

# C-UFB- 5DC - Surge protection device

2797858

<https://www.phoenixcontact.com/in/products/2797858>



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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2797858                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL3                            |
| Product key                          | CL3313                         |
| Catalog page                         | Page 140 (C-6-2013)            |
| GTIN                                 | 4017918073534                  |
| Weight per piece (including packing) | 86.245 g                       |
| Weight per piece (excluding packing) | 86.2 g                         |
| Customs tariff number                | 85363010                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

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

### Connection data

|                   |                 |
|-------------------|-----------------|
| Connection method | BNC 50 $\Omega$ |
|-------------------|-----------------|

### Dimensions

|        |         |
|--------|---------|
| Width  | 25.4 mm |
| Height | 93 mm   |
| Length | 25.4 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 voltage $U_C$                                     | 5 V DC                           |
| Maximum continuous voltage $U_C$ (line-earth)                        | 5 V DC                           |
| Operating effective current $I_C$ at $U_C$                           | $\leq 300 \mu A$                 |
| Residual current $I_{PE}$                                            | $\leq 300 \mu A$                 |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)         | 10 kA                            |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-shield)         | 10 kA                            |
| Total surge current (8/20) $\mu s$                                   | 10 kA                            |
| Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-earth) | 10 kA                            |
| Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike        | $\leq 25 V$                      |
| Output voltage limitation at 1 kV/ $\mu s$ (line-shield) spike       | $\leq 25 V$                      |
| Output voltage limitation at 1 kV/ $\mu s$ (line-earth) static       | $\leq 15 V$                      |
| Output voltage limitation at 1 kV/ $\mu s$ (line-shield) static      | $\leq 15 V$                      |
| Residual voltage at $I_n$ (conductor-ground)                         | $\leq 22 V$                      |
| Residual voltage at $I_n$ (conductor-shield)                         | $\leq 22 V$                      |
| Voltage protection level $U_p$ (line-earth)                          | $\leq 120 V$ (C2 - 10 kV / 5 kA) |
|                                                                      | $\leq 45 V$ (C1 - 1 kV / 500 A)  |

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|                                                               |                             |
|---------------------------------------------------------------|-----------------------------|
|                                                               | ≤ 20 V (C3 - 10 A)          |
| Voltage protection level $U_p$ (line-shield)                  | ≤ 120 V (C2 - 10 kV / 5 kA) |
|                                                               | ≤ 45 V (C1 - 1 kV / 500 A)  |
|                                                               | ≤ 20 V (C3 - 10 A)          |
| Voltage protection level $U_p$ static (line-earth)            | ≤ 35 V (C1 - 1 kV / 500 A)  |
|                                                               | ≤ 70 V (C2 - 10 kV / 5 kA)  |
| Response time $t_A$ (line-earth)                              | ≤ 500 ns                    |
| Response time $t_A$ (line-shield)                             | ≤ 500 ns                    |
| Input attenuation aE, asym.                                   | 2 dB (≤ 10 MHz)             |
| Cut-off frequency $f_g$ (3 dB), asym. (PE) in 50 Ω system     | typ. 90 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

### Air clearances and creepage distances

|                       |                          |
|-----------------------|--------------------------|
| Standards/regulations | VDE 0110-1 / IEC 60664-1 |
|-----------------------|--------------------------|

### Standards Information technology specification

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

## Mounting

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

# C-UFB- 5DC - Surge protection device

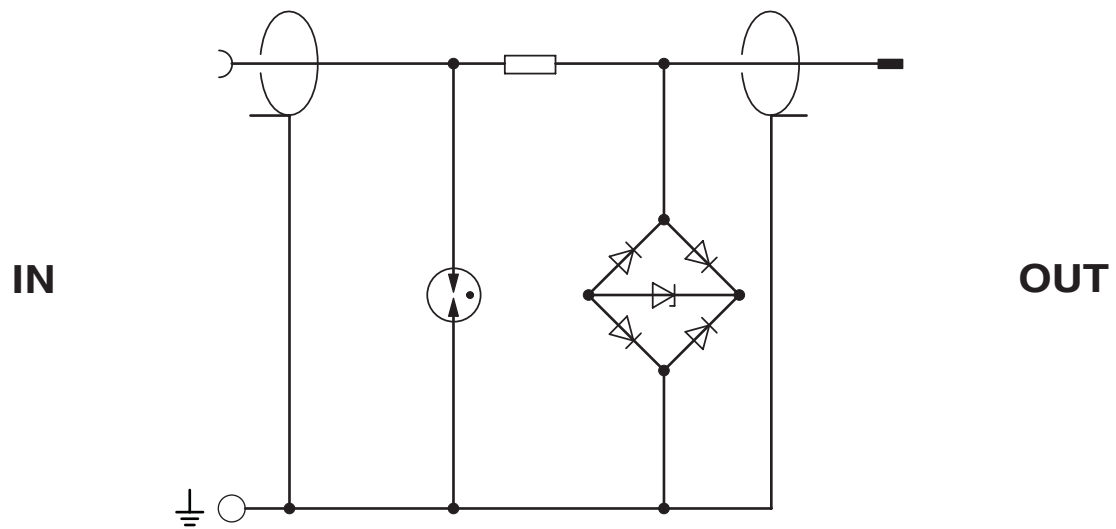
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## Drawings

Circuit diagram



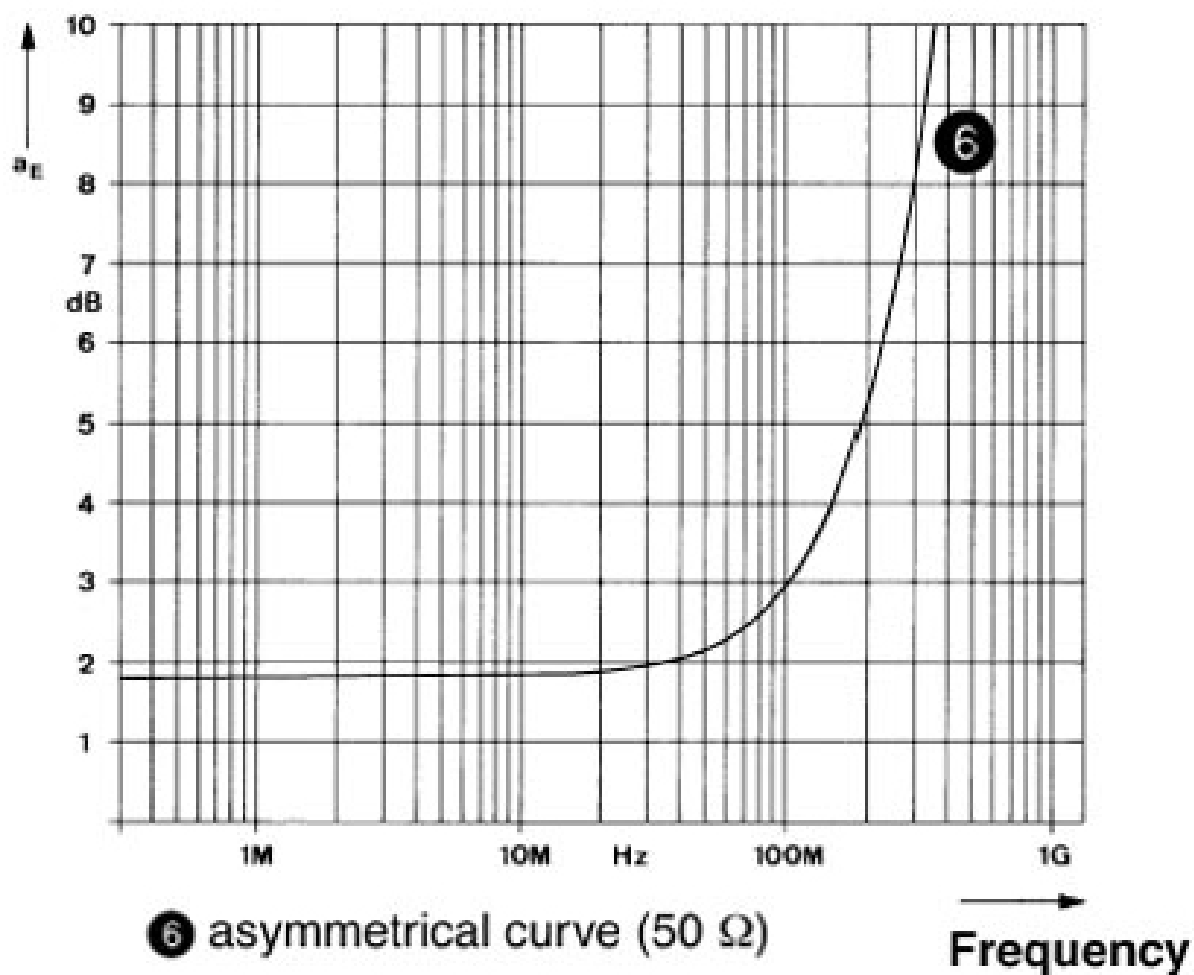
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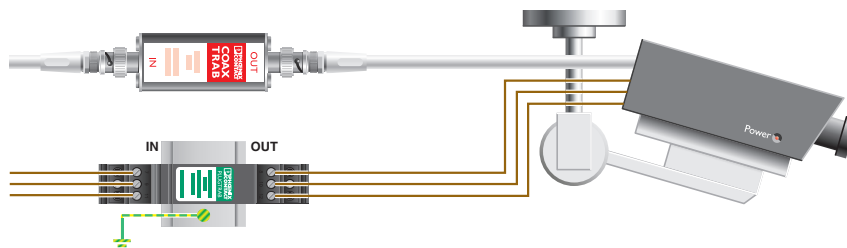
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Diagram



Application drawing



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