

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.

Your advantages

- 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
GTIN	 4 046356 048941
GTIN	4046356048941
Weight per Piece (excluding packing)	286.100 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	31.5 mm
Width	144.9 mm
Depth	71.5 mm

Ambient conditions

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Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 4000 m (amsl (above mean sea level))
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
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 DC (vertical)
	18 V DC (horizontal)
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_{PE}	≤ 2 μA (per channel)
Nominal discharge current I_n (8/20) μs (line-shield)	2.5 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 (Core-Shield)	100 A
Output voltage limitation at 1 kV/μs (line-shield) static	≤ 80 V
Voltage protection level U_p (line-shield)	≤ 500 V (C2 - 4 kV / 2 kA)
	≤ 120 V (C3 - 100 A)
Response time t_A (line-shield)	≤ 1 ns

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Protective circuit

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 Ohm system	> 2.5 GHz
Frequency range	47 MHz ... 2.5 GHz
Inductivity in series	typ. 5 μ H (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-earth)	C2 - 10 kA
	D1 - 5 kA

Connection data

Connection method	F connector
Connection method IN	F connector, female
Connection method OUT	F connector, female

Connection, equipotential bonding

Connection method	Screw connection
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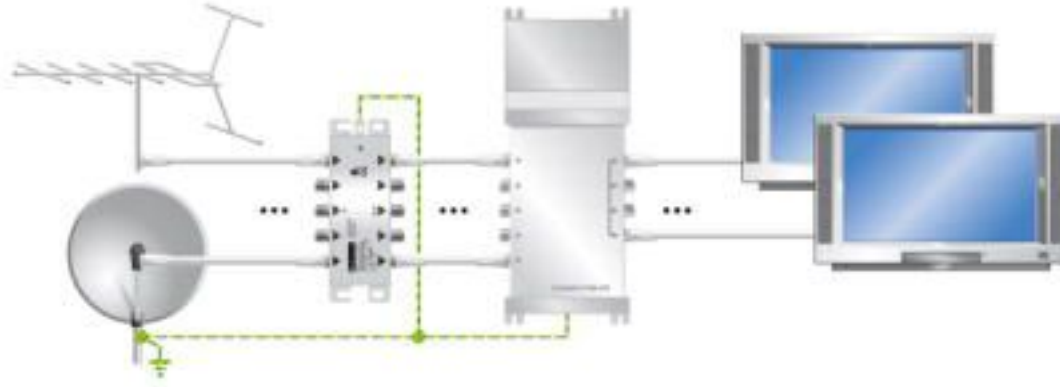
Standards and Regulations

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

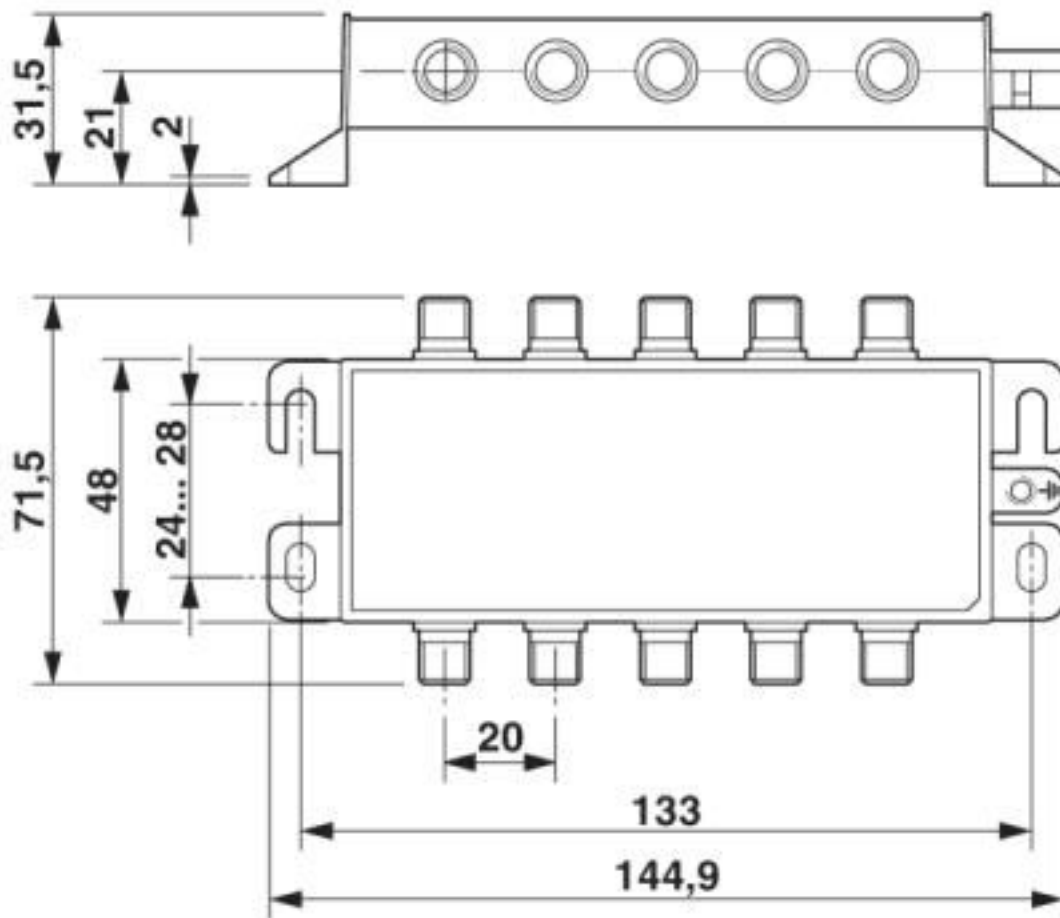
Drawings

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Application drawing

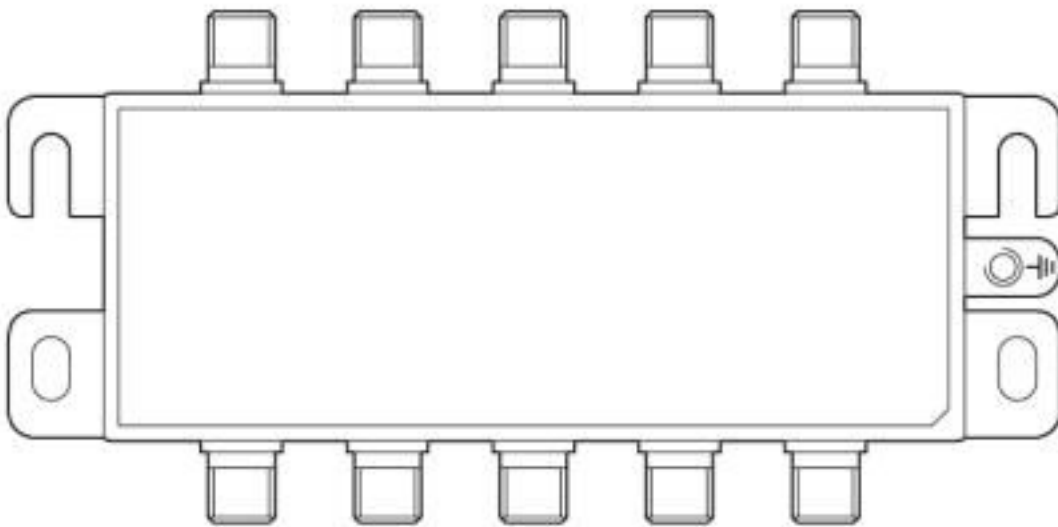
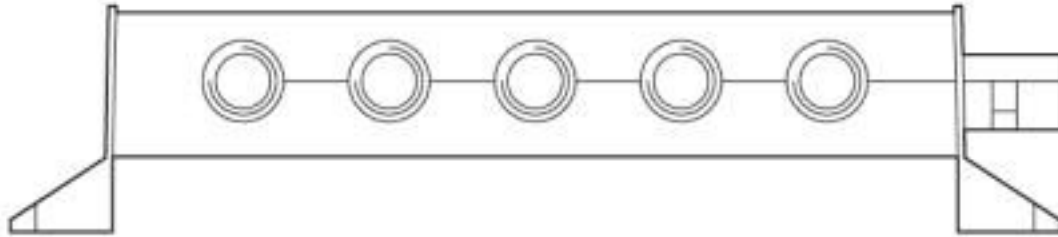


Dimensional drawing

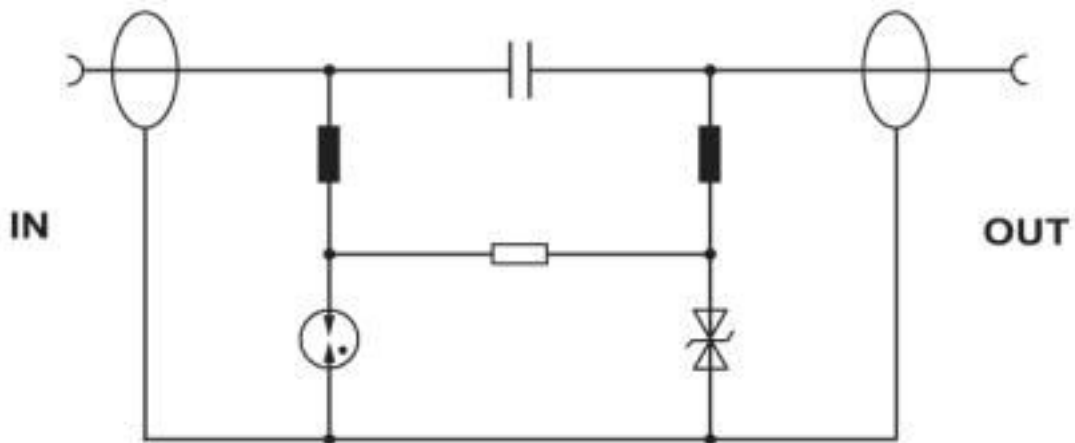


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Product drawing



Circuit diagram



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Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
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
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

EAC

Ex Approvals

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Approvals

Approval details

EAC



RU C-
DE.A*30.B01561

Accessories

Accessories

Coaxial adapter

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.