

Featured Products Bulletin

CIRCUIT PROTECTION

New Bourns® Design Kit and PortNote® Solution Satellite Receiver RF Input Surge Protection

Riverside, California - May 22, 2014 - Bourns is releasing a new Satellite Receiver RF Input Surge Protection **Design Kit** and **PortNote® Solution** which replaces Design Kit #37 and its Satellite Receiver RF Input Surge Protection PortNote® Solution. The kit offers a selection of components including Bourns® transient voltage suppressor diodes, a gas discharge tube surge protector, and a wirewound chip inductor.

PortNote® Solutions are available on Bourns' website at www.bourns.com. In addition to the PortNote® Solution there is a specific Design Kit to accompany the note. Each kit contains sufficient Bourns® components to prototype five boards.

PORTNOTE® SOLUTIONS **Satellite Receiver RF Input Surge Protection**

Solution Products

Objective
This solution is designed to offer surge protection to the RF input port from a hot tap line to a satellite dish. Lightning strikes on 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:
SMCJ20A above: 10/20 µs surge 150 A
SMLJ20A above: 10/20 µs surge 400 A
SMCJ20A & 2015-09-SM-RPLF & CC453232-1R0KL above: 10/20 µs surge 2 kA

Benefit
This solution provides a low height, high current solution to exposed hot tap line applications.

Solution

Option 1
1 TVS Diode: SMCJ20A

Option 2
1 TVS Diode: SMLJ20A

Option 3
1 TVS Diode: SMCJ20A
1 GDT: 2015-09-SM-RPLF
1 Wirewound Chip Inductor: CC453232-1R0KL

Design Kit

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Bourns® PortNote® solutions provide protection recommendations for typical port formats. For more information, go to www.bourns.com or email portnotes@bourns.com

Should you have any questions or need additional information, please feel free to contact [Customer Service/Inside Sales](#).

PortNote® Solution	Design Kit	Components Included
Satellite Receiver RF Input Surge Protection	PN-DESIGNKIT-46	SMCJ20A SMLJ20A 2015-09-SM-RPLF CC453232-1R0KL