

## Surge protection device - CN-UB/E - 2763691

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

RoHS IP20

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 017918 099527 |
| GTIN                                 | 4017918099527                                                                                           |
| Weight per Piece (excluding packing) | 151.550 g                                                                                               |
| Custom tariff number                 | 85363010                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Height | 25.4 mm |
| Width  | 25.4 mm |
| Depth  | 96 mm   |

#### Ambient conditions

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Ambient temperature (operation) | -40 °C ... 80 °C                       |
| Altitude                        | ≤ 2000 m (amsl (above mean sea level)) |
| Degree of protection            | IP20                                   |

#### General

|                      |          |
|----------------------|----------|
| Housing material     | Aluminum |
| Overvoltage category | II       |

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## Technical data

### General

|                     |                                           |
|---------------------|-------------------------------------------|
| Degree of pollution | 2                                         |
| Mounting type       | Connection-specific intermediate plugging |
| Type                | Attachment plug                           |
| Direction of action | Line-Shield/Earth Ground                  |

### Additional descriptions

|      |                                                                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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." |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Protective circuit

|                                                                  |                                  |
|------------------------------------------------------------------|----------------------------------|
| IEC test classification                                          | C2                               |
|                                                                  | C3                               |
|                                                                  | D1                               |
| Maximum continuous voltage $U_C$                                 | 180 V DC                         |
|                                                                  | 130 V AC                         |
| Rated current                                                    | 5 A (25 °C)                      |
| Operating effective current $I_C$ at $U_C$                       | $\leq 1 \mu A$                   |
| Residual current $I_{PE}$                                        | $\leq 2 \mu A$                   |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-earth)      | 5 kA                             |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-shield)     | 5 kA                             |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (shield-earth)    | 5 kA                             |
| Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (line-earth)  | 2.5 kA                           |
| Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (line-shield) | 2.5 kA                           |
| Total discharge current $I_{total}$ (8/20) $\mu s$               | 10 kA                            |
| Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike    | $\leq 470 V$                     |
| Output voltage limitation at 1 kV/ $\mu s$ (line-shield) spike   | $\leq 590 V$                     |
| Output voltage limitation at 1 kV/ $\mu s$ (shield-earth) spike  | $\leq 470 V$                     |
| Output voltage limitation at 1 kV/ $\mu s$ (line-earth) static   | $\leq 33 V$                      |
| Output voltage limitation at 1 kV/ $\mu s$ (line-shield) static  | $\leq 33 V$                      |
| Output voltage limitation at 1 kV/ $\mu s$ (shield-earth) static | $\leq 33 V$                      |
| Residual voltage at $I_n$ (line-earth)                           | $\leq 160 V$ (1.5 m cable)       |
| Residual voltage at $I_n$ (line-shield)                          | $\leq 55 V$                      |
| Residual voltage at $I_n$ (shield-earth)                         | $\leq 160 V$ (1.5 m cable)       |
| Voltage protection level $U_p$ (line-earth)                      | $\leq 500 V$ (C2 - 10 kV / 5 kA) |
| Voltage protection level $U_p$ (line-shield)                     | $\leq 700 V$ (C2 - 10 kV / 5 kA) |
| Voltage protection level $U_p$ (shield-ground)                   | $\leq 500 V$ (C2 - 10 kV / 5 kA) |
| Response time $t_A$                                              | $\leq 100 ns$                    |

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### Technical data

#### Protective circuit

|                                                                 |                                            |
|-----------------------------------------------------------------|--------------------------------------------|
| Input attenuation aE, asym.                                     | typ. 0.1 dB ( $\leq 100$ MHz/50 $\Omega$ ) |
| Cut-off frequency $f_g$ (3 dB), asym. (shield) in 50 Ohm system | typ. 1 GHz                                 |
| Standing wave ratio SWR in a 50 $\Omega$ system                 | typ. 1.2 ( $\leq 200$ MHz)                 |
| Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)     | 300 W (VSWR = 1.1)                         |
|                                                                 | 80 W (VSWR = $\infty$ )                    |
| Capacity asymmetrical (shield)                                  | typ. 7 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                                |

#### Connection data

|                       |                         |
|-----------------------|-------------------------|
| Connection method     | N connector 50 $\Omega$ |
| Connection method IN  | N socket                |
| Connection method OUT | N plug                  |

#### Connection, equipotential bonding

|                   |               |
|-------------------|---------------|
| Connection method | PVC litz wire |
|-------------------|---------------|

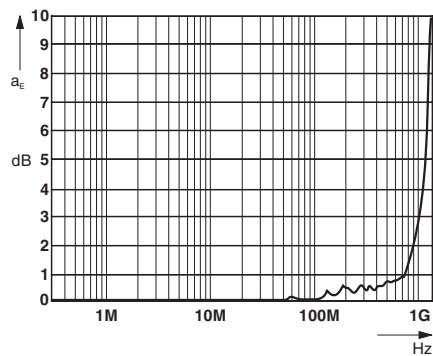
#### Standards and Regulations

|                          |                   |
|--------------------------|-------------------|
| Standards/specifications | IEC 61643-21 2012 |
|                          | EN 61643-21 2013  |

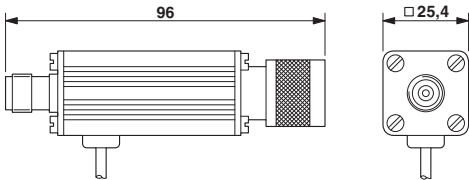
### Drawings

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Diagram

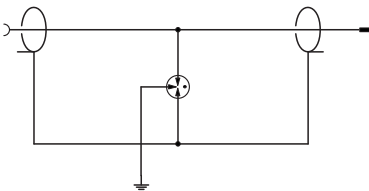


Dimensional drawing



The figure shows the asymmetrical characteristic curve for 50

Circuit diagram



Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27130801 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130800 |
| eCl@ss 6.0 | 27130800 |
| eCl@ss 7.0 | 27130807 |
| eCl@ss 8.0 | 27130807 |
| eCl@ss 9.0 | 27130807 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000943 |
| ETIM 3.0 | EC000943 |
| ETIM 4.0 | EC000943 |
| ETIM 5.0 | EC000943 |
| ETIM 6.0 | EC000943 |

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11     | 39121610 |
| UNSPSC 12.01  | 39121610 |
| UNSPSC 13.2   | 39121620 |

## Approvals

### Approvals

Approvals

EAC / EAC

Ex Approvals

### Approval details

|     |                                                                                     |               |
|-----|-------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|---------------|

|     |                                                                                     |                         |
|-----|-------------------------------------------------------------------------------------|-------------------------|
| EAC |  | RU C-<br>DE.A*30.B01561 |
|-----|-------------------------------------------------------------------------------------|-------------------------|

## Accessories

### Accessories

#### Flange coupling

Connector/Adapter - BNC-V 50 - 2805041



BNC connector, single-level, for mounting on NS 32 or NS 35/7.5, wave impedance: 50 Ohm

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### Accessories

Connector/Adapter - BNC-DV 50 - 2805038



BNC connector, double-level, for mounting on NS 32 or NS 35/7.5, wave impedance: 50 Ohm

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