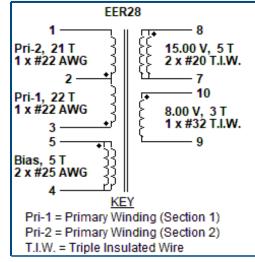
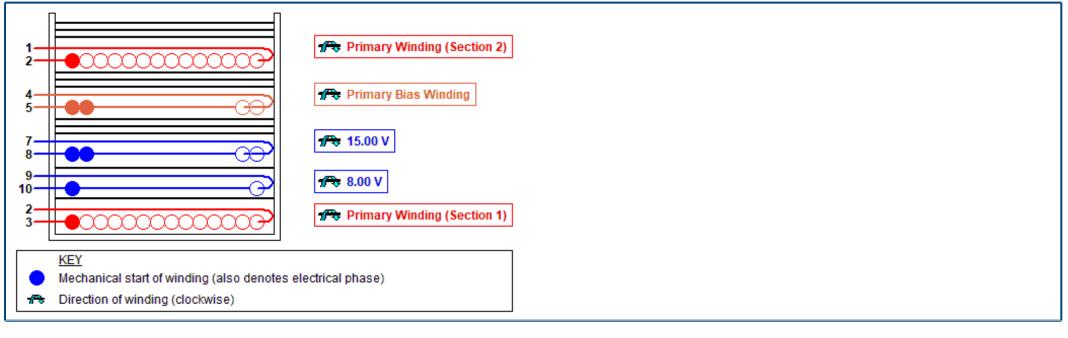
Electrical Diagram



Mechanical Diagram



Winding Instruction

Primary Winding (Section 1)
Start on pin(s) 3 and wind 22 turns (x 1 filar) of item [5]. in 1 layer(s) from left to right. Winding direction is clockwise. On the final layer, spread the winding evenly across entire bobbin. Finish this winding on pin(s) 2.
Add 1 layer of tape, item [3], for insulation.
Secondary Winding
Start on pin(s) 10 and wind 3 turns (x 1 filar) of item [6]. Spread the winding evenly across entire bobbin. Winding direction is clockwise. Finish this winding on pin(s) 9.
Add 1 layer of tape, item [3], for insulation.
Start on pin(s) 8 and wind 5 turns (x 2 filar) of item [7]. Spread the winding evenly across entire bobbin. Winding direction is clockwise. Finish this winding on pin(s) 7.
Add 3 layers of tape, item [3], for insulation.
Primary Bias Winding

power

Start on pin(s) 5 and wind 5 turns (x 2 filar) of item [8]. Winding direction is clockwise. Spread the winding evenly across entire bobbin. Finish this winding on pin(s) 4.
Add 3 layers of tape, item [3], for insulation.
Primary Winding (Section 2)
Start on pin(s) 2 and wind 21 turns (x 1 filar) of item [5]. in 1 layer(s) from left to right. Winding direction is clockwise. On the final layer, spread the winding evenly across entire bobbin. Finish this winding on pin(s) 1.
Add 3 layers of tape, item [3], for insulation.
Core Assembly
Assemble and secure core halves. Item [1].
Varnish
Dip varrish uniformly in item [4]. Do not vacuum impregnate.

Comments

1. Use of a grounded f	flux-band around the core may improve the EMI performance.
2. For non margin wou	und transformers use triple insulated wire for all secondary windings.

Materials

ltem	Description
[1]	Core: EER28, 3F3, gapped for ALG of 271 nH/T ²
[2]	Bobbin: Generic, 6 pri. + 6 sec.
[3]	Barrier Tape: Polyester film [1 mil (25 μm) base thickness], 16.70 mm wide
[4]	Varnish
[5]	Magnet Wire: 22 AWG, Solderable Double Coated
[6]	Triple Insulated Wire: 32 AWG
[7]	Triple Insulated Wire: 20 AWG
[8]	Magnet Wire: 25 AWG, Solderable Double Coated

Electrical Test Specifications

Parameter	Condition	Spec
Electrical Strength, VAC	60 Hz 1 second, from pins 1,2,3,4,5 to pins 7,8,9,10.	3000
Nominal Primary Inductance, µH	Measured at 1 V pk-pk, typical switching frequency, between pin 1 to pin 3, with all other Windings open.	501
Tolerance, ±%	Tolerance of Primary Inductance	5.0
Maximum Primary Leakage, μΗ	Measured between Pin 1 to Pin 3, with all other Windings shorted.	13.15

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.

The products and applications illustrated herein (including circuits external to the products and transformer construction) may be covered by one or more U.S. and foreign patents or potentially by pending U.S. and foreign patent applications assigned to Power Integrations. A complete list of Power Integrations' patents may be found at www.power.com.