

# 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

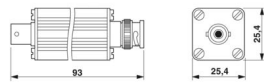
### Product properties

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 $\Omega$
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### 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
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### 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) $\mu\text{s}$ (line-ground)	10 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-shield)	10 kA
Total discharge current $I_{Total}$ (8/20) $\mu\text{s}$	20 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike	$\leq 500 \text{ V}$

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Output voltage limitation at 1 kV/ $\mu$ s (line-shield) spike	$\leq 35$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) static	$\leq 15$ V
Residual voltage at $I_n$ (conductor-shield)	$\leq 10$ V
Voltage protection level $U_p$ (line-earth)	$\leq 500$ V (C1 - 1 kV / 500 A)
	$\leq 500$ V (C3 - 10 A)
Voltage protection level $U_p$ (line-shield)	$\leq 25$ V (C3 - 10 A)
	$\leq 55$ V (C1 - 1 kV / 500 A)
Response time $t_A$ (line-earth)	$\leq 100$ ns
Response time $t_A$ (line-shield)	$\leq 500$ ns
Input attenuation aE, asym.	typ. 2 dB ( $\leq 20$ MHz)
Cut-off frequency $f_g$ (3 dB), asym. (shield) in 50 $\Omega$ 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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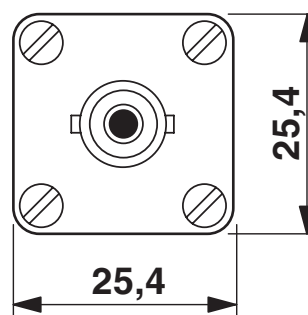
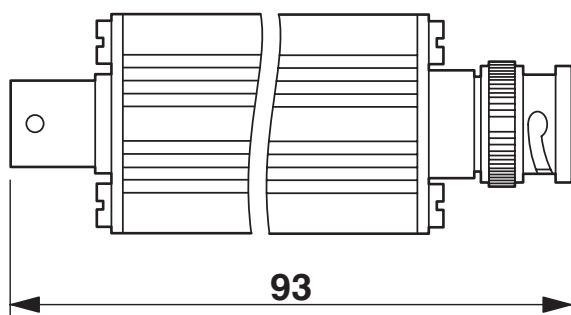
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## Drawings

### Dimensional drawing

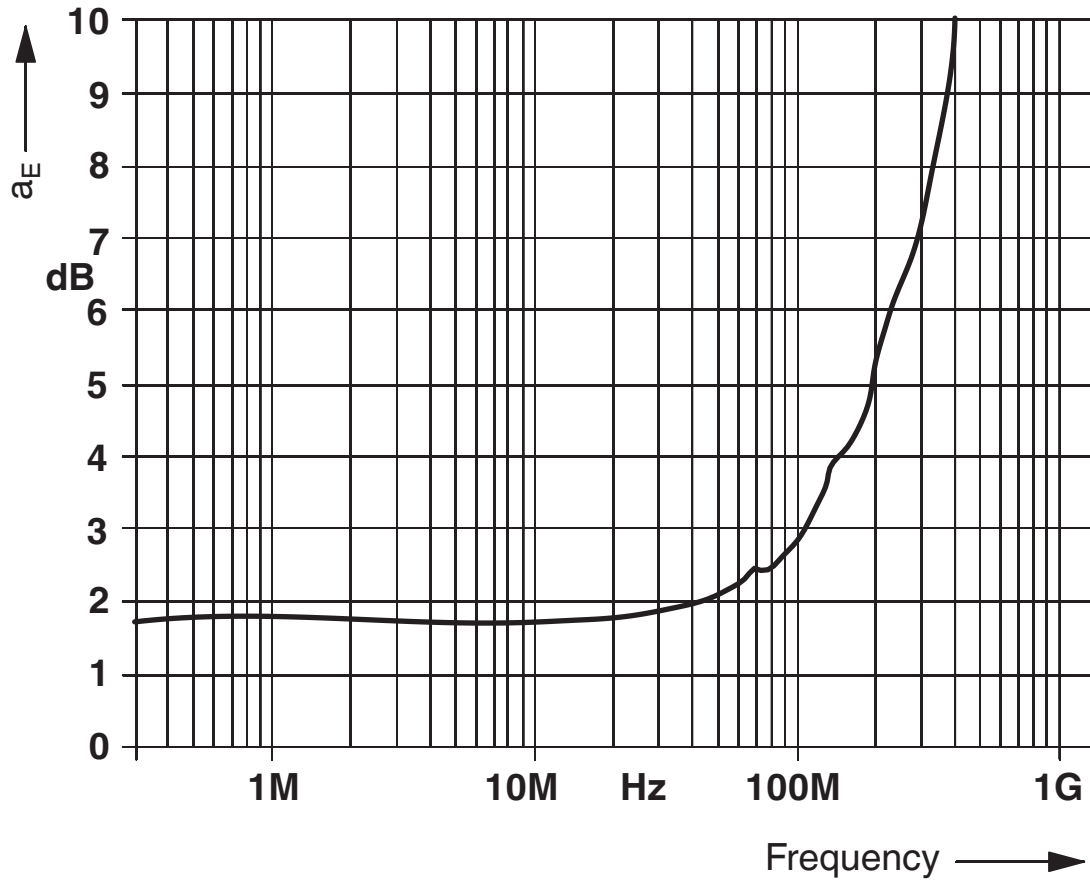


# C-UFB- 5DC/E - Surge protection device

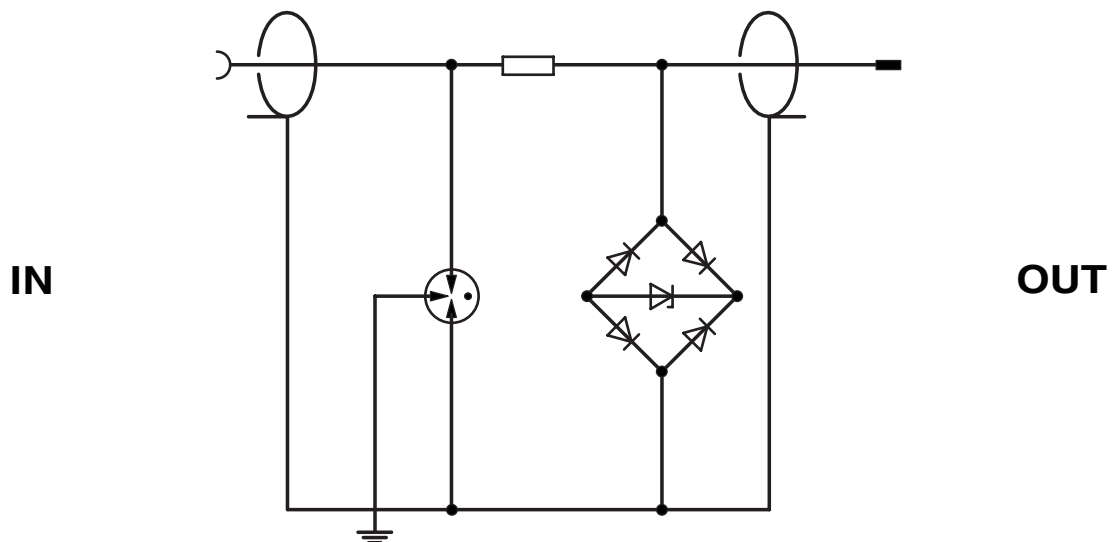
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Diagram



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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