

Satellite Receiver RF Input Surge Protection

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

Solution Products



2051-09-SM-RPLF



SMCJ20A/SMLJ20A



CC453232-1R0KL

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.

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

Compliance

IEC 61000-4-5:

SMCJ20A alone: 8/20 μ s surge 150 A

SMLJ20A alone: 8/20 μ s surge 400 A

SMCJ20A & 2051-09-SM & CC453232:

8/20 μ s surge 2 kA

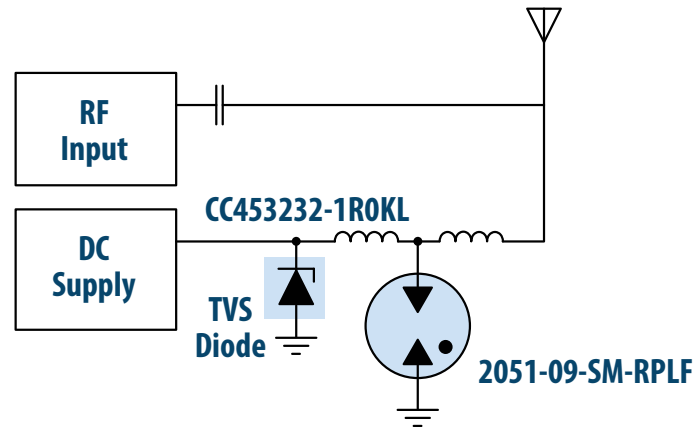
Benefit

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

Request Sample



To order samples, click on the "Request Sample" button.



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.

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