

C-UFB- 5DC/1 - Surge protection device

2782643

<https://www.phoenixcontact.com/us/products/2782643>

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

The figure shows version C-UFB-24DC/1

Commercial data

Item number	2782643
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL25
Product key	CL3313
GTIN	4017918069681
Weight per piece (including packing)	63.1 g
Weight per piece (excluding packing)	6.41 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Type	Intermediate plug

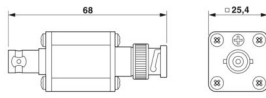
Electrical properties

Nominal voltage U_N	5 V DC
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Connection data

Connection method	BNC 50 Ω
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Dimensions

Dimensional drawing	
Width	25.4 mm
Height	68 mm
Length	25.4 mm

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Shield/Earth Ground
Nominal voltage U_N	5 V DC
Maximum continuous voltage U_C (line-earth)	5 V DC
Nominal current I_N	185 mA (25 °C)
Operating effective current I_C at U_C	$\leq 50 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-signal ground)	10 kA
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 17 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 17 \text{ V}$
Residual voltage at I_n (line-signal ground)	$\leq 29 \text{ V}$
Voltage protection level U_p (line-earth)	$\leq 30 \text{ V}$
Response time t_A (line-earth)	$\leq 1 \text{ ns}$
Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ω system	60 MHz

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Resistance per path	22 Ω
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C

Standards and regulations

VDE requirement class	C2
	C3
	D1

Standards Information technology specification

Standards/regulations	Draft IEC 64644-1
	E VDE 0845-3-1
	Draft IEC 64644-1
	E VDE 0845-3-1

Mounting

Mounting type	Connection-specific intermediate plugging
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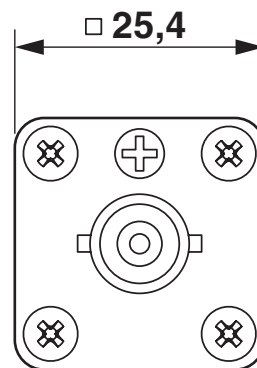
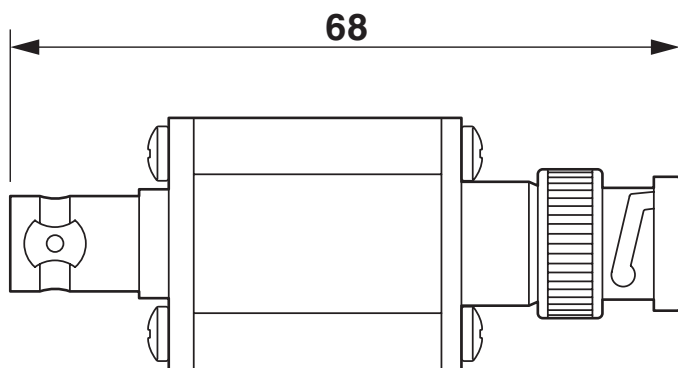
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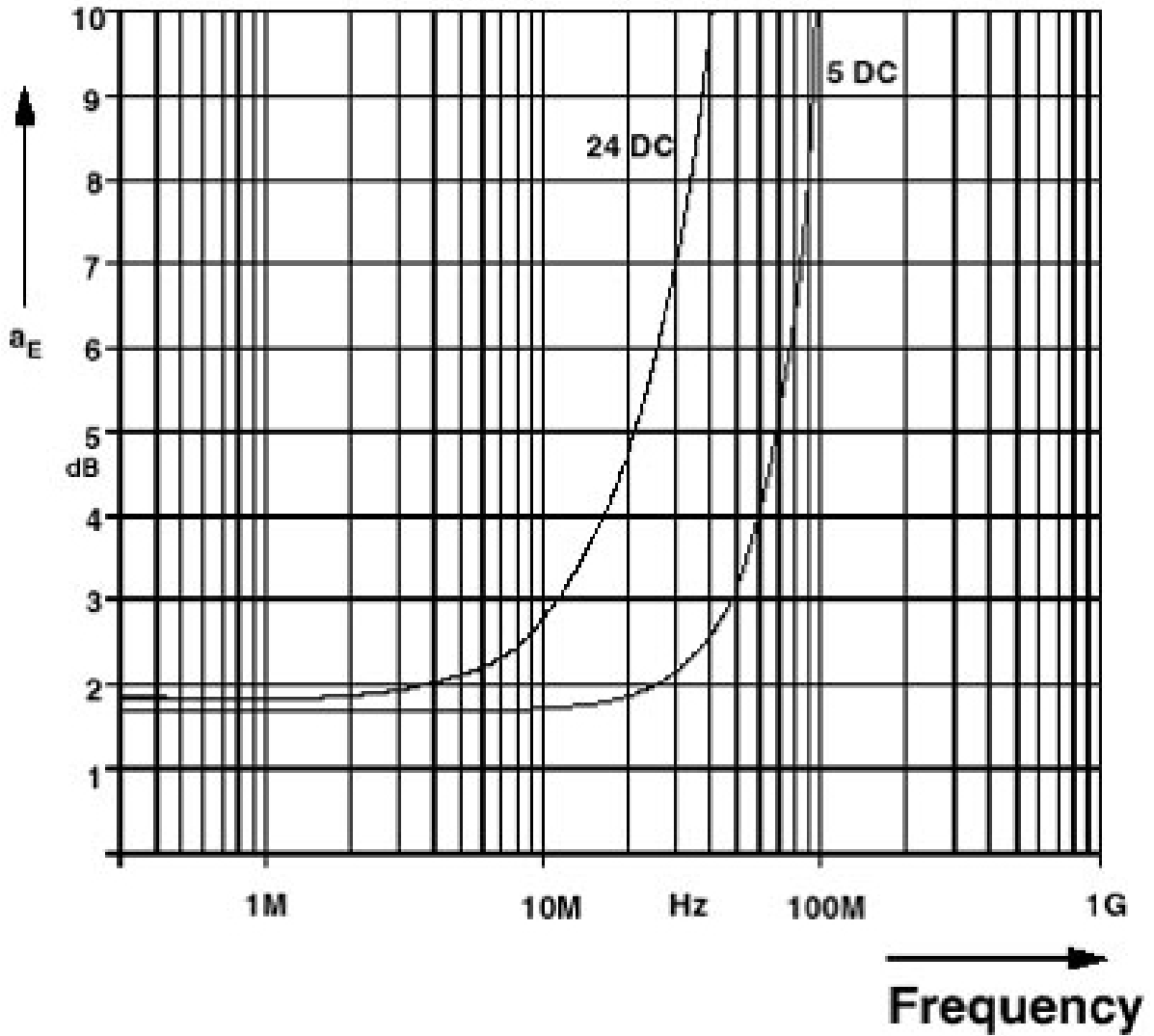


Drawings

Dimensional drawing



Diagram

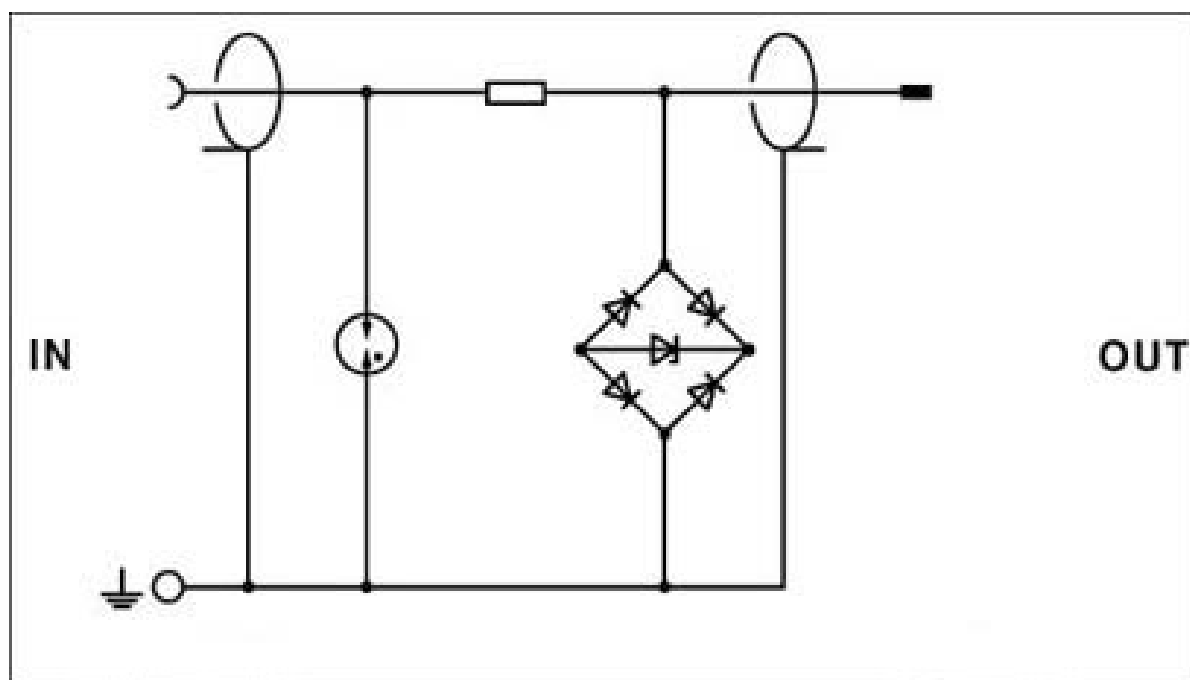


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Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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