

Surge protection device - CN-UB-70DC-6-BB - 2803166

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Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, female/female

Product Features

- Mounting plate enables mounting, e.g., in a control cabinet



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	50.0 g
Custom tariff number	85363010
Country of origin	United States

Technical data

Dimensions

Height	24 mm
Width	24 mm
Depth	47 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 90 °C
Degree of protection	IP68

General

Housing material	Brass (CuZn)
Color	nickel
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
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	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Maximum continuous voltage U_C	70 V DC
	50 V AC
Maximum continuous voltage U_C (wire-ground)	70 V DC
	50 V AC
Nominal current I_N	10 A
Operating effective current I_C at U_C	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs	5 kA
Nominal discharge current I_n (8/20) μs (Core-Earth)	5 kA
Nominal discharge current I_n (8/20) μs (Core-Shield)	5 kA
Total surge current (8/20) μs	5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	10 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Shield)	10 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Shield)	100 A
Impulse discharge current (10/350) μs , peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (Core-Shield) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (Core-Shield) static	$\leq 650 V$
Voltage protection level U_p (core-ground)	$\leq 800 V$ (C2 - 4 kV/2 kA)
	$\leq 1 kV$ (C2 - 10 kV/5 kA)
Voltage protection level U_p (core-shield)	$\leq 800 V$ (C2 - 4 kV/2 kA)
	$\leq 1 kV$ (C2 - 10 kV/5 kA)
Response time t_A (Core-Earth)	$\leq 100 ns$

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Protective circuit

Response time t_A (Core-GND)	≤ 100 ns
Input attenuation a_E , asym.	0.1 dB (6 GHz)
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ohm system	> 6 GHz
Frequency range	0 Hz ... 6 GHz
Standing wave ratio SWR in a 50 Ω system	typ. 1.15 (6 GHz)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	30 W (VSWR = 1.15)
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 - 1 kA
Impulse durability (conductor-shield)	C2 - 10 kV/5 kA C3 - 100 A D1 (1 kA)
Alternating current carrying capacity (conductor-shield)	5 A - 1 s

Connection data

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

Standards and Regulations

Standards/regulations	IEC 61643-21
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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
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Classifications

ETIM

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

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approvals submitted

Approval details

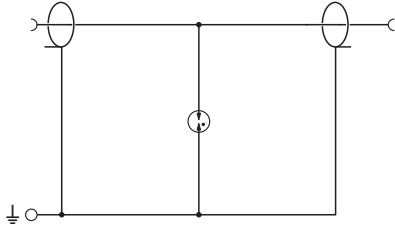
EAC

EAC

Drawings

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Circuit diagram



Dimensional drawing

