**Layout instructions for 31-0003 (Arabesque)**

Schematic: 33-0003

Assembly: 30-0003

Artwork/Raw PCB: 31-0003

CAD files (PADs): 34-0003

Pallet drawing (if applicable): 32-0003

General board requirements:

PCB material and thickness: 0.062” thick; FR-4; 1-ounce CU clad; ENIG

Rough shape: 300mm X 84mm

Layers: 4

Layer designations:

1: Top components and routes

2: Plane (GND\_SIGNAL)

3: Plane (VCC)

4: Bottom components and routes

Component placement and routining:

* The resistor capacitor pair (R23/C35) should be placed close to U6.
* The trace running from J11 to U6, pin2 should be close to 50 ohms
* The circuitry on page 2 of the schematic should be placed in reasonably close proximity to its associated D-9 connectors and away from the digital circuitry on page 1.
* The digital circuitry on page 1 should be placed in proximity of connectors JJ3, J10, J11, J12 and J13.
* The mounting holes should be connected together in a “ring” using a hefty trace(3mm) to minimize inductance. The should be done on both the top and the bottom with vias spaced in 5mm increments.