

C-UFB- 5DC/E - Surge protection device



2782300

<https://www.phoenixcontact.com/us/products/2782300>

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Attachment plug with surge voltage coarse and fine protection, for coaxial signal interfaces with floating shield, signal voltage 5 V. Connection: BNC socket/plug

Your advantages

- Easy installation with system-compliant connection
- Low signal interference with adapted protective circuit
- Limitation of energy-rich pulses with powerful protection

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2782300 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CL25 |
| Product key | CL3313 |
| GTIN | 4017918069445 |
| Weight per piece (including packing) | 110.4 g |
| Weight per piece (excluding packing) | 106.616 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |

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Technical data

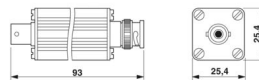
Product properties

| | |
|--------------------------------|--|
| Product type | Surge protection for transceiver systems |
| IEC test classification | C2 |
| | C3 |
| | D1 |
| Type | Intermediate plug |
| Surge protection fault message | none |

Connection data

| | |
|-------------------|-----------------|
| Connection method | BNC 50 Ω |
|-------------------|-----------------|

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 25.4 mm |
| Height | 93 mm |
| Length | 25.4 mm |

Material specifications

| | |
|------------------|------------------|
| Color | black (RAL 9005) |
| | silver-colored |
| Housing material | Aluminum |

Mechanical properties

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Protective circuit

| | |
|---|--------------------------|
| Direction of action | Line-Shield/Earth Ground |
| Maximum continuous operating voltage U_C | 5 V DC |
| Rated current | 185 mA (25 °C) |
| Operating effective current I_C at U_C | $\leq 300 \mu\text{A}$ |
| Protective conductor current I_{PE} | $\leq 2 \mu\text{A}$ |
| Nominal discharge current I_n (8/20) μs (line-ground) | 10 kA |
| Nominal discharge current I_n (8/20) μs (line-shield) | 10 kA |
| Total discharge current I_{Total} (8/20) μs | 20 kA |
| Output voltage limitation at 1 kV/ μs (line-earth) spike | $\leq 500 \text{ V}$ |

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| | |
|--|----------------------------------|
| Output voltage limitation at 1 kV/ μ s (line-shield) spike | ≤ 35 V |
| Output voltage limitation at 1 kV/ μ s (line-shield) static | ≤ 15 V |
| Residual voltage at I_n (conductor-shield) | ≤ 10 V |
| Voltage protection level U_p (line-earth) | ≤ 500 V (C1 - 1 kV / 500 A) |
| | ≤ 500 V (C3 - 10 A) |
| Voltage protection level U_p (line-shield) | ≤ 25 V (C3 - 10 A) |
| | ≤ 55 V (C1 - 1 kV / 500 A) |
| Response time t_A (line-earth) | ≤ 100 ns |
| Response time t_A (line-shield) | ≤ 500 ns |
| Input attenuation aE, asym. | typ. 2 dB (≤ 20 MHz) |
| Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ω system | typ. 90 MHz |
| Surge protection fault message | none |
| Impulse durability (line-earth) | C2 - 10 kV / 5 kA |
| | D1 - 2.5 kA |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 80 °C |

Standards and regulations

Standards Information technology specification

| | |
|-----------------------|--------------|
| Standards/regulations | IEC 61643-21 |
| | IEC 61643-21 |

Air clearances and creepage distances

| | |
|--------------------------|--------------------------|
| Standards/regulations | VDE 0110-1 / IEC 60664-1 |
| Standards/specifications | IEC 61643-21 |
| Note | 2000 |

Mounting

| | |
|---------------|---|
| Mounting type | Connection-specific intermediate plugging |
|---------------|---|

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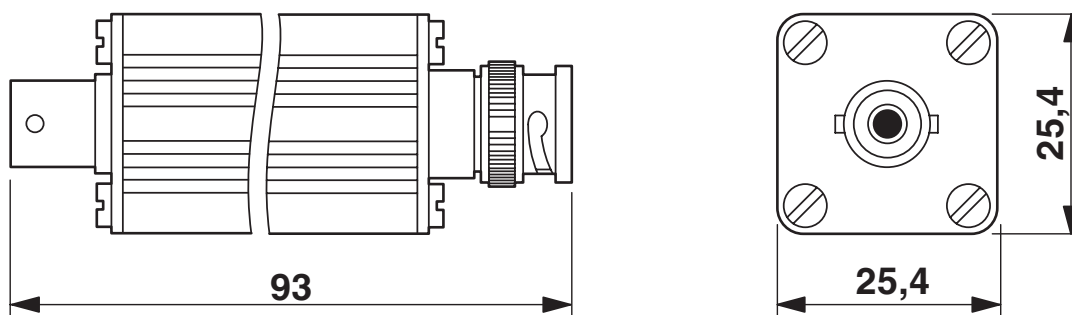
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Drawings

Dimensional drawing

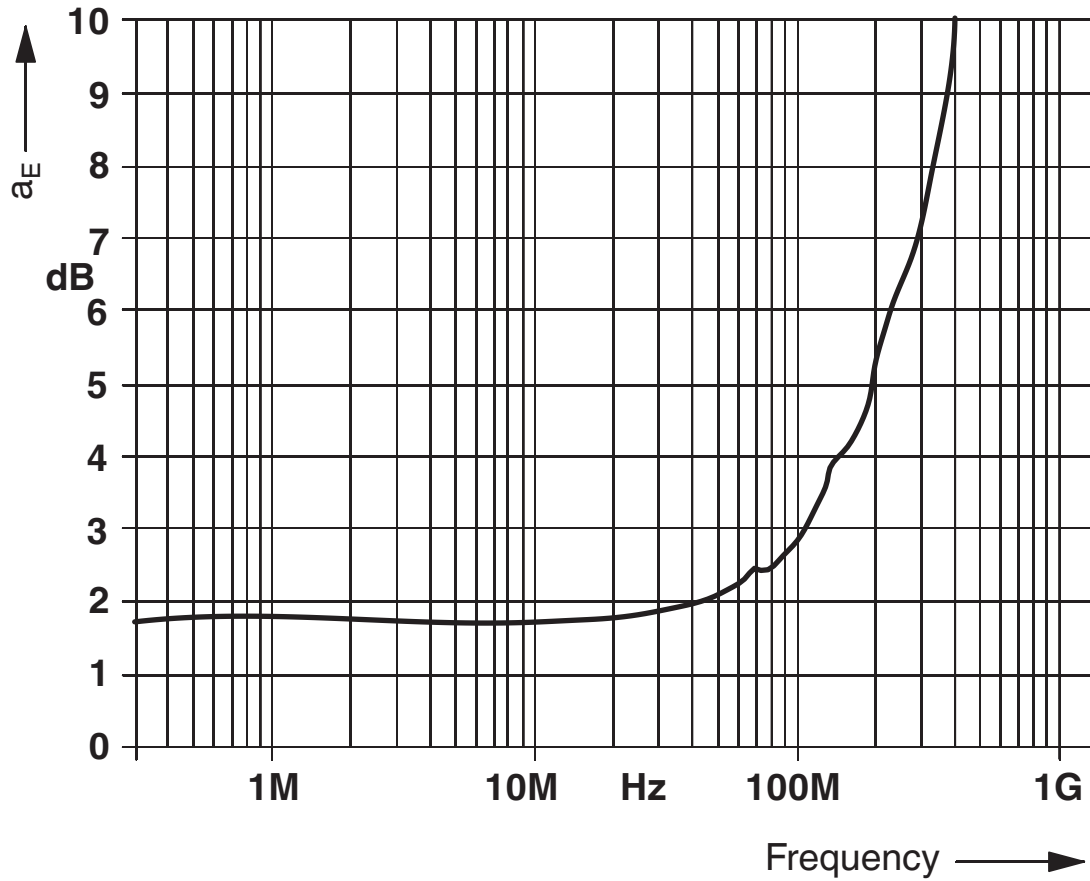


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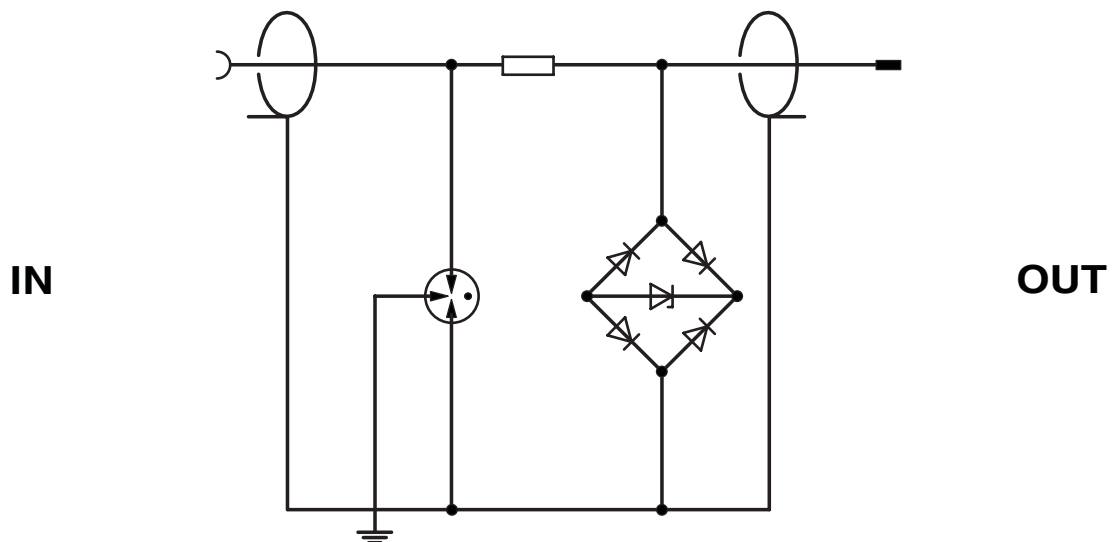
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Diagram



Circuit diagram



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Classifications

ECLASS

ECLASS-13.0

27171503

ETIM

ETIM 9.0

EC000943

UNSPSC

UNSPSC 21.0

39121600

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 200d57b6-f41d-4c28-bdf3-5c52deb4ed15 |

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com