**Objective**

Power over Ethernet (PoE) interfaces combine differential signals and DC power. This solution provides the protection for the power section of a quad port PSE (up to PoE++ Type 3).

**Solution**

- 1 TVS Diode Array: CDNBS08-T58CC
- 4 Quad Transformers: SM51625EL

**Compliance**

- IEC 61000-4-2 Level 4 (30 kV)
- IEC 61000-4-5 Level 2 (1 kV)

**Alternate Recommendations**

Other PortNote® and TelNote™ Solutions:
- Ethernet - ESD Protection PortNote®
- Ethernet - Power Over Ethernet (PoE) Surge Protection PortNote®
- Ethernet - 10/100 Base-T Power over Ethernet (PoE) PSE Unit Protection PortNote®
- Ethernet - 10/100 Base-T Power over Ethernet (PoE) PD Unit Protection PortNote®
- Ethernet - Exposed PoE Circuit Conditioning TelNote®

Contact Bourns for additional PoE++ and GbE solutions.

**Benefit**

This solution provides ESD and Surge protection, with low leakage, using a small area of the PCB.

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To order samples, click on the "Request Sample" button.

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*The Bourns® model CDNBS08-T58CC Diode Array helps ensure the circuit protection for Power over Ethernet (PoE) applications’ compliance to IEC 61000-4-2 Level 4 (30 kV) and IEC 61000-4-5 Level 2 (1 kV).

The schematic shown here illustrates the application and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.