



ACCESSORIES +

ANTENNAS ACCESSORIES COAX SURGE DIVERTER

Coax cable surge protection

CSD SERIES SURGE DIVERTERS

The surge diverters have a low insertion loss and are connected inline with the coaxial cable and are used to protect the module from the impact of lightning or transients via the antenna port.

We have two options to choose from and each have their pros and cons depending on the application and the frequency band it is operating in.

The CSD-SMA-2500 is designed to be connected directly to the antenna port of the Radio, allowing simple installation or retrofit. It is used in conjunction with the CC3, CC10, CC20 SMA male to N-type male coaxial cable kits, and allows connection to ELPRO products with the SMA female/male antenna connector and it is available for use with all frequencies up to 2.5GHz.

The CSD-N-6000 is an N-type connector bulkhead surge arrester and available in two configurations, female to female (CSD-N-6000) and male to female (CSD-N-6000MF) and can operate at frequencies up to 6GHz.

The CSD-N-6000 and CSD-N-6000MF are a bulkhead mount and designed to be installed through the cabinet box wall or directly on the cabinet antenna connector which can also provide a weather seal for the coaxial cable entry. They can also be used with the CC3/CC10/CC20 coaxial cables (N-type) however a CCTail cable must also be added to connect the arrester to the radio with either an SMA female or BNC female antenna connector.

Note: Surge protection devices rely on good earth grounding practices to be effective. These product assumes both a metallic enclosure and good ground connection to the enclosure or the attached ground cable has a good earth bond. If in doubt, apply another earth ground under the locknut to create a sufficient earth ground. In applications of high vibration, it is recommended to use the CSD-N-6000 surge diverter.

SPECIFICATIONS



Parameters	CSD-SMA-2500	CSD-N-6000 / CSD-N-6000MF
Manufacturer	Novaris	Novaris
Frequency	DC to 3GHz	DC to 6GHz
Insertion Loss	<0.2dB	<0.2dB
Max RF Power	40W	40W
Clamping Voltage	90Vdc	90Vdc
Impedence	50 Ohms	50 Ohms
VSWR	Less than 1.1:1	Less than 1.1:1
Max discharge current	20kA (8/20µs)	20kA (8/20µs)
Connectors	SMA male to female	CSD-N-6000 - female N-type, female N-type CSD-N-6000MF - male N-type, female N-type
Dimensions	50mm x 25mm (1.7" x 0.9")	69mm x 26mm (2" x 1")
Housing	IP55 Nickel Plated Brass	IP55 Nickel Plated Brass
Mounting	Inline between ELPRO product and coaxial cable	Bulkhead with Locknut
Weight	150g (5.3 oz)	160g (5.6 oz)

Note: Specifications are subject to change.

Order Codes

SURCSD-SMA-2500	Coaxial surge diverter, bulkhead, SMA Male to SMA Female
SURCSD-N-6000	Coaxial surge diverter, bulkhead N female to N female
SURCSD-N-6000-MF	Coaxial surge diverter, bulkhead N male to N female
SURCSD-GDT-90	Gas Discharge Tube replacement for Surge Arrestors

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