

CN-UB/E-BB - Surge protection device



2817686
<https://www.phoenixcontact.com/pc/products/2817686>

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

Commercial data

Item number	2817686
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL3311
Catalog page	Page 201 (C-4-2019)
GTIN	4017918148584
Weight per piece (including packing)	138.3 g
Weight per piece (excluding packing)	117.26 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
VDE requirement class	C2
	C3
	D1
Type	Attachment 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

Width	25.4 mm
Height	83 mm
Depth	25.4 mm

Material specifications

Color	black (RAL 9005)
	Copper
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 voltage U_C	180 V DC
	130 V AC
Maximum continuous voltage U_C (line-earth)	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) μs (line-ground)	5 kA

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Nominal discharge current I_n (8/20) μ s (line-shield)	5 kA
Nominal discharge current I_n (8/20) μ s (shield-ground)	5 kA
Total discharge current I_{total} (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	100 A
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 470 V
Output voltage limitation at 1 kV/ μ s (line-shield) spike	≤ 590 V
Output voltage limitation at 1 kV/ μ s (shield-ground) spike	≤ 470 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 470 V
	≤ 33 V
Output voltage limitation at 1 kV/ μ s (shield-ground) static	≤ 33 V
Residual voltage at I_n (conductor-ground)	≤ 160 V (1.5 m cable)
Residual voltage at I_n (conductor-shield)	≤ 55 V
Residual voltage at I_n (shield-ground)	≤ 160 V (1.5 m cable)
Voltage protection level U_p (line-earth)	≤ 500 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	≤ 700 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (shield-ground)	≤ 500 V (C2 - 10 kV / 5 kA)
Response time t_A (line-earth)	≤ 100 ns
Response time t_A (line-shield)	≤ 100 ns
Response time t_A (shield-ground)	≤ 100 ns
Input attenuation aE, asym.	0.1 dB (≤ 100 MHz)
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	≤ 1.20 (200 MHz)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	300 W (at SWR = 1.1 in a 50 Ω system)
	80 W (VSWR = ∞)
Capacity asymmetrical (shield)	7 pF (typical)
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA
Impulse durability (shield-ground)	C2 - 10 kV/5 kA
	D1 - 2.5 kA

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

VDE requirement class	C2
	C3
	D1

Air clearances and creepage distances

Standards/regulations	DIN VDE 0110-1 / IEC 60664-1
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Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2002

Mounting

Mounting type	Connection-specific intermediate plugging
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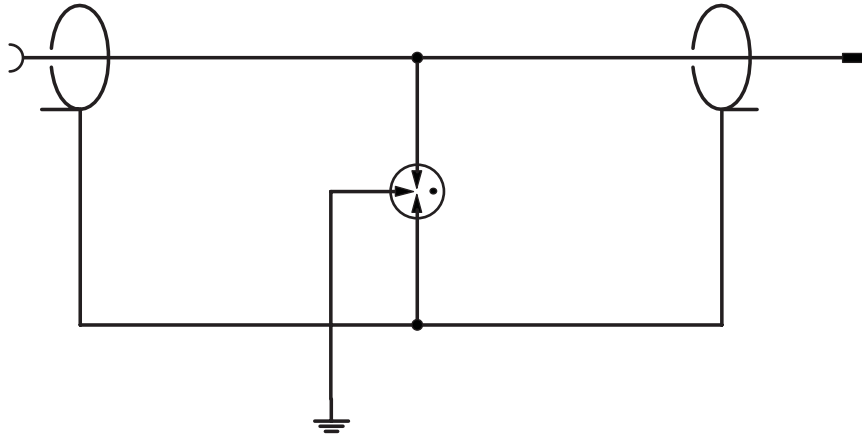


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Drawings

Circuit diagram



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Approvals

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EAC

Approval ID: RU C-DE.*09.B.00169

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943
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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	48ca1d93-5cc9-4fbc-a9a9-a7fb359c9eb7

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Accessories

BNC-V 50 - Plug/adaptor

2805041

<https://www.phoenixcontact.com/pc/products/2805041>



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

BNC-DV 50 - Plug/adaptor

2805038

<https://www.phoenixcontact.com/pc/products/2805038>



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

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