1.1 Electrical Diagram

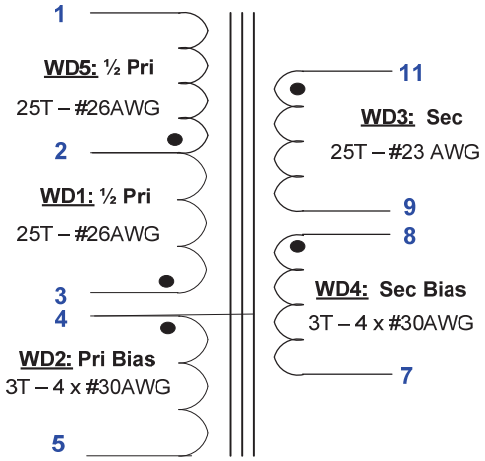

Figure 8 – Transformer Schematic.

7.1.2 Electrical Specifications

Electrical Strength	1 second, 60 Hz, from pins 1-6 to 7-12.	3000 VAC
Primary Inductance	Pins 1-3 all other windings open, measured at 100 kHz, 0.4 V_{RMS}.	673 µH ±10%
Resonant Frequency	Pins 1-3, all other windings open.	1.5 MHz (Min.)
Primary Leakage Inductance	Pins 1-3, with Pins 7-12 shorted, measured at 100 kHz, 0.4 V_{RMS}.	8 µH (Max.)

7.1.3 Material List

Item	Description
[1]	Core Pair PQ26/25: TDK PC44 or equivalent. Gap for A_L of 269 nH/T^2.
[2]	Bobbin: PQ26/25 Vertical, 12 pins, PI Part # 25-00055-00.
[3]	Wire, Magnet Solderable Double Coated, #26 AWG.
[4]	Wire, Magnet Solderable Double Coated, #23 AWG.
[5]	Wire, Magnet, Solderable Double Coated, #30 AWG.
[6]	Tape: Polyester Film, 3M 1350F-1 or Equivalent, 13.5 mm Wide.
[7]	Tape: Polyester Film, 3M 1350F-1 or Equivalent, 10.0 mm Wide.
[8]	Tape: Polyester Web, 3M 44 or Equivalent, 1.5 mm Wide.
[9]	Tape: Copper Foil, 3M 1194 or Equivalent, 8 mm Wide.
[10]	Varnish: Dolph BC-359, or Equivalent.