

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 g
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 clearances and creepage distances	IEC 60664-1
	DIN VDE 0110-1
Overvoltage category	II
Degree of pollution	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 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	$\leq 2 \mu A$
Residual current I_{PE}	$\leq 2 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Earth)	2.5 kA
Nominal discharge current I_n (8/20) μs (Core-Shield)	2.5 kA
Total surge current (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	2.5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Shield)	2.5 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	100 A
Nominal pulse current I_{an} (10/1000) μs (Core-Shield)	100 A
Nominal pulse current I_{an} (10/700) μs (Core-Earth)	100 A
Nominal pulse current I_{an} (10/700) μs (Core-Shield)	100 A
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 80 V$
Output voltage limitation at 1 kV/ μs (Core-Shield) static	$\leq 80 V$
Voltage protection level U_p (core-ground)	$\leq 500 V$ (C2 - 4 kV/2 kA)
	$\leq 120 V$ (C3 - 100 A)

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Technical data

Protective circuit

Voltage protection level U_p (core-shield)	≤ 500 V (C2 - 4 kV/2 kA)
	≤ 120 V (C3 - 100 A)
Response time t_A (Core-Earth)	≤ 1 ns
Response time t_A (Core-GND)	≤ 1 ns
Input attenuation a_E , asym.	≤ 3 dB (5 MHz ... 2.4 GHz)
	≤ 1 dB (5 MHz ... 2.2 GHz)
Near-end crosstalk attenuation	≥ 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 μ H ($f = 10$ kHz)
Resistance in series	3.3 Ω 10 %
Impulse durability (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
eCl@ss 9.0	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

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

EAC

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.

Coaxial cable

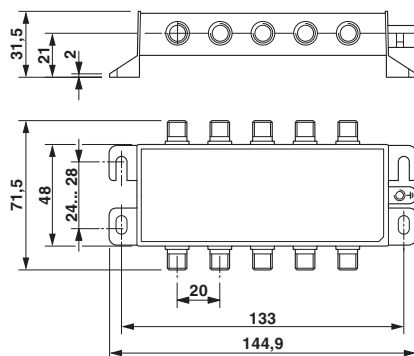
Cable - KBL-SAT/20 - 2880985



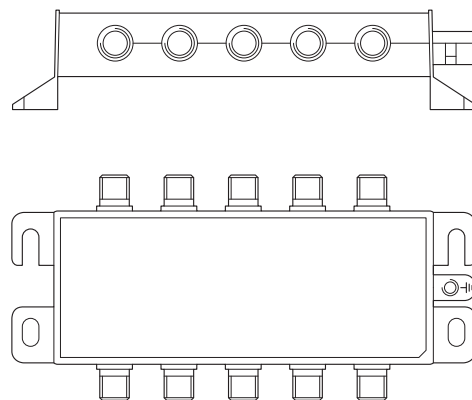
Connecting cable 20 cm with F connector, male connector.

Drawings

Dimensional drawing

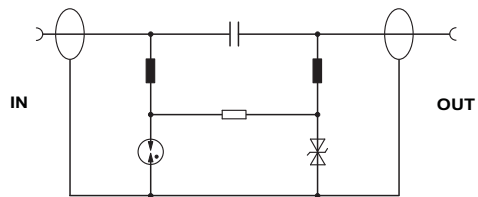


Product drawing



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Circuit diagram



Application drawing

