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The ultimate connectors, components and electronic technology

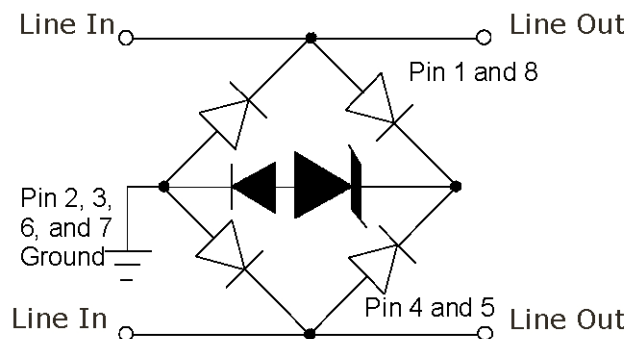
Application Note

Surge Protection Integrated Magnetic Ethernet Jack Connectors for Power Surge Protection

Application Note 23-282, Overview of Surge Protection Magnetic Connectors - *Protect the RJ45 Entry Point to Your Printed Circuit Boards*

Los Angeles, CA, June 2, 2008 - Xmultiple Technologies Increases Product Line of Surge Protection Magnetic Jack Connectors.

The Xmultiple XMS range of magnetic jack connectors are integrated with surge protection filters to provide protection against power surges. The XMS series is designed to provide point-of-entry protection against power surges caused by external sources such as lighting strikes and substation switching. The XMS is a first stage protection connector utilizing primary protection in conjunction with a low surge protection filter integrated into the RJ45 connector. Pictured below is the surge protection circuit diagram.



Surge Protection is now emerging as a real-time concern of many users who want to protect their printed circuit boards from power surges. Preventing downtime of a network connection is one of the main advantages of providing surge protection. What makes surge protection magnetic jacks connectors so important is due to the fact that they protect not only the electronic board of the networking equipment but in addition they protect the RJ connector. This is an important element of surge protection because the entry point of the networking

equipment is the RJ45 connector. Therefore if the surge protection chips are located on the printed circuit board of the networking equipment the power surges enter the board and do not have a wall of protection until they reach the chips on the board. By having the chip located inside the RJ45 connector the power surge is stopped right at the point of entry to the networking equipment.

So, when it comes to surge protection implementation the best solution is to have the surge protection integrated into the RJ45 connector. There are several key considerations:

- Surge Protection and filtering in the connector package.
- Modular Design so the filter is integrated with the magnetic.
- Available in various Amp ratings.
- Surge suppression rating of 60kA
- Multiple Stage Protection
- Power and Protection at the entry point of the printed circuit board.

A Full Product Line Of Surge Protection Connectors

The XMS series of connectors are available for the XRJH, XRJG, XRJV and XRJF Xmultiple series of magnetic connectors which are manufactured with and without LEDs. The XMSH, XMSG, XRJV and XMSF designate that the surge protection chips are integrated inside these connectors. The surge protection integration design was made with special care to assure the filter minimizes power surges caused by light loads, surge diverter operation and inductive load back conditions. Call us today for samples for your requirement.

For More Information Contact:

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