

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

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

RoHS

### 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

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

## 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 $\Omega$
-------------------	-------------------------

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

## Technical data

### Connection data

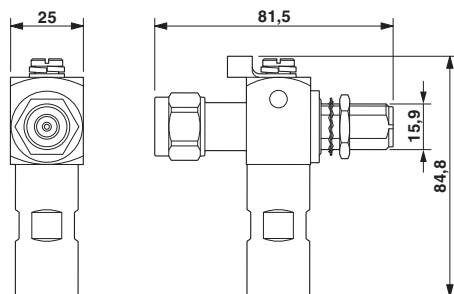
Connection method IN	N connector, male
Connection method OUT	N connector, female

### Standards and Regulations

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

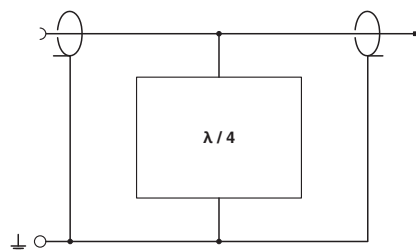
## Drawings

Dimensional drawing



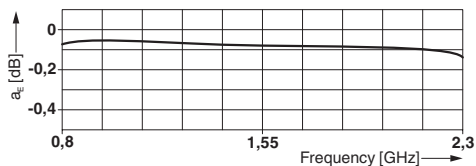
Dimensional drawing  
CN-LAMBDA/4-2.25-SB

Circuit diagram

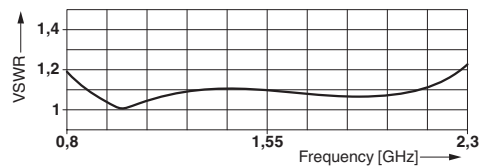


Circuit diagram

Diagram



Diagram



## Approvals

Approvals

---

Approvals

EAC / EAC

---

Ex Approvals

---

Approval details

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

### Approvals

EAC		RU C- DE.A*30.B01561
-----	---	-------------------------

EAC		EAC-Zulassung
-----	---	---------------

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>