

Products

ESD Protection

- > [2.5G Ethernet ESD and Surge Protection Overview](#)

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- > [RClamp0521Z](#)
Ultra Small RClamp® 1-Line ESD protection
- > [RClamp0531Z](#)
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- > [Rclamp0542Z](#)
Ultra Small RClamp® 2-Line ESD Protection
- > [RClamp0542ZA](#)
Femto Farad RailClamp® 2-Line, 300fF ESD Protection
- > [RClamp0552T](#)
Ultra Low Cap, 2 Line, Bidirectional ESD Protection
- > [RClamp0564P](#)
Femto Farad RailClamp® 4-Line, 170fF ESD Protection
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Low Capacitance RClamp® Surge Protection for uUSB Interfaces

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RClamp2574NQ

Semtech RClamp2574NQ

High Power TVS for Ethernet Interfaces

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Overview



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RailClamp® TVS diodes are specifically designed to protect sensitive components which are connected to high-speed data and transmission lines from overvoltage caused by ESD (electrostatic discharge), CDE (cable discharge events), and EFT (electrical fast transients).



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Features

- > Transient protection for high-speed data lines to
 - > IEC 61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
 - > IEC 61000-4-4 (EFT) 40A (5/50ns)
 - > IEC 61000-4-5 (Lightning) 40A (8/20µs)
- > Array of surge rated diodes with internal TVS Diode
- > Small package saves board space
- > Protects two line pairs
- > Low capacitance for high-speed interfaces
- > Low variation in capacitance vs. bias voltage

- > **RClamp1521PQ**
Ultra-Low Capacitance
1-Line ESD Protection

- > Low clamping voltage
- > Qualified to AEC-Q100 Grade1
- > Solid-state silicon-avalanche technology



Applications

- > 10/100/1000 Ethernet
- > Central Office Equipment
- > LVDS Interfaces
- > MagJacks / Integrated Magnetics
- > Notebooks / Desktops / Servers

Packaging

- > SLP3020N10 10L

Order Codes

- > RClamp2574NQ.TCT - Pb-Free, Halogen Free, RoHS/WEEE Compliant

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