

C-SAT-BOX - Surge protection device



2880561

<https://www.phoenixcontact.com/us/products/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.

Your advantages

- No signal interference with optimum transmission properties
- Space-saving, thanks to the compact design
- Protection of digital and analog signals with universal protective circuit
- Easy installation with surface mounting

Commercial data

Item number	2880561
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL25
Product key	CL3315
GTIN	4046356048941
Weight per piece (including packing)	277.3 g
Weight per piece (excluding packing)	228.24 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	B2
	C1
	C2
	C3
	D1
Type	Housing for surface mounting
Number of positions	5

Insulation characteristics

Overvoltage category	II
Pollution degree	2

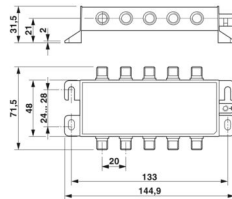
Electrical properties

Nominal voltage U_N	14 V DC (vertical)
	18 V DC (horizontal)

Connection data

Connection method	F connector
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Dimensions

Dimensional drawing	
Width	144.9 mm
Height	31.5 mm
Depth	71.5 mm

Material specifications

Color	silver-colored
Housing material	Die-cast zinc
Housing surface material	Ni
Inner conductor surface material	Sn
Insulation body material	PP
Spring contact material	CuSn

Protective circuit

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Direction of action	Line-Shield/Earth Ground
Nominal voltage U_N	14 V DC (vertical)
	18 V DC (horizontal)
Maximum continuous operating voltage U_C	20 V DC
Rated current	400 mA
Operating effective current I_C at U_C	$\leq 2 \mu\text{A}$ (per channel)
Protective conductor current I_{PE}	$\leq 2 \mu\text{A}$ (per channel)
Nominal discharge current I_n (8/20) μs (line-shield)	2.5 kA
Pulse discharge current I_{imp} (10/350) μs	0.5 kA
Total discharge current I_{Total} (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (line-shield)	2.5 kA
Nominal pulse current I_{an} (10/1000) μs (line-shield)	100 A
Nominal pulse current I_{an} (10/700) μs (line-shield)	100 A
Output voltage limitation at 1 kV/ μs (line-shield) static	$\leq 80 \text{ V}$
Voltage protection level U_p (line-shield)	$\leq 500 \text{ V}$ (C2 - 4 kV / 2 kA)
	$\leq 120 \text{ V}$ (C3 - 100 A)
Response time t_A (line-shield)	$\leq 1 \text{ ns}$
Input attenuation a_E , asym.	$\leq 1 \text{ dB}$ (5 MHz ... 2.2 GHz / 75 Ω)
	$\leq 3 \text{ dB}$ (5 MHz ... 2,4 GHz / 75 Ω)
Near-end crosstalk attenuation	$\geq 40 \text{ dB}$ (5 MHz ... 2,4 GHz / 75 Ω)
Cut-off frequency f_g (3 dB), asym. (shield) in 75 Ω system	$> 2.5 \text{ GHz}$
Frequency range	47 MHz ... 2.5 GHz
Inductivity in series	typ. 5 μH (f = 10 kHz)
Resistance per path	3.3 $\Omega \pm 20 \%$
Surge protection fault message	none
Impulse durability (line-shield)	B2 - 4 kV / 100 A
	C1 - 1 kV / 500 A
	C2 - 4 kV/2 kA
	C3 - 100 A
	D1 - 500 A
Impulse durability (shield-ground)	C2 - 10 kA
	D1 - 5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP40
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 4000 \text{ m}$ (amsl)

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + A1:2008 + A2:2012
Standards/specifications	EN 61643-21

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Note	2013
Standards/specifications	EN 50083-2
Note	CLASS-A

Mounting

Mounting type	Screw mounting
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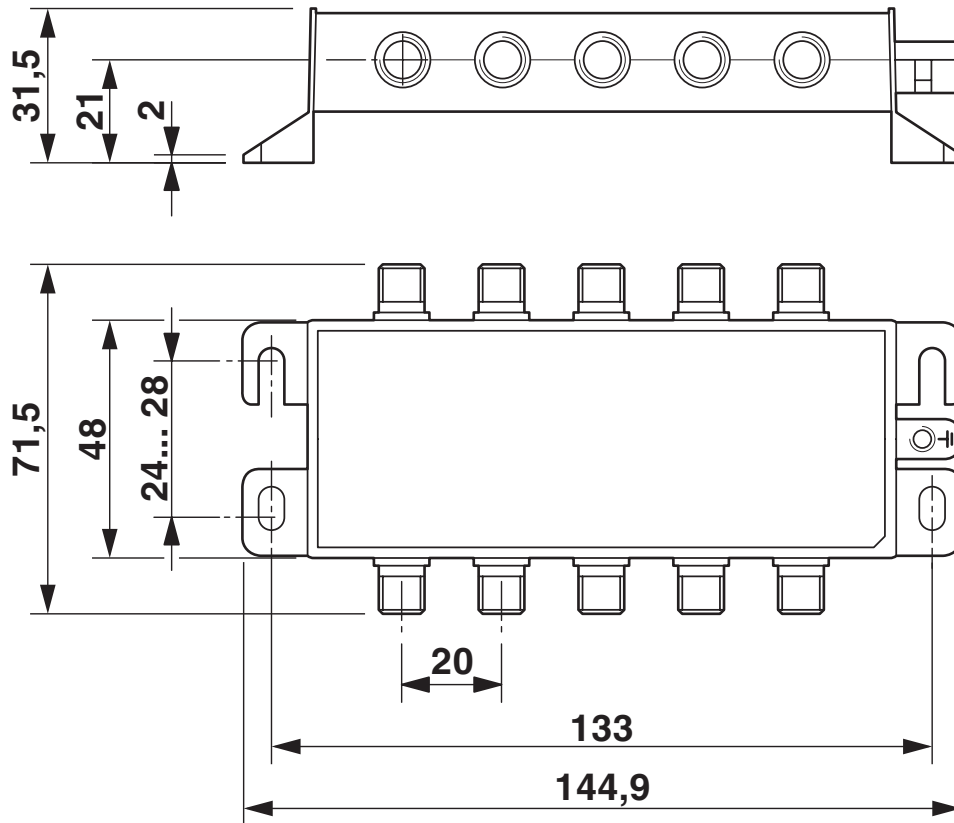
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Drawings

Dimensional drawing

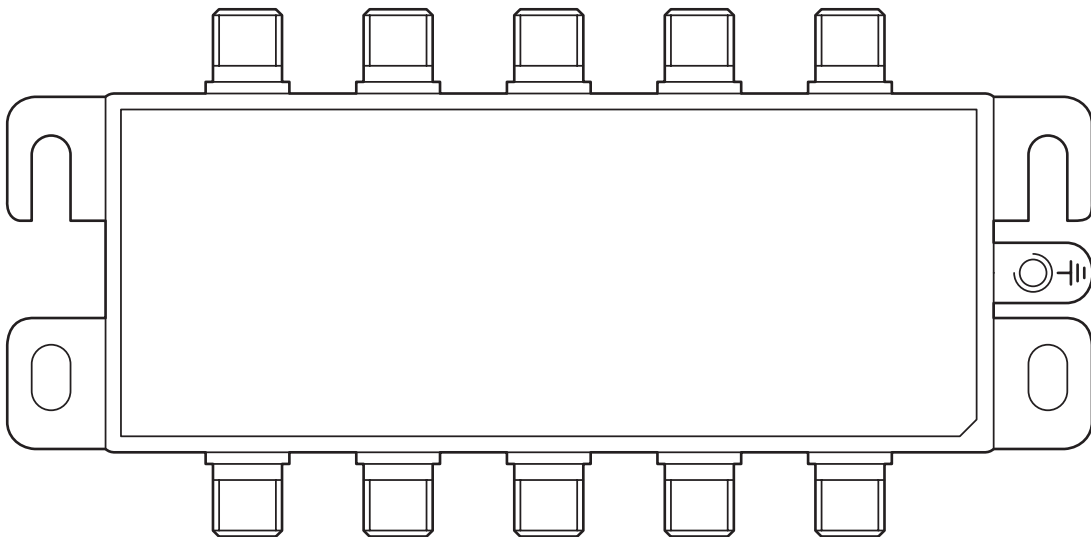
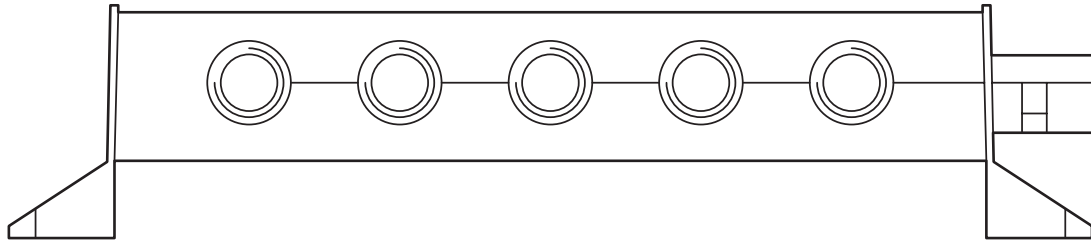


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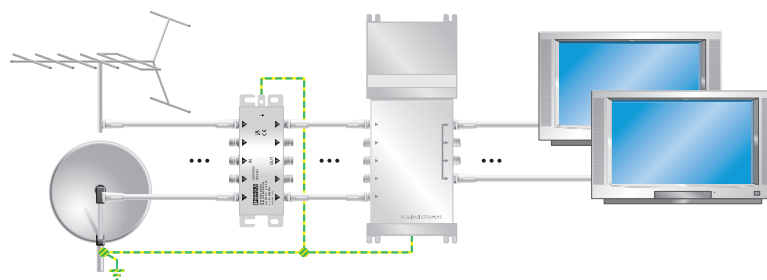
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Product drawing



Application drawing

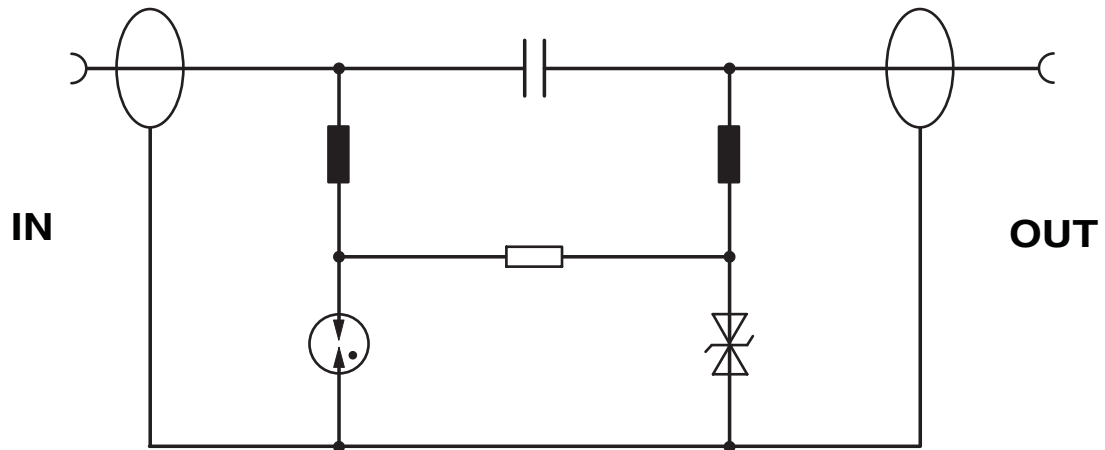


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Circuit diagram



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Classifications

ECLASS

ECLASS-13.0	27171504
ECLASS-15.0	27171504

ETIM

ETIM 10.0	EC001466
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	8c5983bc-fcc9-4ccc-a93d-78435e28f3a9

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