

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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Surge protection plug for the base element, coarse and fine protection for two signal wires with common reference potential, common mode voltage coarse protection to ground. Design: 12 V DC

Why buy this product

- ☑ Plugs can be checked with CHECKMASTER
- ☑ Installed in conjunction with the PT 2x1...-BE base element
- Maximum ease of maintenance thanks to the two-piece design
- ☑ Base element remains an integral part of the installation.
- Consistent plug-in signal circuit protection
- Protection for two conductors with common reference potential
- ☑ Impedance-neutral disconnection of plug for test and maintenance purposes













Key Commercial Data

| Packing unit | 10 STK |
|--------------|-----------------|
| GTIN | 4 017918 599171 |
| GTIN | 4017918599171 |

Technical data

Dimensions

| Height | 44.8 mm |
|------------------------|---------|
| Width | 17.5 mm |
| Depth | 51.7 mm |
| Horizontal pitch | 1 Div. |
| Complete module height | 90 mm |
| Complete module width | 17.7 mm |
| Complete module depth | 65.5 mm |

Ambient conditions



Technical data

Ambient conditions

| Ambient temperature (operation) | -40 °C 85 °C | |
|---------------------------------|--------------|--|
| Degree of protection | IP20 | |

General

| Housing material | PA 6.6 |
|--|--|
| Flammability rating according to UL 94 | V-0 |
| Color | black |
| Standards for cearances and creepage distances | VDE 0110-1 |
| | IEC 60664-1 |
| Mounting type | on base element |
| Туре | Male |
| Direction of action | Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground |
| Arrester can be tested with CHECKMASTER from software version: | From SW rev. 1.00 |

Protective circuit

| r rotective circuit | |
|--|-----------------------------|
| IEC test classification | C1 |
| | C2 |
| | C3 |
| | D1 |
| VDE requirement class | C1 |
| | C2 |
| | C3 |
| | D1 |
| Nominal voltage U _N | 12 V DC |
| Maximum continuous voltage U _C | 13 V DC |
| | 9 V AC |
| Rated current | 300 mA (45°C) |
| Operating effective current I _C at U _C | ≤ 5 µA |
| Residual current I _{PE} | ≤ 1 μA (with PT 2X1+F-BE) |
| | ≤ 10 μA (Directly grounded) |
| Nominal discharge current I _n (8/20) µs (line-earth) | 10 kA |
| Pulse discharge current I _{imp} (10/350) μs | 2.5 kA (per path) |
| Total discharge current I _{total} (8/20) μs | 20 kA |
| Max. discharge current I _{max} (8/20) μs maximum (line-earth) | 10 kA |
| Nominal pulse current lan (10/1000) µs (line-earth) | 67 A |
| Output voltage limitation at 1 kV/µs (line-earth) spike | ≤ 23 V |
| | ≤ 600 V (with PT 2X1+F-BE) |
| Output voltage limitation at 1 kV/µs (line-earth) static | ≤ 18 V |
| Residual voltage at I _n (line-earth) | ≤ 18 V |
| Residual voltage with Ian (10/1000) µs (line-earth) | ≤ 23 V |
| Voltage protection level U _p (line-earth) | ≤ 65 V (C2 - 10 kV / 5 kA) |
| voltage protection level op (inte-cartif) | S 03 V (GZ - 10 KV / 3 KA) |

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Technical data

Protective circuit

| Response time t _A (line-earth) | ≤ 1 ns | |
|--|---------------------------|--|
| Input attenuation aE, asym. | 0.5 dB (≤ 600 kHz) | |
| Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system | typ. 3 MHz | |
| Capacity (line-earth) | 1.5 nF | |
| Resistance in series | 4.7 Ω (1-2/5-6/7-8/11-12) | |
| Surge protection fault message | none | |
| Max. required back-up fuse | 315 mA (T) | |
| Impulse durability (line-earth) | C2 - 10 kV/5 kA | |
| | D1 - 2.5 kA | |

Connection data

| Screw thread | M3 | |
|----------------------------------|-----------------|--|
| Tightening torque | 0.8 Nm | |
| Stripping length | 8 mm | |
| Conductor cross section flexible | 0.2 mm² 2.5 mm² | |
| Conductor cross section solid | 0.2 mm² 4 mm² | |
| Conductor cross section AWG | 24 12 | |

Standards and Regulations

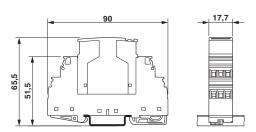
| Standards/regulations | IEC 61643-21 | |
|--------------------------|-------------------|--|
| | DIN EN 61643-21 | |
| | UL 497B | |
| Standards/specifications | IEC 61643-21 2000 | |

Drawings

Pictogram



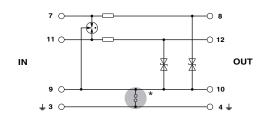
Dimensional drawing



The figure shows the complete module consisting of a base element and connector



Circuit diagram



Approvals

| Α | n | n | r۸ | V: | al | 9 |
|---|---|---|----|----|----|---|

Approvals

UL Listed / EAC / EAC / DNV GL

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

| UL Listed | UL LISTED | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | | FILE E 138168 |
|--------------------|--------------|---|-------|---------------|
| | | | | |
| Nominal voltage UN | | | 12 V | |
| Nominal current IN | | | 0.3 A | |

| E | AC EAL | EAC-Zulassung |
|---|--------|---------------|
|---|--------|---------------|

| EAC | ERC | RU C- DE.A*30.B01561 |
|-----|-----|-------------------------|
|-----|-----|-------------------------|

| DNV GL | http://exchange.dnv.com/tari/ | TAE00001N6 |
|--------|-------------------------------|------------|
| | | |



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