

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.

Why buy this product

- 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 STK
GTIN	 4 046356 048941

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
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

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Technical data

General

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)
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

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Protective circuit

Capacity (Core-Core)	typ. 25 nF (f = 1 kHz)
Inductivity in series	typ. 5 µH (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

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

Approvals

EAC

Ex Approvals

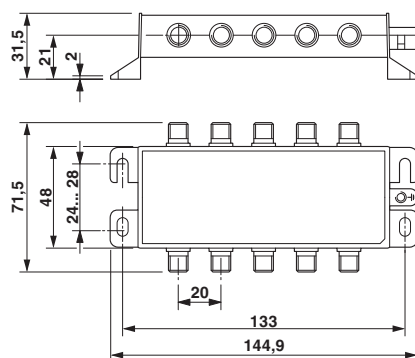
Approvals submitted

Approval details

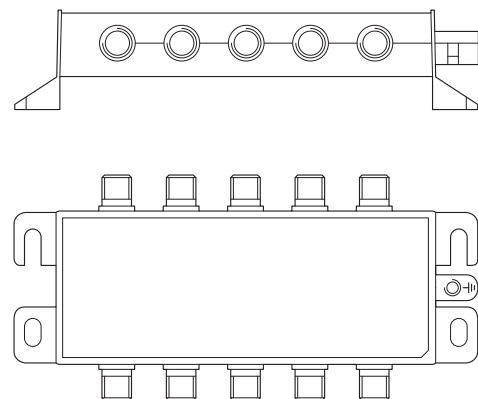
EAC

Drawings

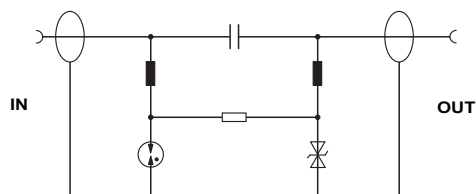
Dimensional drawing



Product drawing

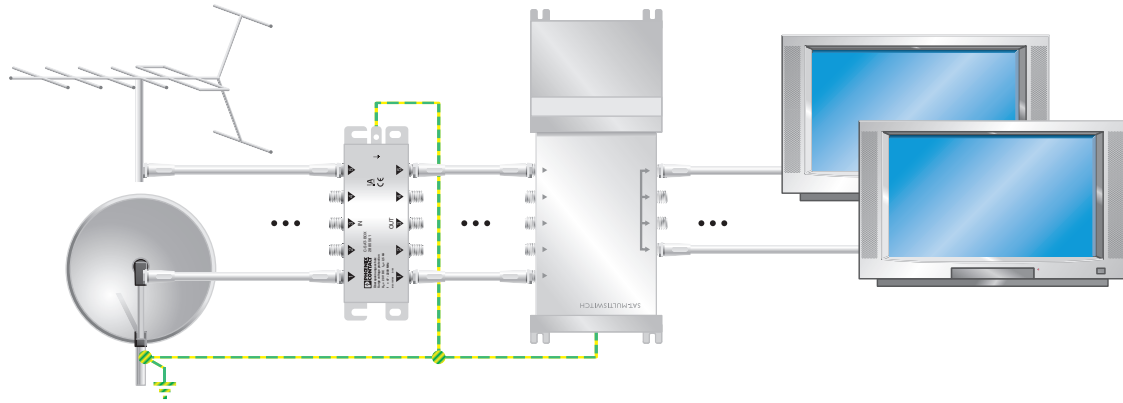


Circuit diagram



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Application drawing



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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>