

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LSA-PLUS plug (COMTRAB CTM) with protective circuit for 2-conductor signal circuits grounded on one side. Nominal voltage: 12 V DC

#### Why buy this product

- ☑ Can be used in LSA-PLUS disconnect and control strips or CT-TERMIBLOCK

- Modular compact protection for high-density networks









## **Key Commercial Data**

Packing unit	10 STK
GTIN	4 017918 819606
GTIN	4017918819606

### Technical data

#### **Dimensions**

Height	21 mm
Width	9.5 mm
Depth	53.5 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C 75 °C
Degree of protection	IP20

#### General

Housing material	PA
Flammability rating according to UL 94	V-0
Color	black



## Technical data

### General

Standards for cearances and creepage distances	DIN VDE 0110-1	
	IEC 60664-1	
Overvoltage category	II	
Degree of pollution	2	
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip	
Туре	LSA-PLUS module	
Number of positions	2	
Direction of action	Line-Line & Line-Earth Ground	
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10	

#### Protective circuit

r rotective circuit	
IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Nominal voltage U <sub>N</sub>	12 V DC
Maximum continuous voltage U <sub>C</sub>	± 15 V DC
	10 V AC
Rated current	380 mA AC (25 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA
Residual current I <sub>PE</sub>	≤ 2 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (line-earth)	5 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs (line-earth)	1 kA
Total discharge current I <sub>total</sub> (8/20) µs	10 kA
Total discharge current I <sub>total</sub> (10/350) μs	2.5 kA
Max. discharge current I <sub>max</sub> (8/20) μs maximum (line-earth)	10 kA (in total)
Nominal pulse current lan (10/1000) µs (line-earth)	100 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 28 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 22 V
Residual voltage at I <sub>n</sub> (line-earth)	≤ 32 V
Residual voltage with Ian (10/1000) µs (line-earth)	≤ 18 V
Voltage protection level U <sub>p</sub> (line-earth)	≤ 60 V (C2 - 10 kV/5 kA, spike)
	≤ 30 V (C3 - 7.5 kV / 100 A, spike)
Response time t <sub>A</sub> (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.3 dB (≤ 400 kHz)
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## Technical data

### Protective circuit

Cut-off frequency fg (3 dB), asym. (PE) in 100 Ohm system	1.5 MHz
Capacity (line-earth)	1.5 nF (f=1 MHz / V <sub>R</sub> = 0 V)
Resistance in series	3.3 Ω 10 %
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 4 kV/2 kA
	C3 - 100 A
	B2 - 4 kV/100 A
	D1 - 1 kA
Alternating current carrying capacity (line-earth)	5 A - 1 s

#### Connection data

Connection method	can be plugged into COMTRAB-TERMIBLOCK and LSA-PLUS disconnect and switching strips
Connection method IN	COMTRAB plug-in system
Connection method OUT	COMTRAB plug-in system
Connection technology	LSA-PLUS

### Connection, equipotential bonding

Connection method	Spring contact
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#### Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

### **Environmental Product Compliance**

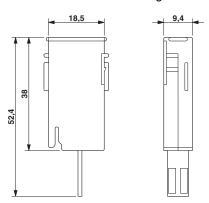
REACh SVHC	Lead 7439-92-1	
China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	

## **Drawings**

### Pictogram

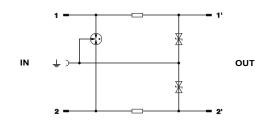


### Dimensional drawing





#### Circuit diagram



## Approvals

Approvato		
Approvals		
Approvals		
UL Listed / EAC		
Ex Approvals		
Approval details		

#### approvai detaiis

UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168



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