DisplayPort 1.2
ESD & Overcurrent Protection

Objective
DisplayPort is a royalty-free alternative to HDMI. DisplayPort 1.2 uses 3.3 V differential digital signals that support 1, 2, or 4 differential data pairs (lanes) in a main link. Each lane can operate up to 540 Mhz and deliver 4.32 Gbit/s. This solution provides DisplayPort interface protection from ESD damage and short circuits typically due to cables being plugged and unplugged frequently.

Solution
2 TVS Diode Arrays: CDDFN10-0524P
1 TVS Diode Array: CDSOT236-0504LC
1 Multifuse® PPTC Resettable Fuse: MF-FSML075/8

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

Alternate Recommendations
Other PortNote® Solutions:
• HDMI 1.4 - ESD & Overcurrent Protection

Other Multifuse® PPTC Resettable Fuse Solutions:
• MF-NSHT075KX

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

To order samples, click on the “Request Sample” button online.

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