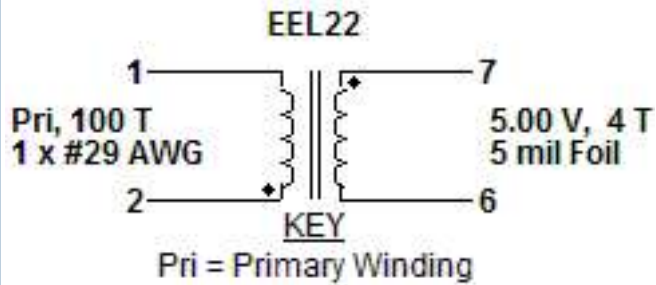
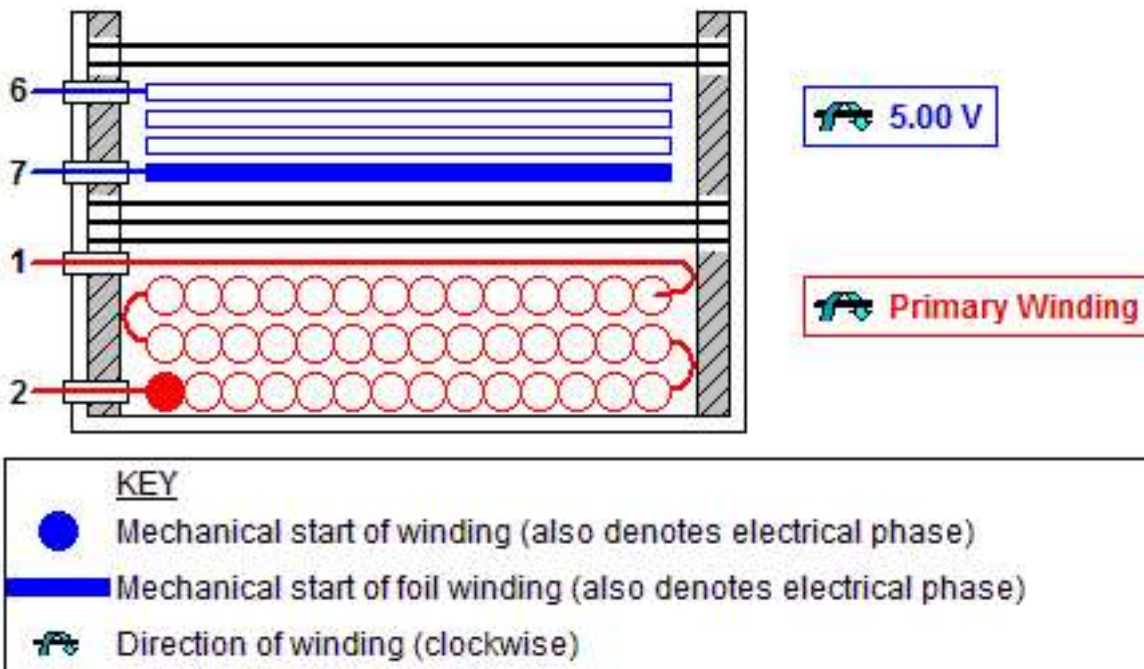


## Electrical Diagram



## Mechanical Diagram



## Winding Instruction

Use 3.20 mm margin (item [3]) on the bottom. Use 3.20 mm margin (item [3]) on the top.

### Primary Winding

Start on pin(s) 2 using item [5] at the start leads and wind 100 turns (x 1 filar) of item [7]. in 3 layer(s) from left to right. At the end of 1st layer, continue to wind the next layer from right to left. At the end of 2nd layer, continue to wind the next layer from left to right. On the final layer, spread the winding evenly across entire bobbin. Finish this winding on pin(s) 1 using item [5] at the finish leads.

Add 3 layers of tape, item [4], for insulation.

### Secondary Winding

Start on pin(s) 7 using item [5] at the start leads and wind 4 turns of item [8]. Wind in same rotational direction as primary winding. Finish this winding on pin(s) 6 using item [5] at the finish leads.

Add 2 layers of tape, item [4], for insulation.

### Core Assembly

Assemble and secure core halves. Item [1].

### Varnish

Dip varnish uniformly in item [6]. Do not vacuum impregnate.

## Materials

Item	Description
[1]	Core: EEL22, NC-2H (Nicera) or Equivalent, gapped for ALG of 79 nH/T <sup>2</sup>
[2]	Bobbin: Generic, 5 pri. + 5 sec.

[3]	Tape: Polyester web 3.20 mm wide
[4]	Barrier Tape: Polyester film [1 mil (25 µm) base thickness], 18.20 mm wide
[5]	Teflon Tubing # 22
[6]	Varnish
[7]	Magnet Wire: 29 AWG, Solderable Double Coated
[8]	Copper Foil: 5 mil thick, 11.80 mm wide, covered with 1 layer of lapped tape. Terminations to foil: 2 x 23 AWG magnet wire

### Electrical Test Specifications

<i>Parameter</i>	<i>Condition</i>	<i>Spec</i>
Electrical Strength, VAC	60 Hz 1 second, from pins 1,2 to pins 6,7.	3000
Nominal Primary Inductance, µH	Measured at 1 V pk-pk, typical switching frequency, between pin 1 to pin 2, with all other Windings open.	869
Tolerance, ±%	Tolerance of Primary Inductance	10.0
Maximum Primary Leakage, µH	Measured between Pin 1 to Pin 2, with all other Windings shorted.	26.08

Although the design of the software considered safety guidelines, it is the user's responsibility to ensure that the user's power supply design meets all applicable safety requirements of user's product.