

Surge protection device - CN-UB-280DC-BB - 2818850

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

Your advantages

- ✓ Easy installation with system-compliant connection
- ✓ Use under extreme ambient conditions with robust design
- ✓ Service-friendly with replaceable protective components



Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 164027
GTIN	4017918164027

Technical data

Dimensions

Height	25 mm
Width	25 mm
Depth	67 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
Mounting type	Connection-specific intermediate plugging

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Technical data

General

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 ($\leq 1.2 GHz / 50 \Omega$)
	typ. 0.2 dB ($\leq 2.2 GHz / 50 \Omega$)
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ohm 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)
	200 W (VSWR = ∞)

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Technical data

Protective circuit

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, female
Connection method OUT	N connector, female

Standards and Regulations

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

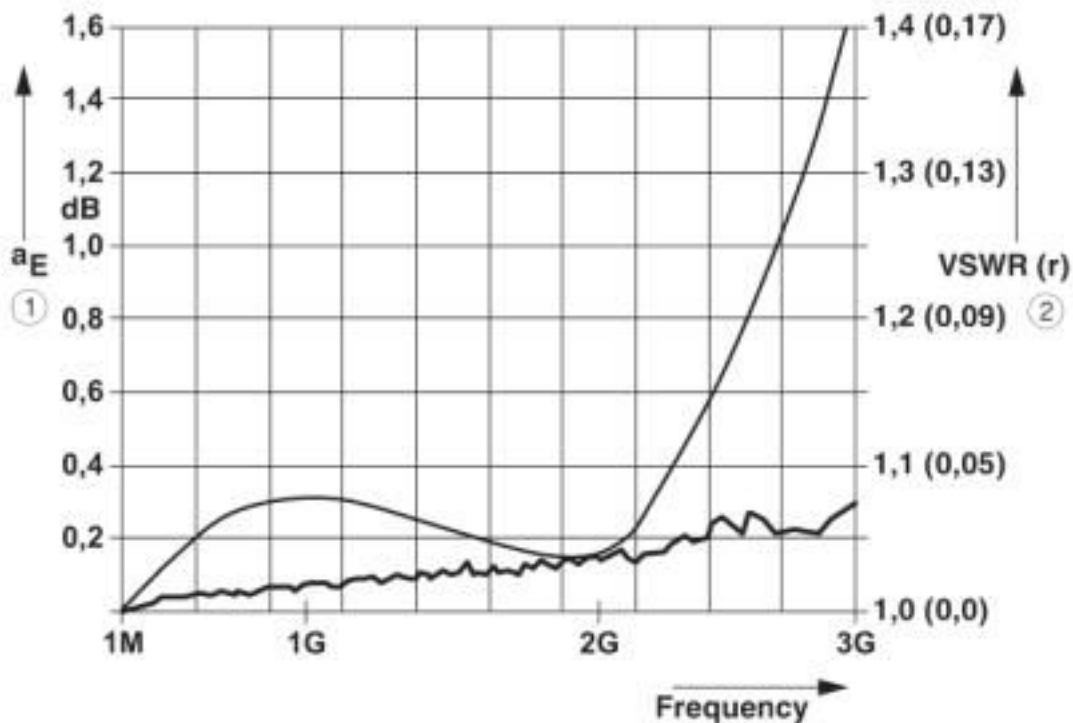
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

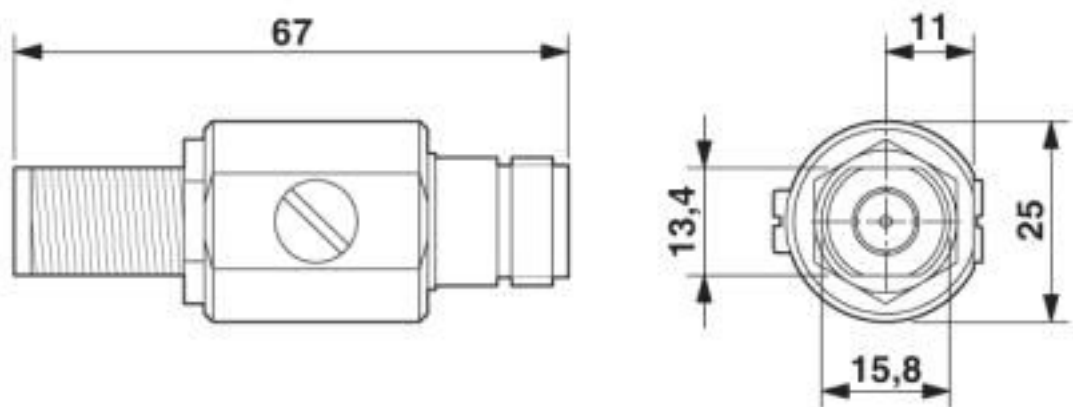
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Diagram



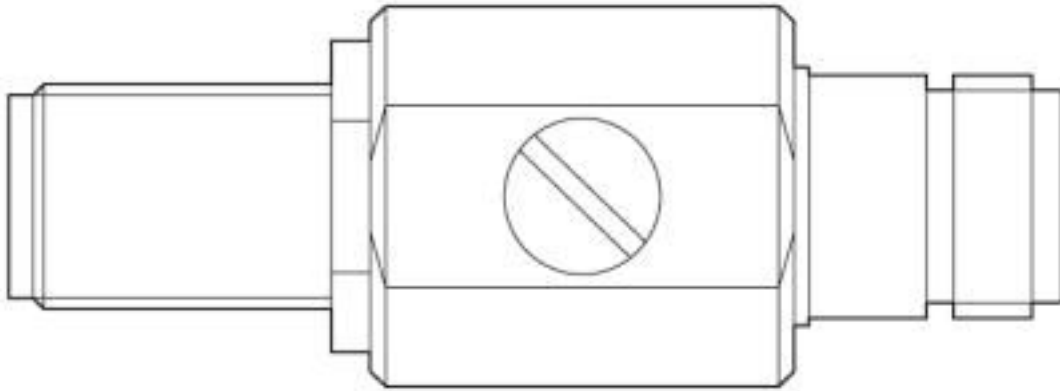
- ① Typical attenuation curve for CN-UB-280DC...
- ② Typical VSWR at CN-UB-280DC...

Dimensional drawing

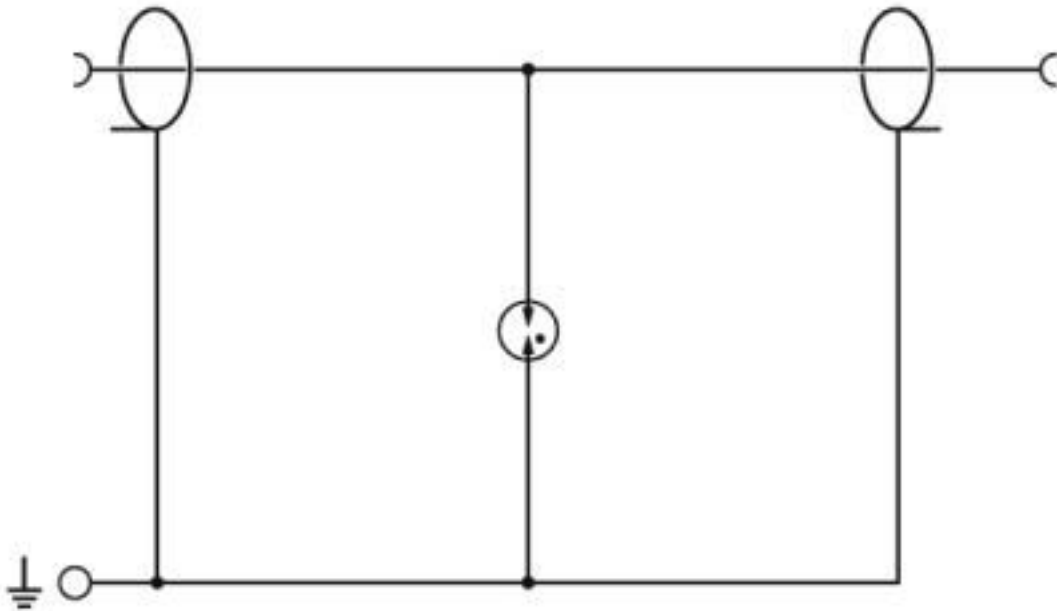


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Product drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 11.0	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

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Classifications

eCl@ss

eCl@ss 9.0	27130807
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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
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

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		

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Approvals

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

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.

Spare parts

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



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

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