

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
Catalog page	Page 204 (C-4-2019)
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

IEC test classification	B2
	C1
	C2
	C3
	D1
Type	Housing for surface mounting
Product type	Surge protection for transceiver systems
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
Housing surface material	Nickel
Housing material	Zinc die-cast
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
Maximum continuous voltage U_C	20 V DC
Rated current	400 mA
Operating effective current I_C at U_C	$\leq 2 \mu A$ (per channel)
Residual current I_{PE}	$\leq 2 \mu A$ (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	$\leq 80 V$
Voltage protection level U_p (line-shield)	$\leq 500 V$ (C2 - 4 kV / 2 kA) $\leq 120 V$ (C3 - 100 A)
Response time t_A (line-shield)	$\leq 1 ns$
Input attenuation aE , asym.	$\leq 1 dB$ (5 MHz ... 2.2 GHz / 75 Ω) $\leq 3 dB$ (5 MHz ... 2,4 GHz / 75 Ω)
Near-end crosstalk attenuation	$\geq 40 dB$ (5 MHz ... 2,4 GHz / 75 Ω)
Cut-off frequency f_g (3 dB), asym. (shield) in 75 Ω system	$> 2.5 GHz$
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	$\leq 4000 m$ (amsl)

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + A1:2008 + A2:2012
Standards/specifications	EN 61643-21
Note	2013
Standards/specifications	EN 50083-2

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Note	CLASS-A
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Mounting

Mounting type	Screw mounting
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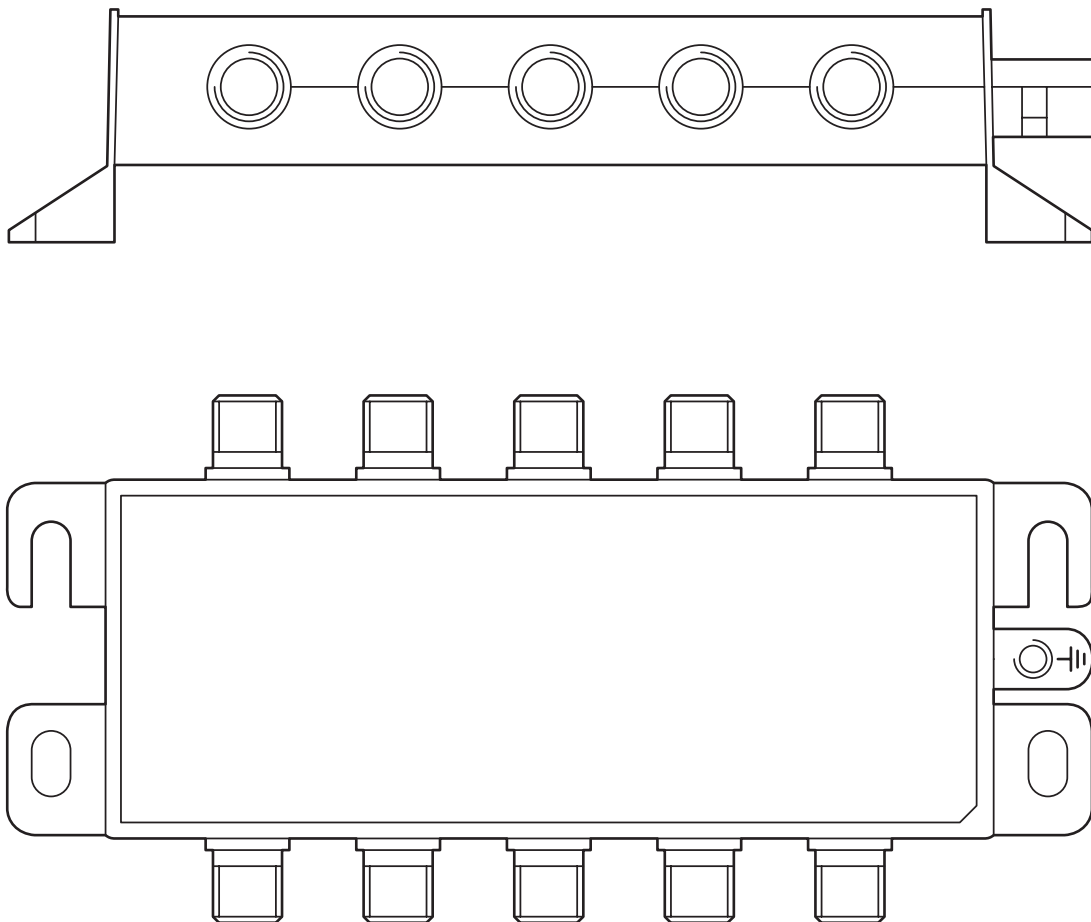
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Drawings

Product drawing



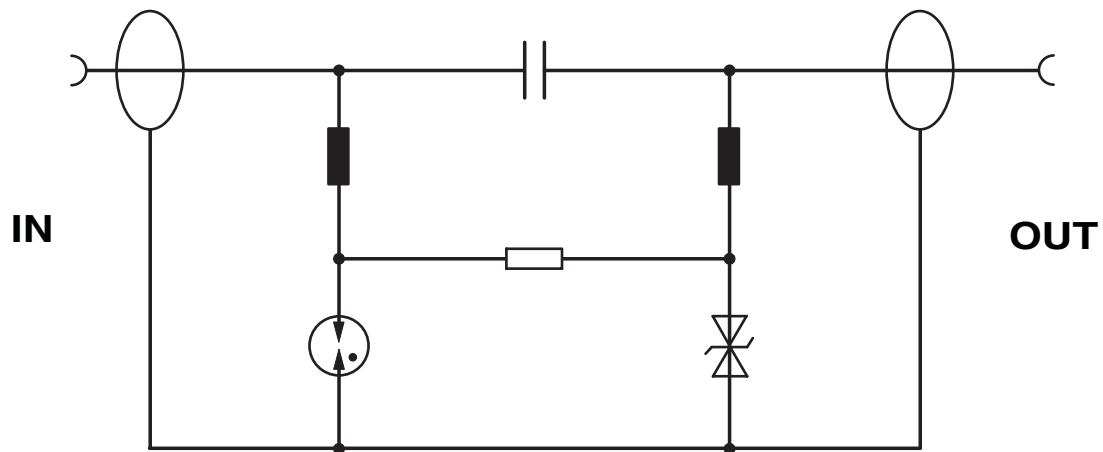
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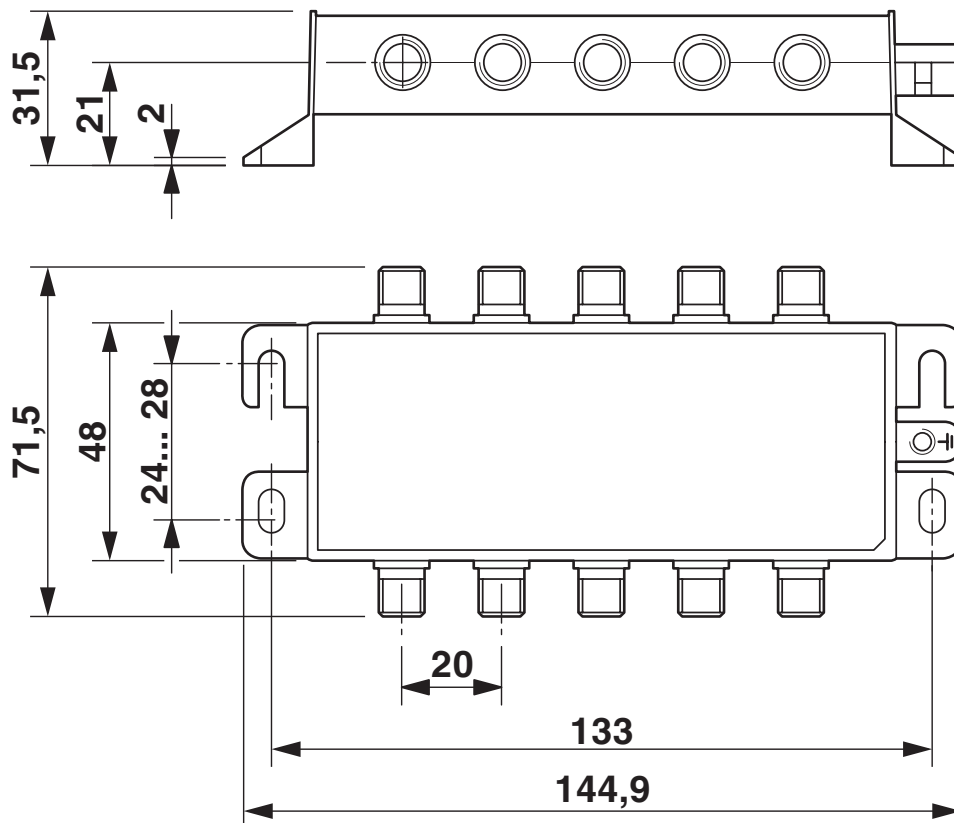
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Circuit diagram



Dimensional drawing



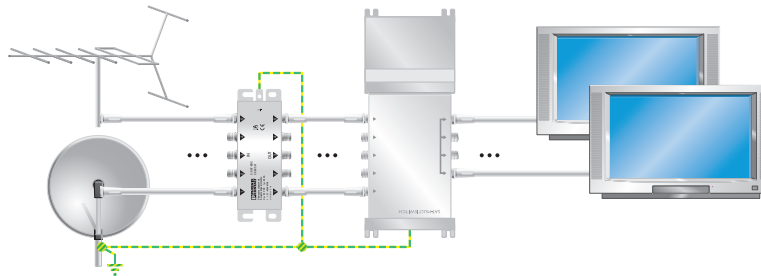
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Application drawing



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Approvals

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EAC

Approval ID: RU C-DE.*09.B.00169

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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