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CN-UB-280DC-3-SB - Surge protection device

2801051

https://www.phoenixcontact.com/gb/products/2801051

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

Your advantages

- For outdoor installations
- Mounting plate enables mounting, e.g., in a control cabinet
- Replaceable, gas-filled arrester
- Installed as surge protection between antenna and wireless module

Commercial data

Item number	2801051
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL3311
Product key	CL3311
Catalog page	Page 200 (C-4-2019)
GTIN	4046356675734
Weight per piece (including packing)	163.7 g
Weight per piece (excluding packing)	145 g
Customs tariff number	85363010
Country of origin	CN

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Technical data

Product properties

Product type	Surge protection for transceiver systems
IEC test classification	C2
	C3
	D1
Type	Attachment plug
Number of positions	1
Surge protection fault message	none

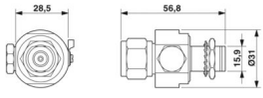
Insulation characteristics

Overvoltage category	III
Pollution degree	2

Connection data

Connection method	N connector 50 Ω

Dimensions

Dimensional drawing	
Width	31 mm
Height	33.5 mm
Length	56.8 mm

Material specifications

Color	Nickel
	black (RAL 9005)
Housing material	HPb59-1
Housing surface material	Cu-Sn-Zn
Contact surface material	Au
Inner conductor material	QSn6.5-0.1
Inner conductor surface material	Gold
Insulation body material	PTFE
Spring contact material	QSn6.5-0.1

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Direction of action	Line-Shield/Earth Ground

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Maximum continuous voltage U_C	280 V DC
Maximum continuous voltage U_C (line-earth)	280 V DC
Rated current	5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 µA
Nominal discharge current I_n (8/20) µs (line-ground)	20 kA
Nominal discharge current I_n (8/20) µs (line-shield)	20 kA
Pulse discharge current I_{imp} (10/350) µs	2.5 kA
Total surge current (10/350) µs	2.5 kA
Total discharge current I_{total} (8/20) µs	20 kA
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	20 kA
Max. discharge current I_{max} (8/20) µs maximum (line-shield)	20 kA
Nominal pulse current Ian (10/1000) µs (line-shield)	100 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 900 V
Output voltage limitation at 1 kV/µs (line-shield) spike	≤ 900 V
Voltage protection level U_p (line-earth)	≤ 900 V (C1 - 1 kV / 500 A)
	≤ 1.1 kV (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	≤ 900 V (C1 - 1 kV / 500 A)
	≤ 1.1 kV (C2 - 10 kV / 5 kA)
Response time t_A (line-earth)	≤ 100 ns
Response time tA (line-shield)	≤ 100 ns
Input attenuation aE, asym.	typ. 0.1 dB (≤ 3 GHz)
Cut-off frequency fg (3 dB), asym. (shield) in 50 Ω system	> 3 GHz
Frequency range	0 Hz ... 3 GHz
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.15 (≤ 3 GHz)
	max. 1.20
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	700 W (VSWR = 1.1)
	200 W (VSWR = ∞)
Capacity (Core-Earth)	typ. 1.5 pF
Capacity asymmetrical (shield)	typ. 1.5 pF
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 2.5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP55
Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	2000 m

Standards and regulations

Air clearances and creepage distances

Standards/regulations	IEC 60664-1

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Standards/specifications	IEC 61643-21/A1
Note	2008
Standards/specifications	EN 61643-21/A1
Note	2009

Mounting

Mounting type	Connection-specific intermediate plugging

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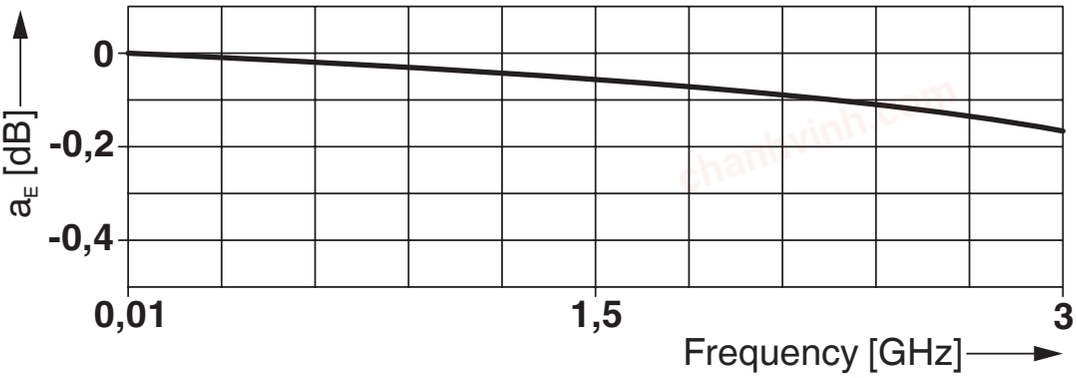
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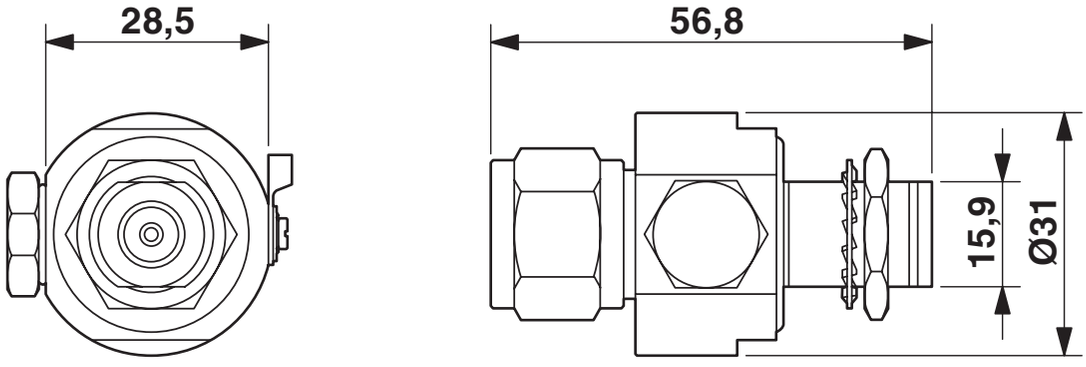
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Drawings

Diagram



Dimensional drawing



Dimensional drawing
CN-UB-280DC-3-SB

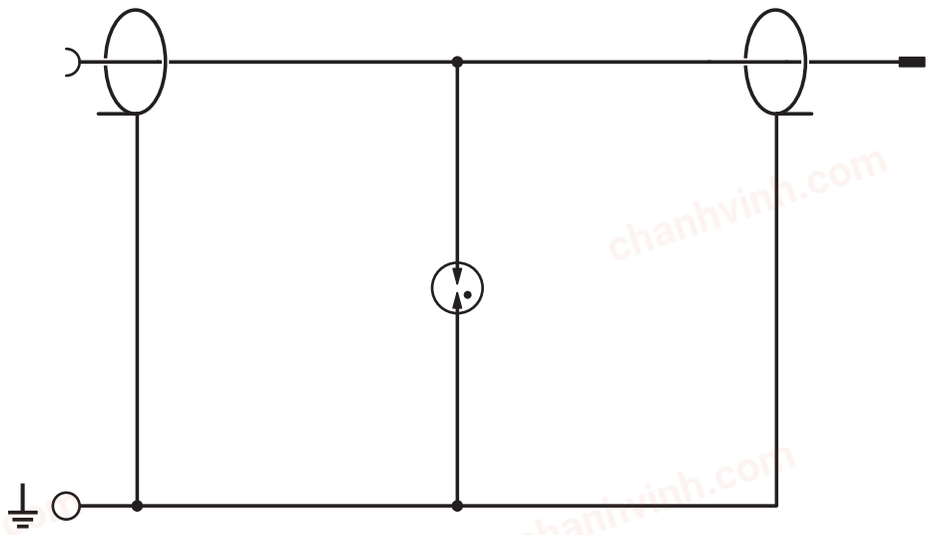
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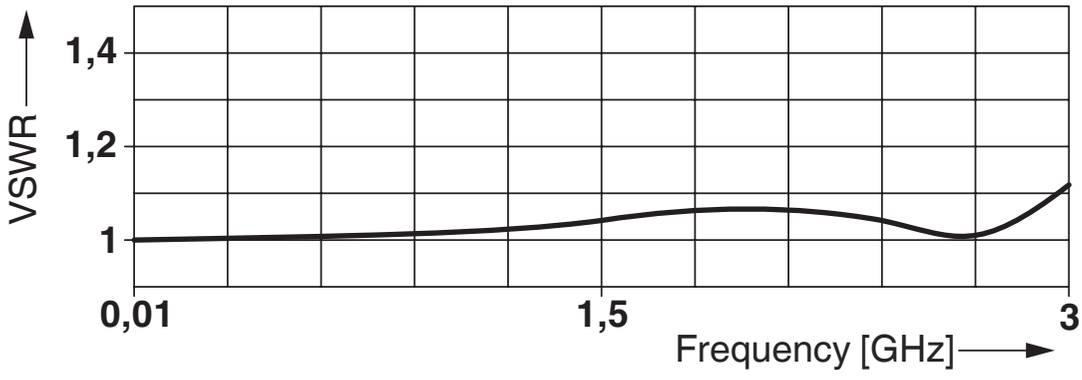
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Circuit diagram



Diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2801051

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

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	b6cd5d6a-c359-418b-b9f9-8cccb5b23e76

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Accessories

CN-UB/MP - Mounting panel

2818135

https://www.phoenixcontact.com/gb/products/2818135

Tongue for attaching the CN-UB..., to housing panels, for example.



CN-UB/MP-90DEG-50 - Mounting panel

2803137

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Angled bracket for individually fixing CN-UB... to housing panels, for example.



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CN-UB-G1 - Gas discharge tube

2818203

https://www.phoenixcontact.com/gb/products/2818203



Reserve gas-filled surge arrester for CN-UB-280DC...

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