

PortNote®

Solution Products





SMCJ20A/SML



CC453232-1R0KL

Design Kit



Satellite Receiver RF Input Surge Protection

Objective

This solution is designed to offer surge protection to the RF input port from a set-top box to a satellite dish. Lightning strikes or near strikes to the building can damage the delicate RF port and the power supply which is fed to the dish.

Compliance IEC 61000-4-5:

SMLJ20A alone: 8/20 µs surge 400 A SMCJ20A & 2051-09-SM & CC453232: 8/20 µs surge 2 kA

SMCJ20A alone: 8/20 µs surge 150 A

Benefit

This solution provides a low height, high current solution to exposed set-top box applications.

Solution Option 1

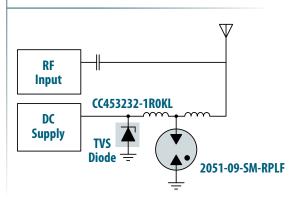
1 TVS Diode: SMCJ20A

Option 2

1 TVS Diode: SMLJ20A

Option 3

1 TVS Diode: SMCJ20A 1 GDT: 2051-09-SM-RPLF 1 Wirewound Chip Inductor: CC453232-1R0KL



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.



PN-DESIGNKIT-46

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Asia-Pacific: Tel +886-2 256 241 17 Fax +886-2 256 241 16 Bourns[®] PortNote[®] solutions provide protection recommendations for typical port threats.

For more information, go to:

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