



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



HDMI[®] Port

HDMI 2.0 - ESD & Overcurrent Protection

Solution Products



CDDFN10-3324P



CDSOT236-0504C



MF-FSMF020X-2

Design Kit



PN-DESIGNKIT-48

Objective

HDMI 2.0 offers an enhanced throughput of 18 Gbps for video, audio and Ethernet in applications such as Ultra High Definition Television (UHDTV), set-top boxes, DVD players, PCs, gaming stations, etc. Robust ESD protection that does not affect the impedance of the differential transmission lines is required. Overcurrent and surge protection of the 5 V supply from spikes caused by hot plugging of the connector is also required.

Solution

- 2 TVS Diode Arrays: CDDFN10-3324P
- 1 TVS Diode Array: CDSOT236-0504C
- 1 Multifuse[®] PTC Resettable Fuse: MF-FSMF020X-2

Compliance

IEC 61000-4-2 Level 4 (8 kV / 15 kV)

Alternate Recommendations

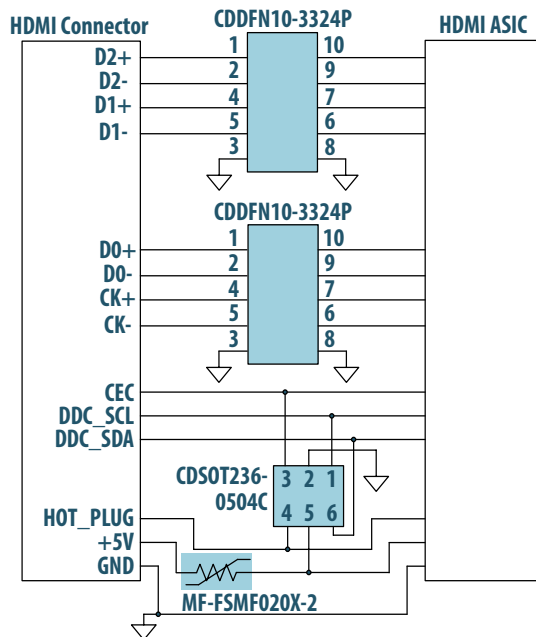
Two TVS Diode Arrays: CDDFN10-0506N with one Multifuse[®] PTC Resettable Fuse: MF-FSMF020X-2.

Other PortNote[®] Solutions:

- HDMI: HDMI 1.4 - ESD & Overcurrent Protection

Benefit

This solution provides IEC 61000 Level 4 ESD protection without impairing the HDMI signal.



The schematic shown here illustrates the application protection and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.