

## Surge protection device - CN-LAMBDA/4-2.25-SB - 2801056

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Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces. Connection: N connectors plug/socket




### Your advantages

- ✓ High HF power in the kW range
- ✓ Maintenance-free surge protection with LAMBDA/4 technology
- ✓ Low protection level



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 678247
GTIN	4046356678247

### Technical data

#### Dimensions

Height	77.5 mm
Width	25 mm
Length	81.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Altitude	2000 m
Degree of protection	IP68

#### General

Housing material	HPb59-1
Color	nickel
Standards for clearances and creepage distances	IEC 60664-1
Mounting type	Connection-specific intermediate plugging

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## Technical data

### General

Type	Attachment plug
Number of positions	1
Direction of action	Line-Shield/Earth Ground

### Protective circuit

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Nominal current $I_N$	5 A (25 °C)
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-earth)	50 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-shield)	50 kA
Total surge current (8/20) $\mu$ s	60 kA
Total surge current (10/350) $\mu$ s	20 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-earth)	60 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-shield)	60 kA
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	$\leq 20$ kA
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq 1$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) spike	$\leq 1$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq 1$ V
Voltage protection level $U_p$ (line-earth)	$\leq 15$ V (6 kV / 3 kA)
	$\leq 5$ V (C1 - 1 kV/500 A)
	$\leq 25$ V (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-shield)	$\leq 25$ V (C2 - 10 kV / 5 kA)
	$\leq 5$ V (C1 - 1 kV/500 A)
	$\leq 15$ V (6 kV / 3 kA)
Input attenuation aE, asym.	$\leq 0.2$ dB (50 $\Omega$ )
Frequency range	0.8 GHz ... 2.25 GHz
Standing wave ratio SWR in a 50 $\Omega$ system	typ. 1.2
	max. 1.25
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	$\leq 500$ W
	$\leq 4$ kW (peak)
Surge protection fault message	none
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

### Connection data

Connection method	N connector 50 $\Omega$
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## Technical data

### Connection data

Connection method IN	N connector, male
Connection method OUT	N connector, female

### Standards and Regulations

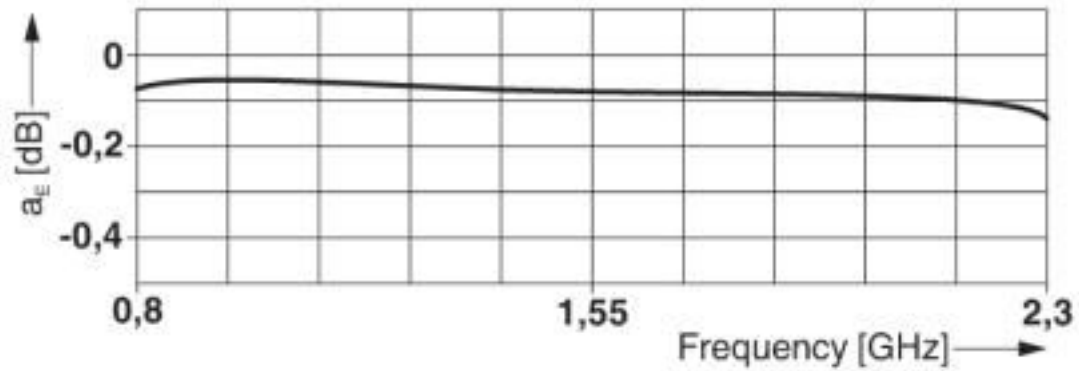
Standards/specifications	IEC 61643-21/A1 2008
	EN 61643-21/A1 2009

### Environmental Product Compliance

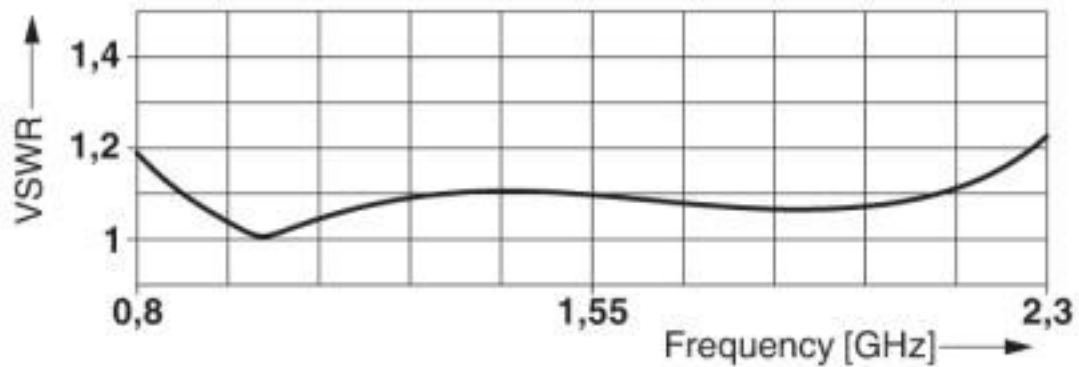
REACH SVHC	Lead 7439-92-1
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## Drawings

Diagram

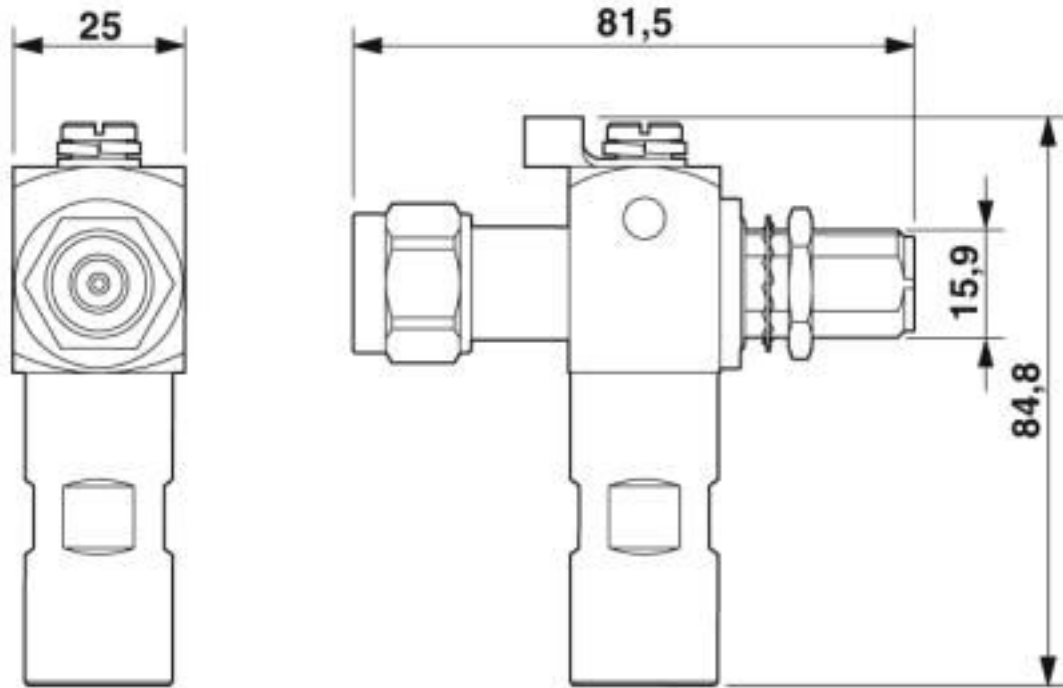


Diagram



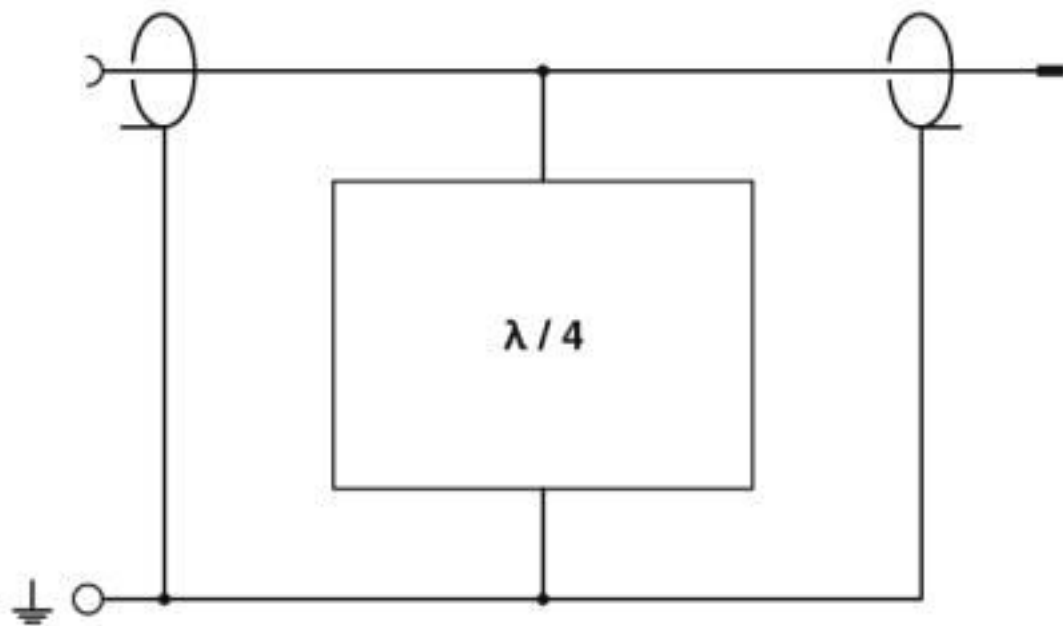
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Dimensional drawing



Dimensional drawing  
CN-LAMBDA/4-2.25-SB

Circuit diagram



Circuit diagram

# Surge protection device - CN-LAMBDA/4-2.25-SB - 2801056

## 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 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

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Approvals

EAC / EAC

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Ex Approvals

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### Approval details

# Surge protection device - CN-LAMBDA/4-2.25-SB - 2801056

## Approvals

EAC		EAC-Zulassung
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EAC		RU C- DE.*09.B.00169
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## Accessories

### Accessories

#### Assembly adapter

Mounting plate - CN-UB/MP - 2818135



Tongue for attaching the CN-UB..., to housing panels, for example.

Mounting plate - CN-UB/MP-90DEG-50 - 2803137



Angled bracket for individually fixing CN-UB... to housing panels, for example.

## Additional products

Mounting plate - CN-UB/MP - 2818135



Tongue for attaching the CN-UB..., to housing panels, for example.

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