**Transformer details of Low Input DC and 6 output, 31W SMPS**

Transformer core and bobbin : EE2507, 10 pin vertical, N87 or equivalent grade.

Primary turns = 12. Gauge = SWG 29. Wind uniformly on 1 layer to cover the bobbin width. Start pin 2 and finish pin 1.

2 layers of 2 mil tape.

Bias (VCC) winding – number of turns = 8. Gauge SWG 32. Wind uniformly on 1 layer to cover the bobbin width. Start pin 5 and finish pin 4.

2 layers of 2 mil tape.

Main Secondary 24V winding – number of turns =12. Gauge SWG 26. Wind uniformly to cover the bobbin width. Start pin 10 and finish pin 9.

2 layers of 2 mil tape.

+/-5V secondary windings – number of turns = 3. Gauge SWG 32. Wind the 2 windings as bi-filar to cover the bobbin width. Start +5V at pin 8 and finish +5V at pin 7. Start -5V at pin 7 and finish -5V at pin 6.

2 layers of 2 mil tape.

24V, 0.15A winding – number of turns = 14. Gauge SWG 32. Wind uniformly to cover the bobbin width. Start as a fly lead (red color) and finish as a fly lead (black color)

2 layers of 2 mil tape.

5V, 0.3A winding – number of turns = 3. Number of strand = 3. Gauge SWG 32. Wind to cover the bobbin width. Start as a fly lead (yellow color) and finish as a fly lead (brown color)

2 layers of 2 mil tape.

5V, 0.15A winding – number of turns = 3. Number of strands = 3. Gauge SWG 32. Wind to cover the bobbin width. Start as a fly lead (orange color) and finish as a fly lead (blue color)

Primary inductance = 27uH +10%, measured at 100KHz.

Leakage inductance < 1uH +/10%, measured at 100KHz.