

CN-UB/E - Surge protection device



2763691

<https://www.phoenixcontact.com/us/products/2763691>

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

Commercial data

Item number	2763691
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL25
Product key	CL3311
GTIN	4017918099527
Weight per piece (including packing)	154.5 g
Weight per piece (excluding packing)	154.5 g
Customs tariff number	85363010
Country of origin	DE

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2763691

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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."
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Product properties

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

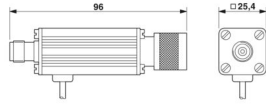
Insulation characteristics

Overvoltage category	II
Pollution degree	2

Connection data

Connection method	N connector 50 Ω
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Dimensions

Dimensional drawing	
Width	25.4 mm
Height	25.4 mm
Depth	96 mm

Material specifications

Color	black (RAL 9005)
Housing material	Aluminum

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

CN-UB/E - Surge protection device



2763691

<https://www.phoenixcontact.com/us/products/2763691>

Direction of action	Line-Shield/Earth Ground
Maximum continuous operating voltage U_C	180 V DC
	130 V AC
Rated current	5 A (25 °C)
Operating effective current I_C at U_C	$\leq 1 \mu\text{A}$
Protective conductor current I_{PE}	$\leq 2 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-ground)	5 kA
Nominal discharge current I_n (8/20) μs (line-shield)	5 kA
Nominal discharge current I_n (8/20) μs (shield-ground)	5 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
Total discharge current I_{Total} (8/20) μs	10 kA
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 470 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 590 \text{ V}$
Output voltage limitation at 1 kV/ μs (shield-ground) spike	$\leq 470 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 33 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-shield) static	$\leq 33 \text{ V}$
Output voltage limitation at 1 kV/ μs (shield-ground) static	$\leq 33 \text{ V}$
Residual voltage at I_n (conductor-ground)	$\leq 160 \text{ V}$ (1.5 m cable)
Residual voltage at I_n (conductor-shield)	$\leq 55 \text{ V}$
Residual voltage at I_n (shield-ground)	$\leq 160 \text{ V}$ (1.5 m cable)
Voltage protection level U_p (line-earth)	$\leq 500 \text{ V}$ (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	$\leq 700 \text{ V}$ (C2 - 10 kV / 5 kA)
Voltage protection level U_p (shield-ground)	$\leq 500 \text{ V}$ (C2 - 10 kV / 5 kA)
Response time t_A	$\leq 100 \text{ ns}$
Input attenuation aE, asym.	typ. 0.1 dB ($\leq 100 \text{ MHz}$ / 50 Ω)
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	typ. 1.20 ($\leq 200 \text{ MHz}$)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	300 W (VSWR = 1.1)
	80 W (VSWR = ∞)
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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

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2763691

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Altitude	≤ 2000 m (amsl)
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Standards and regulations

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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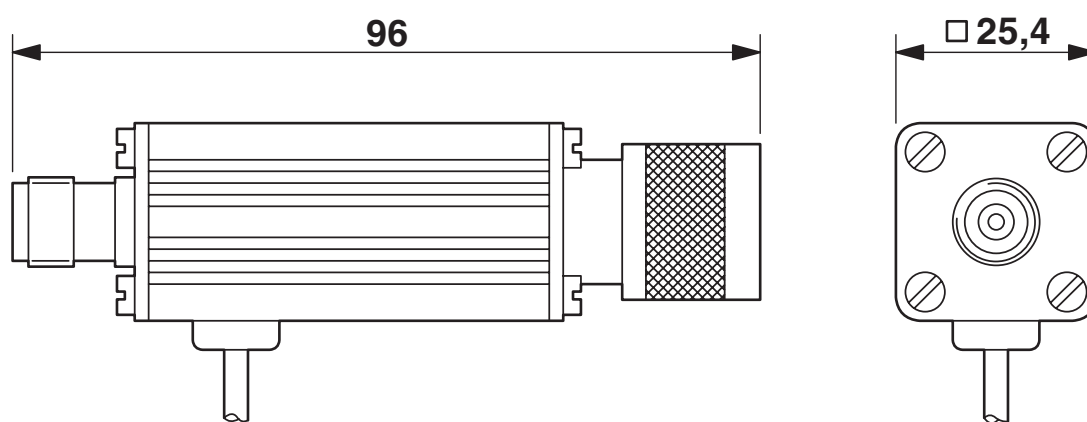
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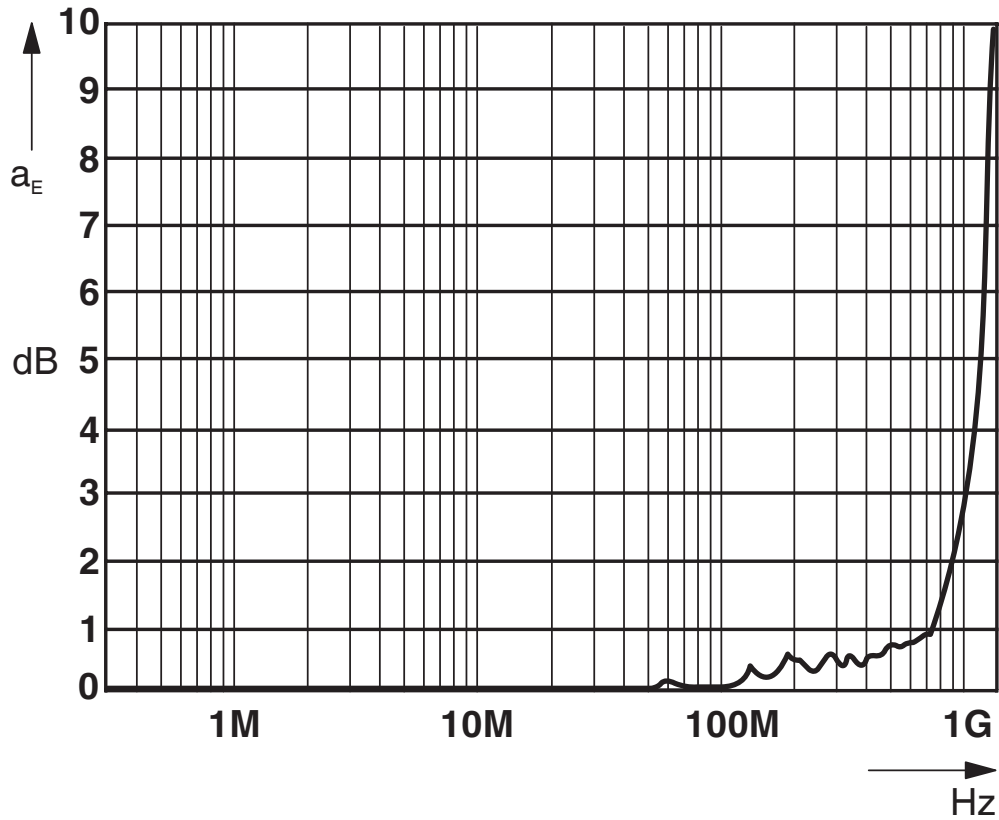


Drawings

Dimensional drawing

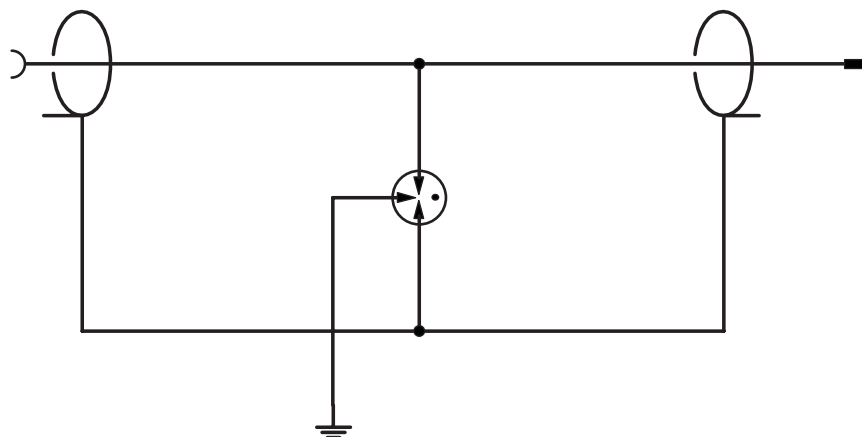


Diagram



The figure shows the asymmetrical characteristic curve for 50

Circuit diagram



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Classifications

ECLASS

ECLASS-13.0

27171504

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	6(c)

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	57f684dc-40e0-489f-b4ef-8331338a55c5

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com