

Featured Products Bulletin

CIRCUIT PROTECTION PRODUCTS



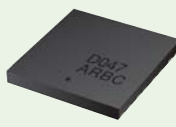
ADVANCE NOTICE

Bourns Releases New Transient Current Suppressor (TCS™) High-Speed Protector Products

Riverside, California - TO BE RELEASED SEPTEMBER 7, 2012 - Bourns is pleased to announce the release of new TCS™ High-Speed Protectors, designed to provide superior protection for very high data rate differential lines. Bourns® TCS-DL Series helps protect Gigabit Ethernet (GbE) and VDSL applications against faults caused by short circuits, induction and lightning surges by limiting the maximum current to a safe level.

Bourns® TCS™ High-Speed Protectors are typically used in conjunction with low capacitance Transient Voltage Suppressor (TVS) devices to form an extremely low let-through energy barrier to excessive voltages or currents during surge events, which may damage high-speed, low voltage driver and receiver components.

The DL Series of Bourns® TCS™ High-Speed Protector products contain a dual, well-matched, low resistance, bidirectional and very high-speed Transient Current Suppressor (TCS™) device.

| Specification | | TCS-DL Series | | |
|---|--------------------|--|---|--|
| | |  TCS-DL004-250-WH |  TCS-DL004-500-WH |  TCS-DL004-750-WH |
| Peak Impulse Voltage Withstand with Duration Less than 1 ms | V _{IMP} | 40 V | | |
| Typical Current Required for the Device to Go from Operating State to Protected State | I _{IMP} | 375 mA | 750 mA | 1100 mA |
| Typical Series Resistance of the TCS™ Device | R _{ON} | 2.3 ohms | 1.4 ohms | 1.0 ohms |
| Resistance Matching Between Side A and Side B | R _{MATCH} | ±0.05 ohms | ±0.03 ohms | ±0.02 ohms |

~ Continued on Page 2 ~

Features

- High-speed performance
- Superior overcurrent protection
- Bidirectional
- Low resistance
- Excellent channel to channel resistance matching
- Small SMT package
- RoHS compliant* and halogen free**

Applications

- VDSL and Ethernet ports
- Protection modules and dongles
- Process control equipment
- Data communications
- Test and measurement equipment

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

** Bourns follows the prevailing definition of "halogen free" in the industry. Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

The Bourns® TCS™ High-Speed Protectors meet industry standard requirements such as RoHS* and Pb Free solder reflow profiles. The devices are provided in space-saving, surface mount Dual, Flat, No-lead (DFN) packages.

The product data sheet with detailed specifications can be viewed on the Bourns website at www.bourns.com.

If you have any questions, please contact our customer service teams in your region.