S9UTG04ET 10 GIGABIT 100W 4PPOE CIRCUIT

1. MATERIALS
   - Nominal Thermoplastic Flexibility Rating UL 94-V0
   - Shield Nickel or Tin Plated Copper Alloy
   - Copper 10% Min. Material Content, 3.5% Min. Material Tin Over 21% Min. Nickel
   - Contact Information: 0.7mm Min. Nickel, 0.1mm Min. Copper, 0.001mm Min. Nickel
   - Electrical and Safety Rating: 100W Min. Power Consumption

2. Magnetic
   - Application: 10/100/1000 Mbps
   - Power: 100W Max.
   - Two Stacks of Components: In All Four Ports
   - Short-Circuit Inductive Load: 0.15 Ohms, 5.0Vrms, 1A DC Max.
   - All Four Ports 0 and 1.5Vrms, 1A DC Max.
   - All Four Ports 3 and 4.5Vrms, 1A DC Max.

3. Current: 100mA Max for Each Port
   - For Operation 0-50°C (Wet & Damp, Emergency in Max)
   - Insertion Loss Max: 0.5-1.5 dB, 0.5-1.5 dB, 0.5-1.5 dB, 0.5-1.5 dB
   - Return Loss Min: 15.0-20.0 dB
   - Return Loss Max: 15.0-20.0 dB, 15.0-20.0 dB, 15.0-20.0 dB, 15.0-20.0 dB
   - Crosstalk Attenuation: 15.0-20.0 dB
   - Common Mode Rejection: 15.0-20.0 dB
   - Isolation: 3000VDC for 60 seconds with a rise time of 5000VDC, with all ports connected.

4. The Magnetic Circuit on All Four Channels is Symmetrical and Supports Auto-Mux Operation.

5. Operating Temperature: -40°C to 85°C

6. Design and Basic Dimension Established by Customer.

7. RJS Cavity Conforms to FCC Rules and Regulation Part 68 Subpart B.

8. The Connector Location: Port Number, Date Code, Country of Origin.


The final design is without any LED. The LED is provided by the Customer himself and the SMD LED is mounted on customer PCBs.

For PCB size and placements, see Sheet 4.