

## Surge protection device - CN-UB-280DC-3-BB - 2801050

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

### Product Features

- 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



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	180.0 g
Custom tariff number	85363010
Country of origin	China

### Technical data

#### Dimensions

Height	57.8 mm
Width	31 mm
Depth	33.5 mm
Length	33.5 mm

#### Ambient conditions

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

#### General

Housing material	HPb59-1
Color	nickel

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### Technical data

#### General

Standards for clearances and creepage distances	IEC 60664-1
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Number of positions	1
Direction of action	Line-Shield/Earth Ground

#### Protective circuit

IEC test classification	C2
	C3
	D1
Maximum continuous voltage $U_C$	280 V DC
Maximum continuous voltage $U_C$ (wire-ground)	280 V DC
Nominal current $I_N$	5 A (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 1 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	20 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	20 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Shield)	20 kA
Total surge current (8/20) $\mu\text{s}$	20 kA
Total surge current (10/350) $\mu\text{s}$	2.5 kA
Max. discharge current $I_{\text{max}}$ (8/20) $\mu\text{s}$	20 kA
Max. discharge current $I_{\text{max}}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	20 kA
Max. discharge current $I_{\text{max}}$ (8/20) $\mu\text{s}$ maximum (Core-Shield)	20 kA
Nominal pulse current $I_{\text{an}}$ (10/1000) $\mu\text{s}$ (Core-Shield)	100 A
Impulse discharge current (10/350) $\mu\text{s}$ , peak value $I_{\text{imp}}$	2.5 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 900 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Shield) spike	$\leq 900 \text{ V}$
Voltage protection level $U_p$ (core-ground)	$\leq 1.1 \text{ kV}$ (C2 - 10 kV / 5 kA)
	$\leq 900 \text{ V}$ (C1 - 1 kV/500 A)
Voltage protection level $U_p$ (core-shield)	$\leq 900 \text{ V}$ (C1 - 1 kV/500 A)
	$\leq 1.1 \text{ kV}$ (C2 - 10 kV / 5 kA)
Response time $t_A$ (Core-Earth)	$\leq 100 \text{ ns}$
Response time $t_A$ (Core-GND)	$\leq 100 \text{ ns}$
Input attenuation $a_E$ , asym.	typ. 0.1 dB ( $\leq 3 \text{ GHz}$ )
Cut-off frequency $f_g$ (3 dB), asym. (shield) in 50 Ohm system	$> 3 \text{ GHz}$
Frequency range	0 Hz ... 3 GHz
Standing wave ratio SWR in a 50 $\Omega$ system	typ. 1.15 ( $\leq 3 \text{ GHz}$ )
	max. 1.2

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### Technical data

#### Protective circuit

Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	700 W (VSWR = 1.1)
	200 W (VSWR = $\infty$ )
Capacity (Core-Earth)	typ. 1.5 pF
Capacity asymmetrical (shield)	typ. 1.5 pF
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 2,5 kA

#### Connection data

Connection method	N connector 50 $\Omega$
Connection type IN	N connector, female
Connection type OUT	N connector, female

### Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

#### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

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## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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Approvals submitted

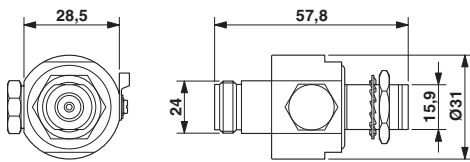
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## Approval details

EAC

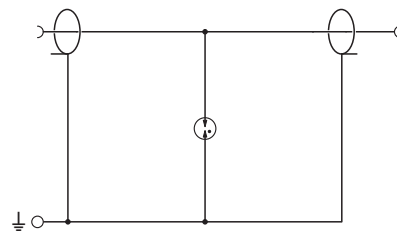
## Drawings

Dimensional drawing



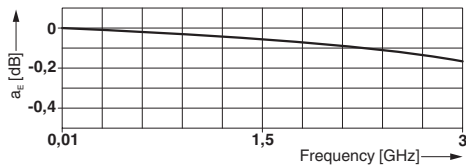
Dimensional drawing  
CN-UB-280DC-3-BB

Circuit diagram

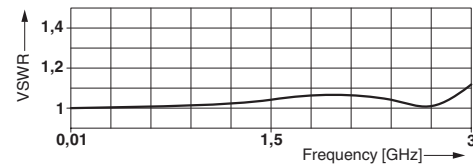


Circuit diagram

Diagram



Diagram



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Application drawing

