

Surge protection device - CN-UB-280DC-SB - 2818148

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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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 148379
GTIN	4017918148379

Technical data

Dimensions

Height	25 mm
Width	25 mm
Depth	72 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Degree of protection	IP55

General

Housing material	Nickel-plated brass
Overvoltage category	III
Degree of pollution	2

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Technical data

General

Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Shield/Earth Ground

Additional descriptions

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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Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Maximum continuous voltage U_C	280 V DC
	195 V AC
Rated current	5 A (25 °C)
Operating effective current I_C at U_C	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (line-earth)	20 kA
Nominal discharge current I_n (8/20) μs (line-shield)	20 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	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 I_{an} (10/1000) μs (line-earth)	100 A
Nominal pulse current I_{an} (10/1000) μs (line-shield)	100 A
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 900 V$
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 900 V$
Voltage protection level U_p (line-earth)	$\leq 900 V$ (C1 - 1 kV/500 A)
	$\leq 1.1 kV$ (C2 - 10 kV / 5 kA)
	$\leq 1 kV$ (C3 - 25 A)
Voltage protection level U_p (line-shield)	$\leq 900 V$ (C1 - 1 kV/500 A)
	$\leq 1.1 kV$ (C2 - 10 kV / 5 kA)
	$\leq 1 kV$ (C3 - 25 A)
Response time t_A	$\leq 100 ns$
Input attenuation aE, asym.	typ. 0.1 dB ($\leq 1.2 GHz$ / 50 Ω)
	typ. 0.2 dB ($\leq 2.2 GHz$ / 50 Ω)
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ω system	$> 3 GHz$
Standing wave ratio SWR in a 50 Ω system	typ. 1.1 ($\leq 2 GHz$)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	700 W (VSWR = 1.1)

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Technical data

Protective circuit

	200 W (VSWR = ∞)
Capacity	typ. 1.5 pF
Surge protection fault message	none
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 2.5 kA
Impulse durability (line-shield)	C1 - 1 kV / 500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 2.5 kA

Connection data

Connection method	N connector 50 Ω
Connection method IN	N connector, male
Connection method OUT	N connector, female

Standards and Regulations

Standards/specifications	IEC 61643-21 2000 + A1:2008
	EN 61643-21 2001 + A1:2009

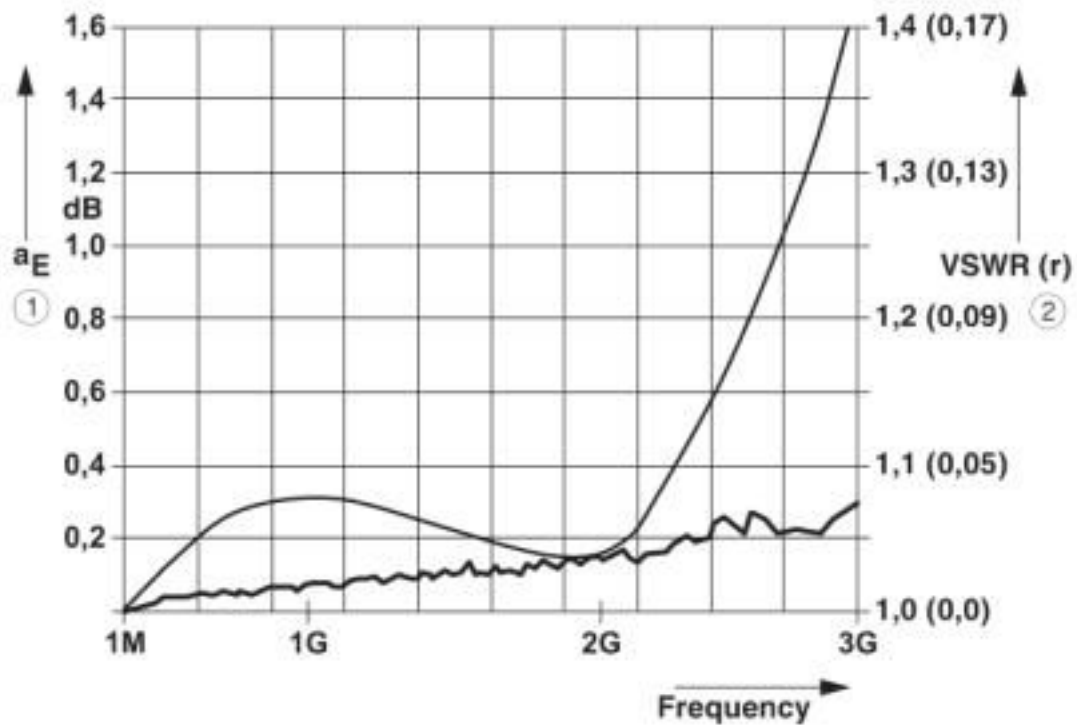
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

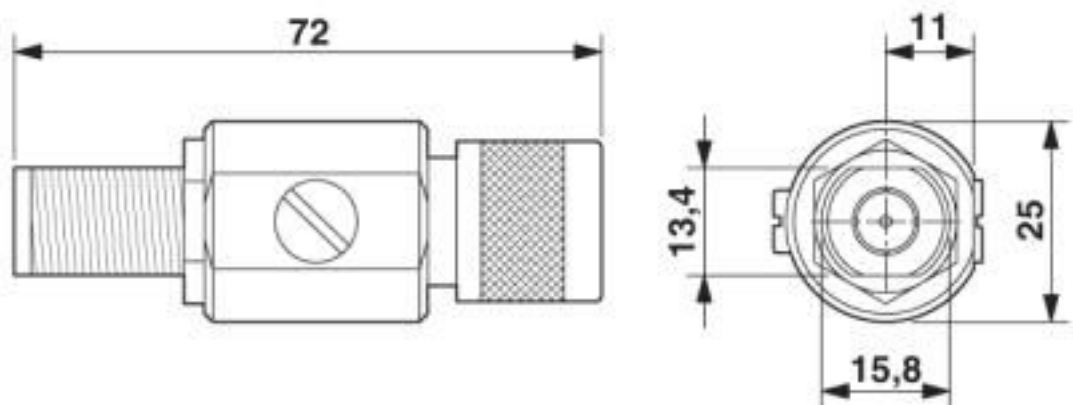
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Diagram



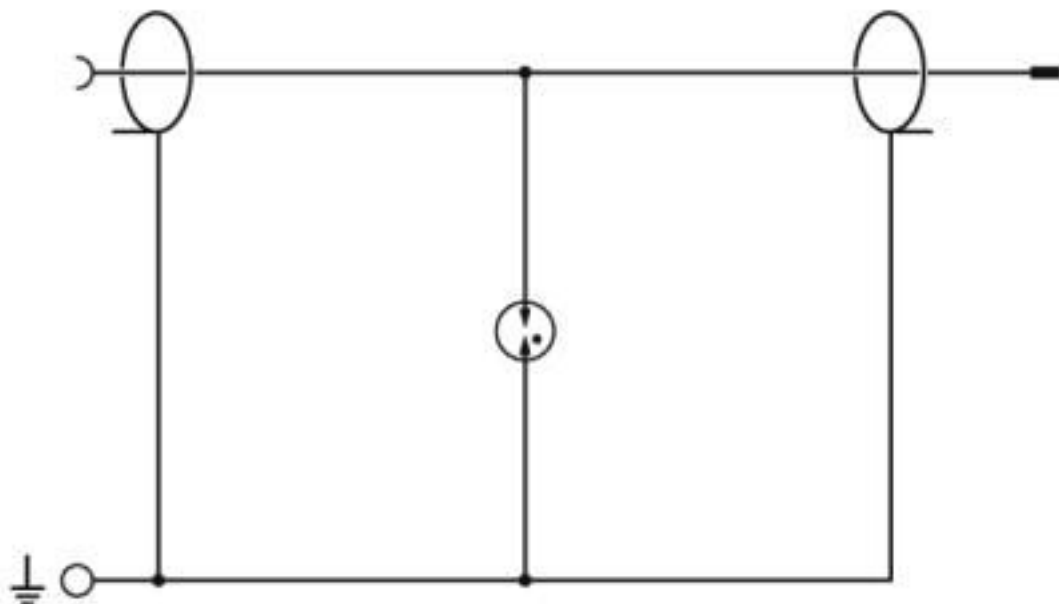
- ① Typical attenuation curve for CN-UB-280DC...
- ② Typical VSWR at CN-UB-280DC...

Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
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
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610

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Classifications

UNSPSC

UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

UL Listed / UL Listed / EAC / EAC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 362540
Nominal voltage UN	280 V		
Nominal current IN	5 A		

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
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EAC		EAC-Zulassung
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EAC		RU C- DE.*09.B.00169
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Accessories

Accessories

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Accessories

Assembly adapter

Mounting plate - CN-UB/MP - 2818135



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

Mounting plate - CN-UB/MP-90DEG-50 - 2803137



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

Additional products

Mounting plate - CN-UB/MP - 2818135



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

Spare parts

Gas-filled surge arrester - CN-UB-G1 - 2818203



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

Mouser Electronics

Authorized Distributor

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