

C-UB - Surge protection device

2782245

<https://www.phoenixcontact.com/us/products/2782245>

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Attachment connector with surge protection, for coaxial signal interfaces. Connection: BNC socket/plug

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2782245 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CL03 |
| Product key | CL3316 |
| GTIN | 4017918069438 |
| Weight per piece (including packing) | 63.86 g |
| Weight per piece (excluding packing) | 62.64 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |

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Technical data

Notes

General

| | |
|------|---|
| Note | To meet the discharge conditions for DC voltages, please note the following information: "The surge protective device should be used together with a transmitter unit, which shuts down in the event of a short-circuit." |
|------|---|

Product properties

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

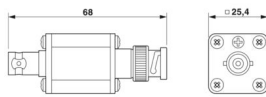
Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree | 2 |

Connection data

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 25.4 mm |
| Height | 25.4 mm |
| Length | 68 mm |

Material specifications

| | |
|------------------|----------|
| 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 | 68 V DC |
| | 50 V AC |

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| | |
|--|---|
| Rated current | 1 A (25 °C) |
| Operating effective current I_C at U_C | $\leq 1 \mu\text{A}$ |
| 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 |
| Pulse discharge current I_{imp} (10/350) μs (line-earth) | 2.5 kA |
| Pulse discharge current I_{imp} (10/350) μs (line-shield) | 2.5 kA |
| Output voltage limitation at 1 kV/ μs (line-earth) spike | $\leq 650 \text{ V}$ |
| Output voltage limitation at 1 kV/ μs (line-shield) spike | $\leq 650 \text{ V}$ |
| Voltage protection level U_p (line-earth) | $\leq 650 \text{ V}$ (C2 - 10 kV / 5 kA) |
| Voltage protection level U_p (line-shield) | $\leq 650 \text{ V}$ (C2 - 10 kV / 5 kA) |
| Response time t_A | $\leq 100 \text{ ns}$ |
| Input attenuation aE, asym. | typ. 0.1 dB ($\leq 20 \text{ MHz} / 50 \Omega$) |
| Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ω system | typ. 1 GHz |
| Voltage standing wave ratio VSWR in a 50 Ω system | ≤ 1.20 ($\leq 200 \text{ MHz}$) |
| Permissible HF power P_{max} at VSWR = xx (50 ohm system) | 40 W (VSWR = 1.1) 12 W (VSWR = ∞) |
| Capacity asymmetrical (shield) | typ. 1.5 pF |
| Surge protection fault message | none |
| Impulse durability (line-earth) | C2 - 10 kV / 5 kA C3 - 100 A D1 - 2.5 kA |
| Impulse durability (line-shield) | C2 - 10 kV/5 kA C3 - 100 A D1 - 2.5 kA |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Altitude | $\leq 2000 \text{ m}$ (amsl) |

Standards and regulations

Air clearances and creepage distances

| | |
|--------------------------|------------------------------|
| Standards/regulations | DIN VDE 0110-1 / IEC 60664-1 |
| Standards/specifications | IEC 61643-21 |
| Note | 2012 |
| Standards/specifications | EN 61643-21 |
| Note | 2013 |

Mounting

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

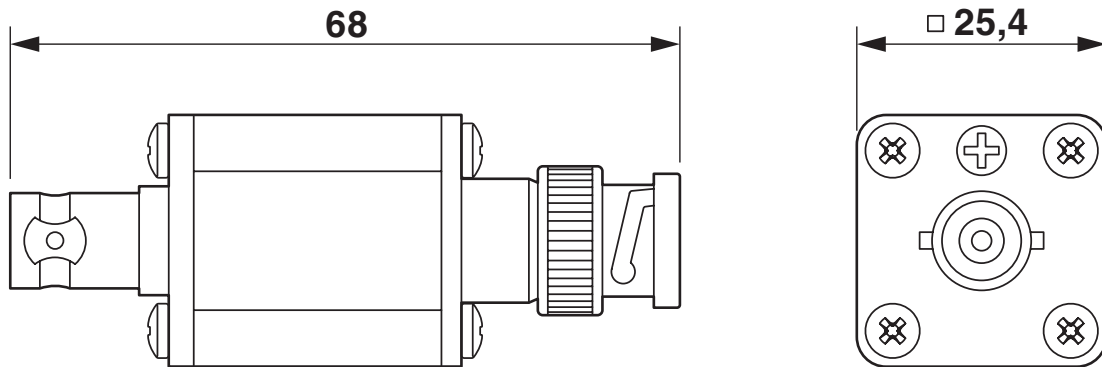
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2782245

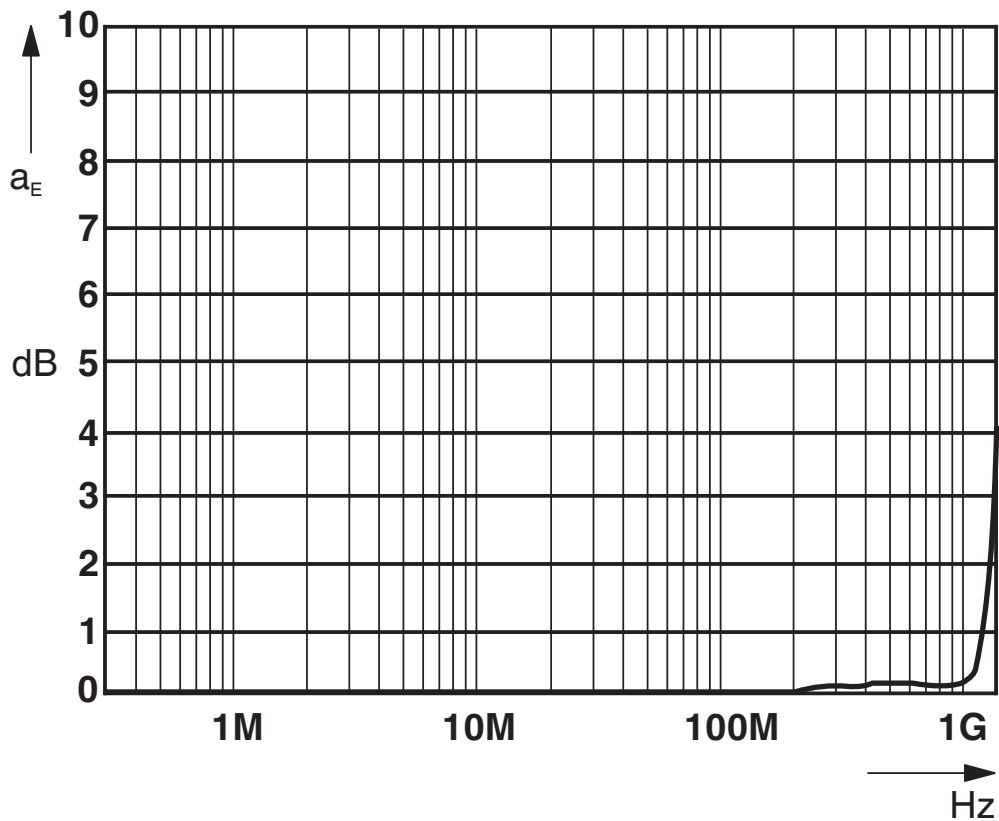
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Drawings

Dimensional drawing



Diagram



The figure shows the asymmetrical characteristic curve for 50

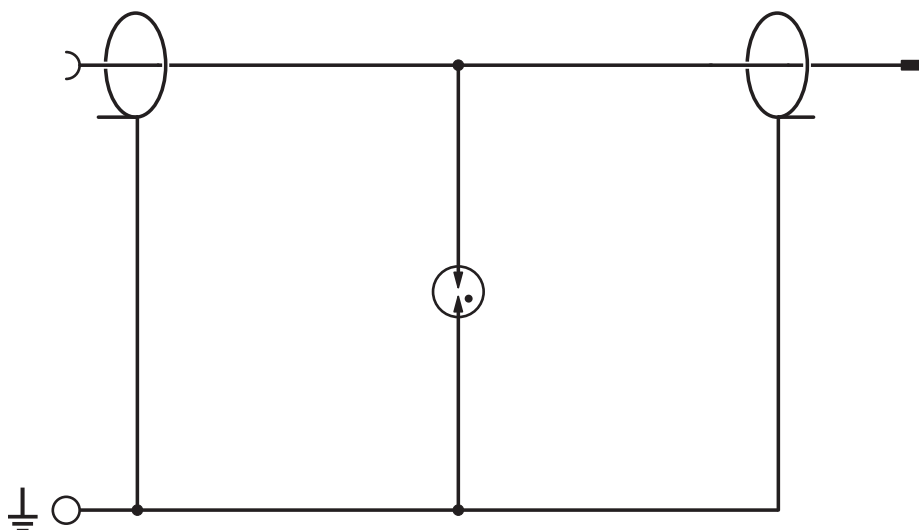
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Circuit diagram



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Environmental product compliance

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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