

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



2818148

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

Your advantages

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

Commercial data

Item number	2818148
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL3311
Catalog page	Page 475 (C-8-2013)
GTIN	4017918148379
Weight per piece (including packing)	146.1 g
Weight per piece (excluding packing)	145.8 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Notes

General	
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."

Product properties

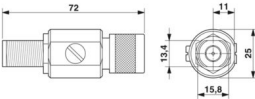
IEC test classification	C1
	C2
	C3
	D1
Type	Attachment plug
Product type	Surge protection for transceiver systems
Surge protection fault message	none

Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Connection data

Connection method	N connector 50 Ω
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Dimensions

Dimensional drawing	
Width	25 mm
Height	25 mm
Depth	72 mm

Material specifications

Color	Nickel
	Copper
Seal material	Silicon
Housing surface material	Nickel
Contact surface material	Au
Housing material	Nickel-plated brass
Inner conductor material	CuZn
Inner conductor surface material	Gold
Insulation body material	PTFE

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Spring contact material	CuSn
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Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Shield/Earth Ground
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-ground)	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	$> 3 GHz$
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.10 ($\leq 2 GHz$)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	700 W (VSWR = 1.1)
	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

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	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 (amsl)

Standards and regulations

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

Mounting

Mounting type	Connection-specific intermediate plugging
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