

正意防雷[®]Competitor

深圳市正意浪涌防雷器制造有限公司 Competitor SPD Manufacturing (Shenzhen) Co., Ltd.

Company Profile

Competitor is a professional surge protection device manufacturer, the headquater is located in Shenzhen, China. Our company dedicated to designing, manufacturing and selling all kinds of SPDs, such as power systems, IoT/AI equipments, communication base stations, construction machinery, Medical instruments, LED lighting and so on.

We are processing the well-known componets with the high-quality. We have specialized in customized order for meet clients requirement. Our marketing strategy is flexiable enough to adapt to different market situation. We also acquired the UL,TUV and CE certificate for overseas markets.quality is always our first priority to clients. Therefore we have a lot of clients, including ODM,OEM clients.

Hope that with our efforts, Competitor Inc. will also be your ideal cooperative partner.

Product Application

Smart City Al System

Rail Transit Apparatuses

Equipment Power System

Control Signal Ethernet Terminal

Monitor Wiring Medical Instrument

IoT Supply Power Electric Appliances

Communication Base Station Traffic Light System

Please don't hesitate to contact us if you have any needs!

Thanks for your inquiry.

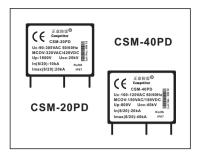
Surge Protection Device

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If you need customized products, please contact us directly.

Electric Appliances Surge Protection Module



Description

Competitor s module is based on thermal protection technology and applied to electric product, communication product circuit design on-board for transient overvolatge protection. It is constructed with Epcos varistortechnology. It's built-in thermal disconnect function provides additional ptotection to prevent catastrophic failure and fire hazard even under the extreme circumstances of varistor end-of-life or sustaining over voltage conditions.

Applications

*5G Base Station

*Communication Circuit

*Product Design On Board

*Electric Appliance Product

*Electric Surge Protect

*Household Electric PCBA

*Telecommunications room

*Power Distribution Cabinet

Certification Standard

TUV CE	IEC61643-11:2015	CQC	GB/T 18802.1-2011
UL	UL1449 ^{4th}	CSA	C22.2 No.269.5-17

Absolute Maximum Rating

Continous:	CSM-PD/SD Series	Units
Max AC Voltage Range(Vmrms)	12 to 510	V
Max DC Voltage Range(Vmrms)	5 to 670	V
Transient		
Maximum Discharge Current 8/20uS Waveforn	n(lmax) 10000	Α
Norminal Discharge Current 8/20uS Wave	eform(In) 5000	Α
Operating Ambient Temperature Range(T	a) -45 to +85	°C
Storage Temperature Range(Tstg)	-45 to +125	°C
Isolation Voltage Capability	600	V
Insulation Resistance	>1000	$M\Omega$

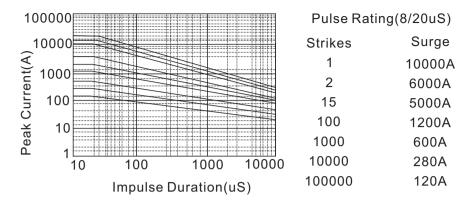
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^{*}Telecommunication distribution cabinet *Column communication cabinet

Repetitive Surge Capability for Module



Module Series Specifications

Part Number	Operating Voltage	MCOV	In	lmax	Up
CSM-10PD*	DC5-24V	DC14-38V	2kA	5kA	36-100V
CSM-15PD*	DC24-72V	DC65-125V	5kA	10kA	100-300V
CSM-20PD*	AC100-480V	AC140-510V	5kA	10kA	360-2000V
CSM-30PD*	AC100-480V	AC140-510V	8kA	15kA	360-2100V
CSM-40PD*	AC100-480V	AC140-510V	10kA	20kA	360-2500V
CSM-10SD*	DC12-80V	DC18-150V	5kA	10kA	100-500V
CSM-15SD*	AC100-480V	AC140-510V	15kA	30kA	360-3500V
CSM-20SD*	AC100-480V	AC140-510V	20kA	40kA	360-4000V
CSM-30SD*	AC100-480V	AC140-510V	20kA	40kA	360-4000V
CSM-40SD*	DC12-80V	DC18-150V	20kA	40kA	300-500V

Notes:

- 1.*=XXX,005=DC5V,012=DC12V;Part number with "RS"-Remote Signal only.
- 2.Up-IEC 61643-11voltage protection level; the highest value of residual voltage measurements during the application of impulses of 8/20uS norminal discharge current (In); an rounding voltage value of maximum measurement.
- 3.MCOV/Uc:Maximum Continuous Operating Voltage-maximum r.m.s voltage that could be continuously applied to the surege module.

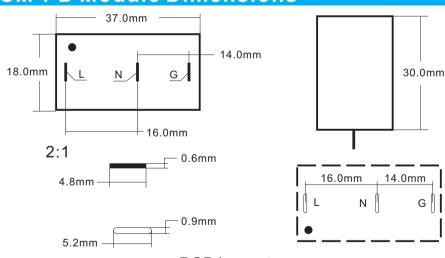
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Module Features

- *Maximum Discharge Current(Imax) 10kA/15kA/20kA/30kA/40kA,8/20uS
- *Meets ANSI C136.2 Enhanced Level 10kV/5kA.IEEE C62.41.2 Location Category C Low Exposure and US Dept. of Energy MSSLC Model Spec. *240VAC and 480VAC are CE
- *Thermally Protected Varistor Technology
- *Parallel Connected Surge Protection Module
- *IP67 Water-proof and Dust-proof
- *Design in UL1449^{4th}(120VAC and 240VAC voltage ratings)
- *Parallel for 240VAC and 480VAC is IEC61643-11 Test Class III and EN61643-11 Type 3 compliant

- *IEC CB Scheme Certificate NI -37684 available for 240VAC and NI -40516 for 480VAC
- *Compact form factor with mounting tabs
- compliant and available for Class II and Class III installation based on IEC protection classes
- *Series connected Varistor thermal protection indication by removal of power to luminaire
- *High line to earth/ground resistance
- *RoHS compliant
- *Compact Size SPD

CSM-PD Module Dimensions



PCB Layout Notes:

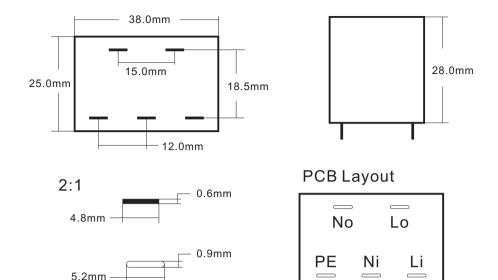
- 1.PIN are 4.8mm wide 0.6mm thick PCB terminals
- 2. Remote signal output is optional active and passive output

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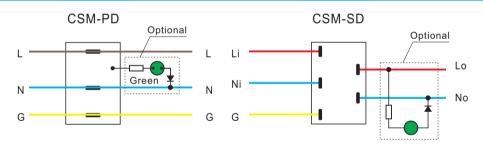
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CSM-SD Module Dimensions



Application Installation Schematic



With LED indicating Module status

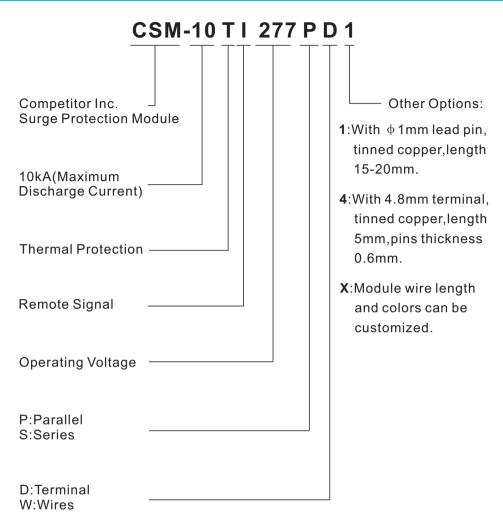
- -ON (Green):SPD is online
- -OFF(Red):SPD needs replacement

Notes:

- 1. Module used in parallel connection for indication curcuit connection.
- 2.LED indicator and associated circuitry are not included in the module.
- 3.L terminal is AC line voltage; N terminal is AC neutral voltage; G terminal is ground.
- 4. Series connection module L(AC) line voltage is cut off when SPD needs replacement.
- 5.R is current limiting resistor, it resistance/wattage is determined by AC line voltage and desired current driving LED. Example: AC line voltage 240VAC, LED: 1.6mA.
- 6. External indicator must be current limiting resistor.

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Part Number Code System



Notes

- 1. "I": with failure indication PIN.
- 2.W:wires connection type, It's a customized product.
- 3. Series type and parallel type are optional, please ask us when you place an order.
- 4.Some contents in the model will not appear on the label, which is the recessive material code.

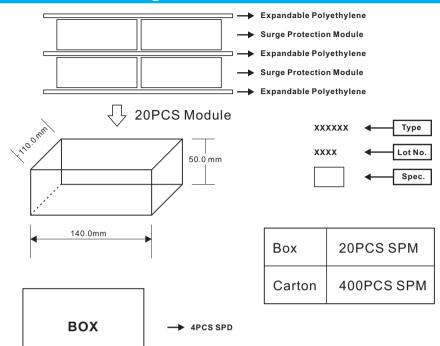
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Products Packing



20 Boxs Module



CSM-10PD/SD	52g
CSM-15PD/SD	52g
CSM-20PD/SD	55g
CSM-40PD/SD .	

Shipping Mark

Customer:	_	
Products:	_	
Order Code:		
Part No.:	_	
Quantity:	_	
QC:	_	
Date:	_	
Made in China		

Carton

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