


DFN-8 PACKAGE
OBJECTIVE

Ethernet interfaces are 2.5V digital signals operating on a 125MHz clock. This solution provides ESD protection commonly required in indoor, short-cable applications where ESD is the primary threat. It also provides protection for secondary lightning surges.

BENEFIT

This integrated TVS diode solution is designed to protect the interface against surge events by using two devices to protect both pairs of Ethernet lines.

COMPLIANCE

- IEC 61000-4-2 ±8kV Contact, ±15kV Air Discharge
- IEC 61000-4-4 EFT 40A, 5/50ns
- IEC 61000-4-5 Surge Secondary Lightning, 10A @ 8/20μs

SOLUTION

- 2 x PLR2512 in DFN-8 Package
- Stand-Off Voltage V_{WM} : 2.5 Volts
- Breakdown Voltage $B_{V_{MIN}}$: 2.7 Volts
- $V_C @ I_p$: 10.2V @ 10A
- Leakage Current I_R : 0.05μA
- Max. Capacitance: 3.0pF

ALTERNATE RECOMMENDATIONS

- 2 x PLR2210 (Low Capacitance for Gigabit applications)
- 4 x PLR3311

