

## Surge protection device - C-UFB- 5DC - 2797858

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Attachment plug with surge voltage coarse and fine protection, for coaxial signal interfaces, signal voltage 5 V.  
Connection: BNC socket/plug

### Product Features

- Ground connection via separately led cable
- For insertion in the cable



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 073534
Weight per Piece (excluding packing)	86.25 GRM
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	93 mm
Width	25.4 mm
Length	25.4 mm

#### Ambient conditions

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

#### General

Housing material	Aluminum
Color	black

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### Technical data

#### General

Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Shield/Earth Ground

#### Protective circuit

IEC test classification	C2
	C3
	D1
Maximum continuous operating voltage $U_C$	5 V DC
Maximum continuous voltage $U_C$ (wire-ground)	5 V DC
Nominal current $I_N$	185 mA (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 300 \mu\text{A}$
Residual current $I_{PE}$	$\leq 300 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	10 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Shield)	10 kA
Total surge current (8/20) $\mu\text{s}$	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	10 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 25 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Shield) spike	$\leq 25 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) static	$\leq 15 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Shield) static	$\leq 15 \text{ V}$
Residual voltage at $I_n$ , (conductor-ground)	$\leq 22 \text{ V}$
Residual voltage at $I_n$ , (conductor-shield)	$\leq 22 \text{ V}$
Voltage protection level $U_p$ (Core-Earth)	$\leq 120 \text{ V}$ (C2 - 10 kV / 5 kA)
	$\leq 45 \text{ V}$ (C1 - 1 kV/500 A)
	$\leq 20 \text{ V}$ (C3 - 10 A)
Voltage protection level $U_p$ (Core-Shield)	$\leq 120 \text{ V}$ (C2 - 10 kV / 5 kA)
	$\leq 45 \text{ V}$ (C1 - 1 kV/500 A)
	$\leq 20 \text{ V}$ (C3 - 10 A)
Voltage protection level $U_p$ static (core-ground)	$\leq 35 \text{ V}$ (C1 - 1 kV/500 A)
	$\leq 70 \text{ V}$ (C2 - 10 kV / 5 kA)
Response time $t_A$ (Core-Earth)	$\leq 500 \text{ ns}$
Response time $t_A$ (Core-GND)	$\leq 500 \text{ ns}$
Input attenuation aE, asym.	2 dB ( $\leq 10 \text{ MHz}$ )
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 50 Ohm system	typ. 90 MHz

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### Technical data

#### Protective circuit

Cut-off frequency fg (3 dB), asym. (shield) in 50 Ohm system	typ. 90 MHz
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 - 10 kV / 5 kA
	D1 - 2,5 kA

#### Connection data

Connection method	BNC 50 $\Omega$
Connection type IN	BNC socket
Connection type OUT	BNC plug

#### Connection, equipotential bonding

Connection method	Screw connection
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#### 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

#### ETIM

ETIM 2.0	EC000943
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

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## Approvals

Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

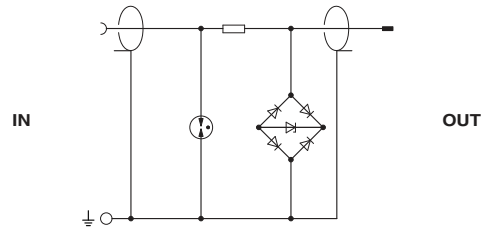
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Approval details



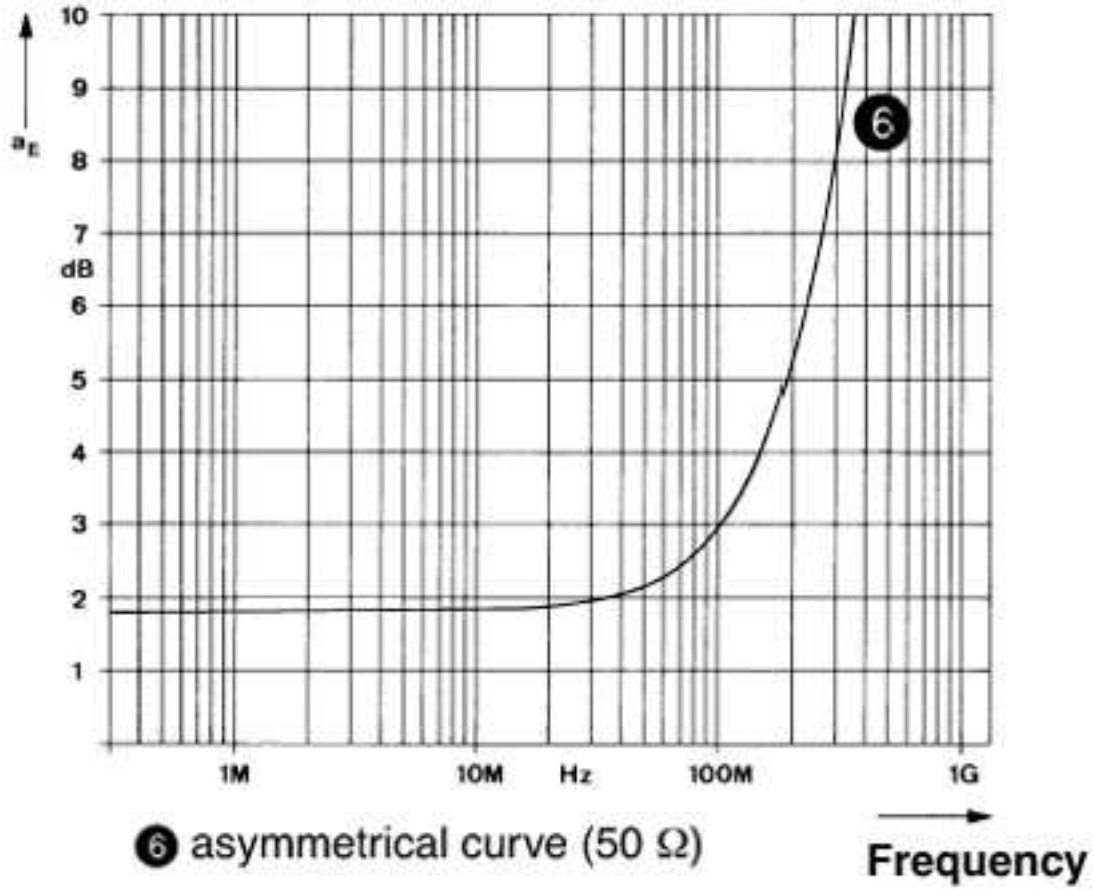
## Drawings

Circuit diagram



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Diagram



Application drawing

