

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

Product type	Surge protection for transceiver systems
IEC test classification	B2
	C1
	C2
	C3
	D1
Туре	Housing for surface mounting
Number of positions	5
Insulation characteristics	
Overvoltage category	II
Pollution degree	2

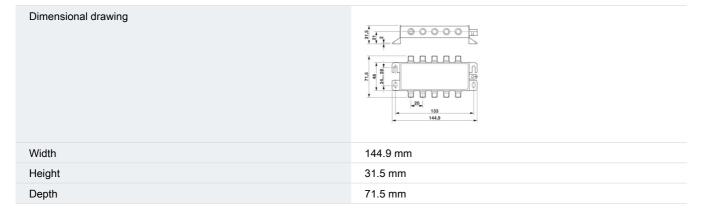
### Electrical properties

Nominal voltage U <sub>N</sub>	14 V DC (vertical)
	18 V DC (horizontal)

### Connection data

Connection method	F connector
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### Dimensions



### 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
Maximum continuous voltage $U_C$	20 V DC
Rated current	400 mA
Operating effective current $I_C$ at $U_C$	≤ 2 µA (per channel)
Residual current I <sub>PE</sub>	≤ 2 µA (per channel)
Nominal discharge current I <sub>n</sub> (8/20) µs (line-shield)	2.5 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs	0.5 kA
Total discharge current I <sub>Total</sub> (8/20) μs	10 kA
Max. discharge current $I_{\text{max}}$ (8/20) $\mu$ s maximum (line-shield)	2.5 kA
Nominal pulse current lan (10/1000) µs (line-shield)	100 A
Nominal pulse current lan (10/700) µs (line-shield)	100 A
Output voltage limitation at 1 kV/µs (line-shield) static	≤ 80 V
oltage protection level U <sub>p</sub> (line-shield)	≤ 500 V (C2 - 4 kV / 2 kA)
	≤ 120 V (C3 - 100 A)
Response time tA (line-shield)	≤ 1 ns
Input attenuation aE, asym.	≤ 1 dB (5 MHz 2.2 GHz / 75 Ω)
	≤ 3 dB (5 MHz 2,4 GHz / 75 Ω)
Near-end crosstalk attenuation	≥ 40 dB (5 MHz 2,4 GHz / 75 Ω)
Cut-off frequency fg (3 dB), asym. (shield) in 75 $\Omega$ 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 Ω ±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	≤ 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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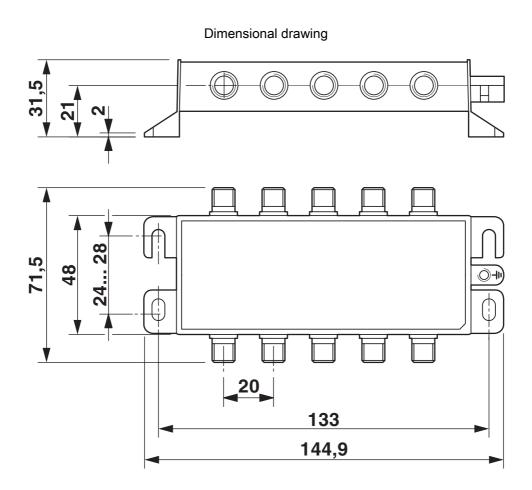
	Note	CLASS-A
Mounting		
	Mounting type	Screw mounting



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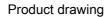
## Drawings

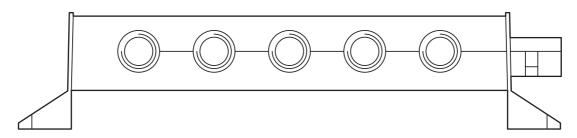


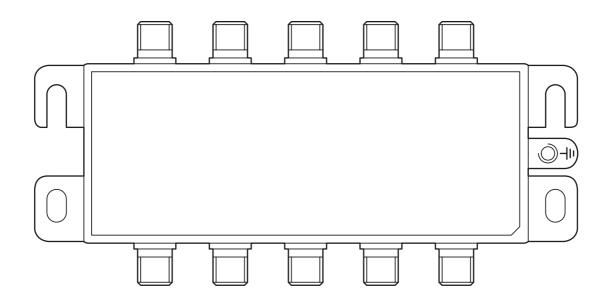


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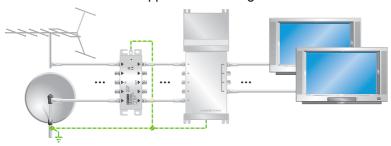








## Application drawing

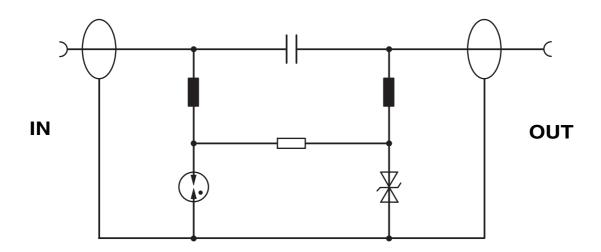




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## Circuit diagram





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## **Approvals**

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EAC

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



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## Classifications

	ECLASS-13.0	27171504		
	202.100 1.010			
ETIM				
	ETIM 9.0	EC000943		
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)-l
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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### Accessories

KBL-SAT/20 - Cable

2880985

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Connecting cable 20 cm with F connector, male connector.

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com