

C-UFB-24DC - Surge protection device

2797861

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Attachment plug with surge voltage coarse and fine protection, for coaxial signal interfaces, signal voltage 24 V. Connection: BNC socket/plug

The figure shows version C-UFB-5DC

Commercial data

Item number	2797861
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL25
Product key	CL3313
GTIN	4017918073541
Weight per piece (including packing)	87.79 g
Weight per piece (excluding packing)	85.73 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

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

Connection data

Connection method	BNC 50 Ω
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Dimensions

Width	25.4 mm
Height	93 mm
Length	25.4 mm

Material specifications

Housing material	Aluminum
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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 operating voltage U_C	30 V DC
Maximum continuous voltage U_C (line-earth)	30 V DC
Nominal current I_N	185 mA (25 °C)
Operating effective current I_C at U_C	$\leq 10 \mu\text{A}$
Protective conductor current I_{PE}	$\leq 10 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-ground)	10 kA
Nominal discharge current I_n (8/20) μs (line-shield)	10 kA
Total surge current (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	10 kA
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 65 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 65 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 45 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-shield) static	$\leq 45 \text{ V}$
Residual voltage at I_n (conductor-ground)	$\leq 45 \text{ V}$
Residual voltage at I_n (conductor-shield)	$\leq 45 \text{ V}$
	$\leq 120 \text{ V}$ (C2 - 10 kV / 5 kA)

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Voltage protection level U_p (line-earth)	≤ 85 V (C1 - 1 kV / 500 A)
	≤ 60 V (C3 - 10 A)
Voltage protection level U_p (line-shield)	≤ 120 V (C2 - 10 kV / 5 kA)
	≤ 60 V (C3 - 10 A)
	≤ 85 V (C1 - 1 kV / 500 A)
Voltage protection level U_p static (line-earth)	≤ 50 V (C1 - 1 kV / 500 A)
	≤ 70 V (C2 - 10 kV / 5 kA)
Response time t_A (line-earth)	≤ 500 ns
Response time t_A (line-shield)	≤ 500 ns
Input attenuation aE, asym.	2 dB (≤ 10 MHz)
Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ω system	typ. 90 MHz
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ω system	typ. 90 MHz
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

Standards and regulations

Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

Air clearances and creepage distances

Standards/regulations	VDE 0110-1 / IEC 60664-1
Standards/specifications	IEC 61643-21
Note	2000

Mounting

Mounting type	Connection-specific intermediate plugging
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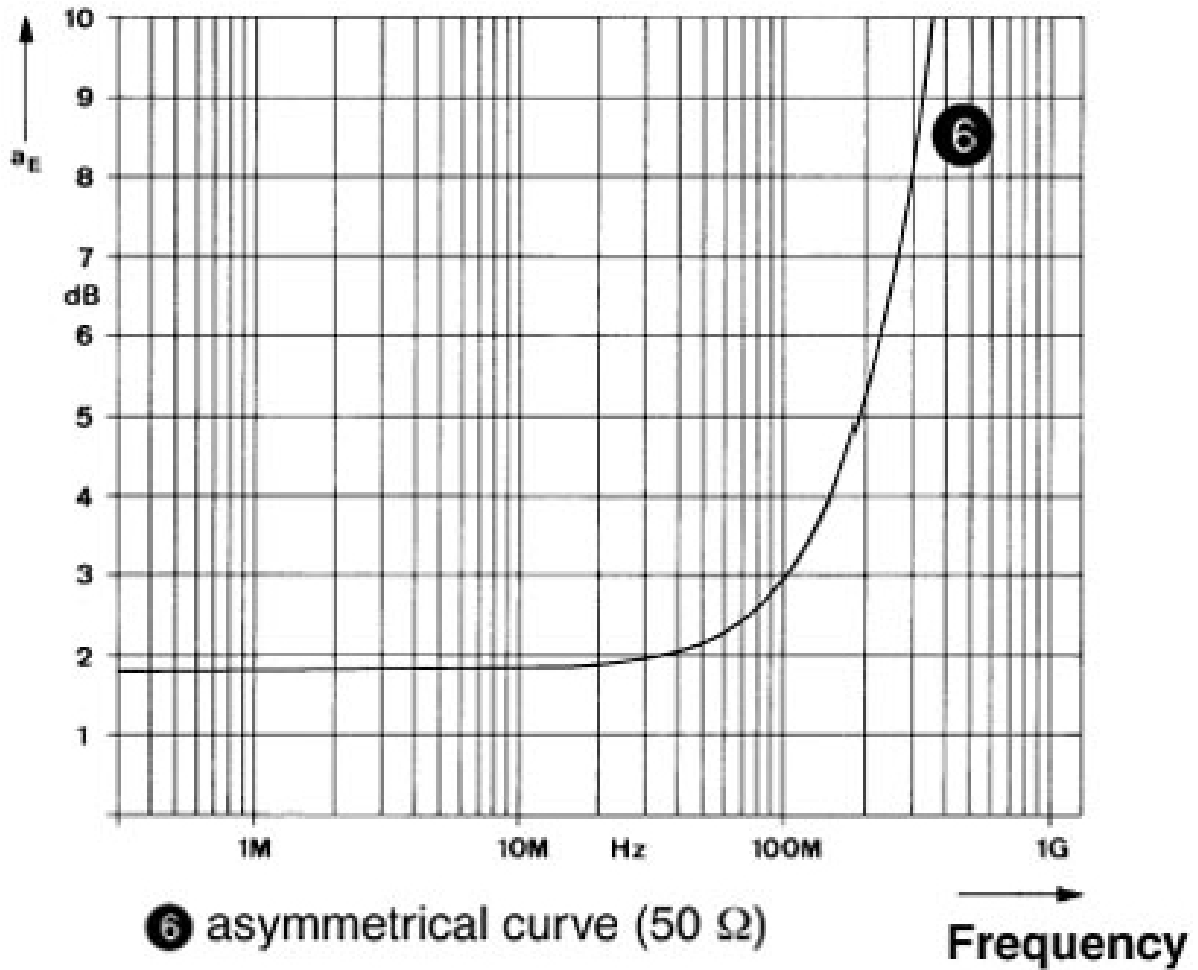
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Drawings

Diagram



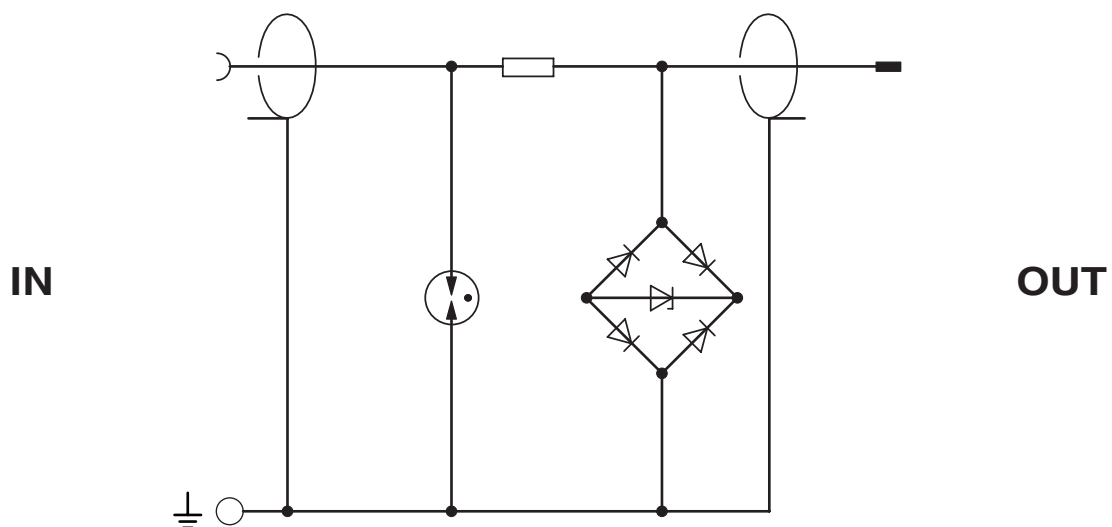
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Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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