

## Surge protection device - C-SAT-BOX - 2880561

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Surge protection for antenna distributors in satellite systems. IN and OUT via F connectors, 5 channels for signals from SAT systems and terrestrial antennas, ground connection on the outside of the housing.

### Product Features

- Wall mounting supported
- Protection for antenna inputs in satellite receiver technology
- Analog and digital SAT signals
- Terrestrial antenna signals
- Use before antenna distributor or multi-switch



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	286.1 GRM
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	32 mm
Width	145 mm
Depth	72 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Degree of protection	IP40

#### General

Housing material	Zinc die-cast
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## Technical data

### General

Color	silver
Standards for air and creepage distances	IEC 60664-1
	DIN VDE 0110-1
Surge voltage category	II
Pollution degree	2
Mounting type	Screw mounting
Type	Housing for surface mounting
Number of positions	5
Direction of action	Line-Shield/Earth Ground

### Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
Nominal voltage $U_N$	14 V (vertical)
	18 V (horizontal)
Maximum continuous operating voltage $U_C$	20 V DC
Maximum continuous voltage $U_C$ (wire-ground)	20 V DC
Maximum continuous voltage $U_C$ (wire-shield)	20 V DC
Nominal current $I_N$	400 mA (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 2 \mu\text{A}$
Residual current $I_{PE}$	$\leq 2 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	2.5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Shield)	2.5 kA
Total surge current (8/20) $\mu\text{s}$	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	2.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Shield)	2.5 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-Earth)	100 A
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-Shield)	100 A
Nominal pulse current $I_{an}$ (10/700) $\mu\text{s}$ (Core-Earth)	100 A
Nominal pulse current $I_{an}$ (10/700) $\mu\text{s}$ (Core-Shield)	100 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) static	$\leq 80 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Shield) static	$\leq 80 \text{ V}$
Voltage protection level $U_p$ (Core-Earth)	$\leq 500 \text{ V}$ (C2 (4 kV/2 kA))
	$\leq 120 \text{ V}$ (C3 - 100 A)

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### Technical data

#### Protective circuit

Voltage protection level $U_p$ (Core-Shield)	$\leq 500$ V (C2 (4 kV/2 kA))
	$\leq 120$ V (C3 - 100 A)
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
Response time $t_A$ (Core-GND)	$\leq 1$ ns
Input attenuation $a_E$ , asym.	$\leq 3$ dB (5 MHz ... 2.4 GHz)
	$\leq 1$ dB (5 MHz ... 2.2 GHz)
Near-end crosstalk attenuation	$\geq 35$ dB (5 MHz ... 2.4 GHz)
Cut-off frequency $f_g$ (3 dB), asym. (shield) in 75 Ohm system	$> 2.5$ GHz
Frequency range	47 MHz ... 2.5 GHz
Capacity (Core-Core)	typ. 25 nF (f = 1 kHz)
Inductivity in series	typ. 5 $\mu$ H (f = 10 kHz)
Resistance in series	3.3 $\Omega$ 10 %
Surge current resistance (conductor-ground)	B2 - 4 kV/100 A
	C1 (1 kV / 500 A)
	C2 (4 kV / 2 kA)
	C3 (100 A)
	D1 (500 A)

#### Connection data

Connection method	F connector
Connection type IN	F connector, female
Connection type OUT	F connector, female

#### Connection, equipotential bonding

Connection method	Screw connection
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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

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## Classifications

### 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

## Approvals

### Approvals

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Approvals

GOST

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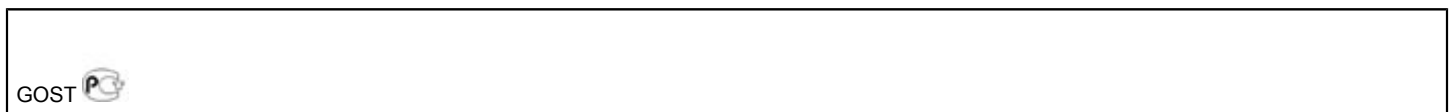
Ex Approvals

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Approvals submitted

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### Approval details



## Accessories

Accessories

Coaxial adapter

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## Accessories

Adapter - ADAPTER KOAX TYP F - 2880972



F-connector-to-adapter, plug-to-plug, can be plugged without thread.

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## Coaxial cable

Conductor - KBL-SAT/20 - 2880985

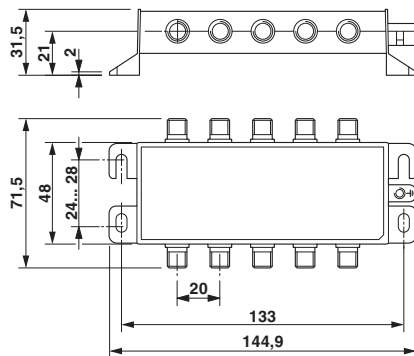


Connecting cable 20 cm with F connector, male connector.

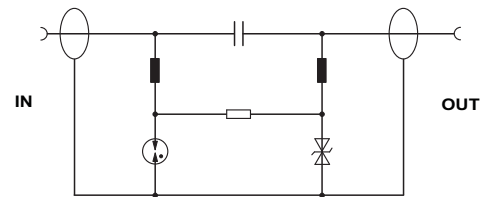
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## Drawings

Dimensioned drawing



Circuit diagram



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Application drawing

