

HDMI[®] Port

HDMI 1.4 - ESD & Overcurrent Protection

Bourns[®] PortNote[®] solutions provide protection recommendations for typical port threats.

Solution Products



[CG0402MLU-05G](#)



[MF-ASML020/6](#)

Objective

HDMI 1.4 is a hot-pluggable interface combining video, audio & Ethernet signals. Voltages are 5 V or lower and the bandwidth is 340 MHz. This solution provides HDMI 1.4 ports with protection against ESD and short circuits without impairing the transmission of power or data.

Solution

9 ChipGuard[®] ESD Suppressors:

[CG0402MLU-05G](#)

1 Multifuse[®] PTC Resettable Fuse:

[MF-ASML020/6](#)

Compliance

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

Alternate Recommendations

Other PortNote[®] Solutions:

• [HDMI: HDMI 1.3 - ESD & Overcurrent Protection](#)

Other ChipGuard[®] Protectors:

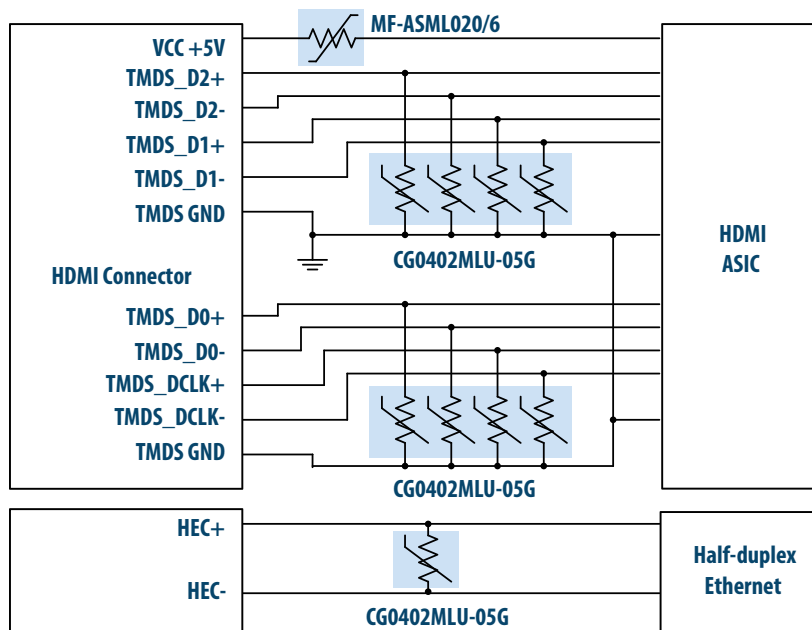
• [CG0603MLU-05E](#), [CG0402MLC-05LGA](#), [CG0603MLC-05LEA](#)

Other Multifuse[®] PPTC Resettable Fuse Solutions:

• [MF-PSHT020KX](#)

Benefit

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



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

www.bourns.com

BOURNS[®]

Americas: Tel +1-951-781-5500
Email americus@bourns.com

EMEA: Tel +36 88 885 877
Email eurocus@bourns.com

Asia-Pacific: Tel +886-2 256 241 17
Email asiacus@bourns.com