



Bourns Introduces Ultra-Low Capacitance TVS Diode Array for Ultra-High-Speed Interface Protection

Model CDDFN6-3312P

Riverside, California – June 24, 2021 – Bourns is pleased to announce the release of the [Model CDDFN6-3312P](#) Ultra-Low Capacitance TVS Diode Array, designed to provide effective ESD protection in ultra-high-speed communication port and sensitive transceiver applications. The Bourns® Model CDDFN6-3312P features a DFN6 package (1 mm x 1.2 mm x 0.45 mm) that uses a flow-through layout to have a minimal effect on impedance, which is a critical requirement for ultra-high-speed ports such as HDMI 2.1 and USB 3.1. Furthermore, its ultra-low capacitance of only 0.18 pF minimizes signal degradation on each channel.

The Bourns® Model CDDFN6-3312P TVS diode array combines a 3.3 V TVS diode with steering diodes to provide protection for two high-speed data lines. It also meets IEC 61000-4-2 Level 4 ESD protection, and offers lightning protection of 3 A (8/20 μ s) per IEC 61000-4-5.

Available now, the Model CDDFN6-3312P surface mount TVS diode array is RoHS* compliant and halogen free**. Bourns® Diode Array data sheets with detailed specifications can be viewed on the Bourns website at www.bourns.com/products/diodes/diode-arrays.

If you have any questions or need additional information, please feel free to contact [Customer Service/ Inside Sales](#).

Features

- Feed-through package
- Low capacitance - 0.04 pF (I/O to I/O)
- ESD protection min. 8 kV
- RoHS compliant*
- Halogen free**

Applications

- HDMI
- DisplayPort™
- Digital Visual Interface (DVI)
- SATA and eSATA
- USB 3.1

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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. "DisplayPort" is a trademark of VESA.