### Date: Feb 23, 2015

1. Transformer: 3 out – UCC28600
2. 5V / 1.2A, 24V / 0.3A and 24V / 0.3 A – all isolated from each other.
3. Core: **EE2507, N87 or eqlt, air gap in each limb = 0.20mm (4 mil),** Vertical Bobbin, 10 Pins, No margin tape .
4. W1, 1/2, Primary Winding: **23T, 1 strand x 26 SWG,** **ONE layer**, uniformly wind to cover the bobbin width. **Start: Pin 3, Finish: Pin 2**.
5. 2 Layers of 2-mil tape.
6. W2, 15V, Bias Winding: Wind W2 **15T, 1 strand x 26 SWG, ONE layer. Start W2 at pin 5, Finish W2 at Pin 4.**
7. 2 layers of 2 mil tape.
8. W3, 5V, 1.2A Winding : **5T, 2 strands x 26 SWG, ONE layer. Start pin 10 & Finish at pin 9.**
9. 2 layers of 2 mil tape.
10. W4, 24V, 0.3A, secondary winding : Wind **W4, 27 turns, 1 strand x 32 SWG, ONE layer**. **Start W4 and pin 6 and Finish W4 at pin 7.**
11. 2 layers 2 mil tape.
12. W5, 24V, 0.3A secondary winding : Wind **W5, 27 turns, 1 strand x 32 SWG, ONE layer. Start pin 8 and Finish as fly lead.**
13. 2 layers 2 mil tape.
14. W1A, remaining ½ primary winding. **Wind 23 turns, 1 strand x 26 SWG, ONE layer** , to cover the bobbin width. **Start pin 2 and finish pin 1**.
15. **Primary Inductance, Pin 1-3: 388uH +10%** (measure at 100kHz)
16. Leakage Inductance, Pin 1-3, pins 6 to 10 shorted: approx 17uH (measure at 100kHz)
17. Dip impregnate with varnish
18. Use equal air gap on each of the limbs.

**Regards,**

**Atul Bhakay**