Surge protection device - C-TV-SAT - 2856993

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Attachment plug with surge protection for antenna inputs with F connector

Your advantages

- No signal interference with optimum transmission properties
- Space-saving, thanks to the compact design
- Ideal addition to the C-SAT-Box for direct end-device protection

RoHS IP20

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 915179
GTIN	4017918915179
Weight per Piece (excluding packing)	68.900 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	44 mm
Width	28 mm
Depth	66 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
Altitude	≤ 2000 m (amsl (above mean sea level))

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Technical data

Ambient conditions

Degree of protection	IP20

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Overvoltage category	II
Degree of pollution	2
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Number of positions	1
Direction of action	Line-Shield/Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Maximum continuous voltage U_C	24 V DC
Rated current	1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 µA
Residual current I_{PE}	≤ 1 µA
Nominal discharge current I_n (8/20) µs (line-shield)	2.5 kA
Pulse discharge current I_{imp} (10/350) µs	0.5 kA
Nominal pulse current Ian (10/1000) µs (line-shield)	120 A
Output voltage limitation at 1 kV/µs (line-shield) spike	≤ 600 V
Output voltage limitation at 1 kV/µs (line-shield) static	≤ 600 V
Residual voltage at I_n (line-shield)	≤ 30 V
Voltage protection level U_p (line-shield)	≤ 700 V (C2 - 4 kV / 2 kA)
	≤ 800 V (C2 - 5 kV/2,5 kA)
Response time tA (line-shield)	≤ 100 ns
Input attenuation aE, asym.	typ. 0.5 dB (≤ 2.4 GHz /75 Ω)
Cut-off frequency fg (3 dB), asym. (shield) in 75 Ω system	> 3 GHz
Frequency range	4.7 MHz ... 2.5 GHz
Capacity asymmetrical (shield)	typ. 10 pF
Surge protection fault message	none
Impulse durability (line-shield)	C2 - 4 kV/2 kA
	C2 - 5 kV / 2.5 kA

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Protective circuit

	C3 - 100 A
	D1 - 500 A
Alternating current carrying capacity (line-shield)	5 A - 1 s
Pulse reset time (line-shield)	< 3 s

Connection data

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

Standards and Regulations

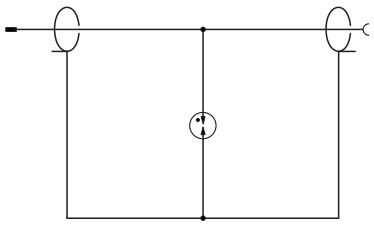
Standards/specifications	IEC 61643-21 2012
	EN 61643-21 2013
	EN 50083 CLASS-A

Environmental Product Compliance

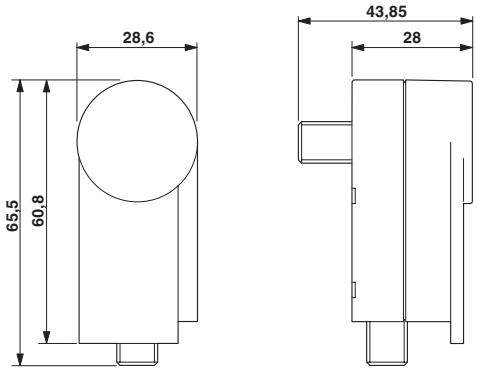
REACh SVHC	Lead 7439-92-1

Drawings

Circuit diagram



Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 11.0	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800

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Classifications

eCl@ss

eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	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

Approval details

EAC	EAC	RU C-DE.*09.B.00169

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