

# CSMA-LAMBDA/4-2.0-BS-SET - Surge protection device



2800491

<https://www.phoenixcontact.com/us/products/2800491>

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Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces.  
Connection: Male/female SMA connectors.



## Commercial data

Item number	2800491
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL26
Product key	CL3312
GTIN	4046356556149
Weight per piece (including packing)	384 g
Weight per piece (excluding packing)	300.45 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	C2
	C3
	D1
Type	Intermediate plug
Number of positions	2

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Connection data

Connection method	SMA connector
Tightening torque	1 Nm

### Protective ground connection

Connection method	Screw connection
Tightening torque	1.5 Nm

### Dimensions

Dimensional drawing	
Width	84.8 mm
Height	25 mm
Depth	81.5 mm

### Material specifications

Color	nickel color
Housing material	HPb59-1
Housing surface material	Cu-Sn-Zn
Contact surface material	Au
Insulation body material	PTFE
Spring contact material	QSn6.5-0.1

### Mechanical properties

#### Mechanical data

Open side panel	No
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## Protective circuit

Direction of action	Line-Shield/Earth Ground
Rated current	2 A (25 °C)
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	6 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-shield)	6 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-shield)	1 kA
Total discharge current $I_{Total}$ (8/20) $\mu$ s	6 kA
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq 1$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) static	$\leq 1$ V
Voltage protection level $U_p$ (line-earth)	$\leq 5$ V (C1 - 1 kV / 500 A)
	$\leq 25$ V (C2 - 10 kV / 5 kA)
	$\leq 15$ V (6 kV / 3 kA)
Input attenuation aE, asym.	$\leq 1$ dB (0.8 GHz ... 2.25 GHz)
Frequency range	0.8 GHz ... 2.25 GHz
Voltage standing wave ratio VSWR in a 50 $\Omega$ system	$\leq 1.20$ (0.8 GHz ... 2.25 GHz)
	$\leq 1.10$ (1.7 GHz ... 2.1 GHz)
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	$\leq 110$ W (VSWR = 1,0 / 40 °C)
	$\leq 60$ W (VSWR = 1,0 / 70 °C)
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 1 kA
Impulse durability (line-shield)	C2 - 10 kV/5 kA
	D1 - 1 kA

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP55
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	$\leq 2000$ m (amsl)

## Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + A1:2008, modified
Standards/specifications	EN 61643-21
Note	2001 + A1:2009

## Mounting

Mounting type	Connection-specific intermediate plugging
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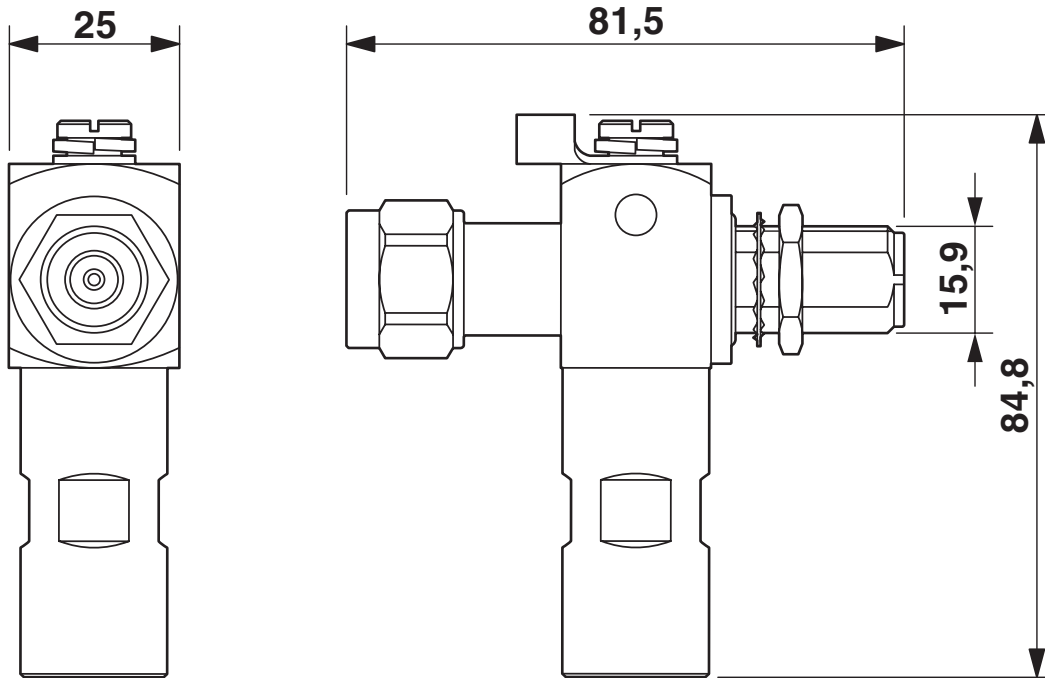
# CSMA-LAMBDA/4-2.0-BS-SET - Surge protection device

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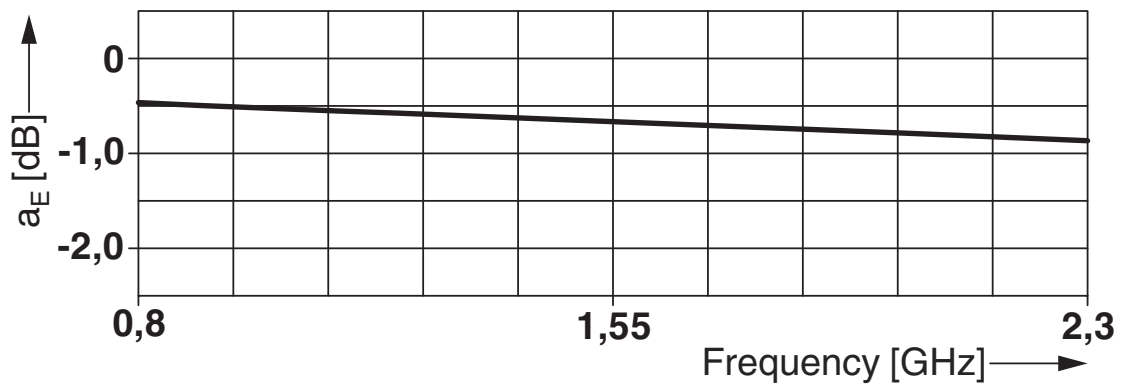
<https://www.phoenixcontact.com/us/products/2800491>

## Drawings

Dimensional drawing



Diagram



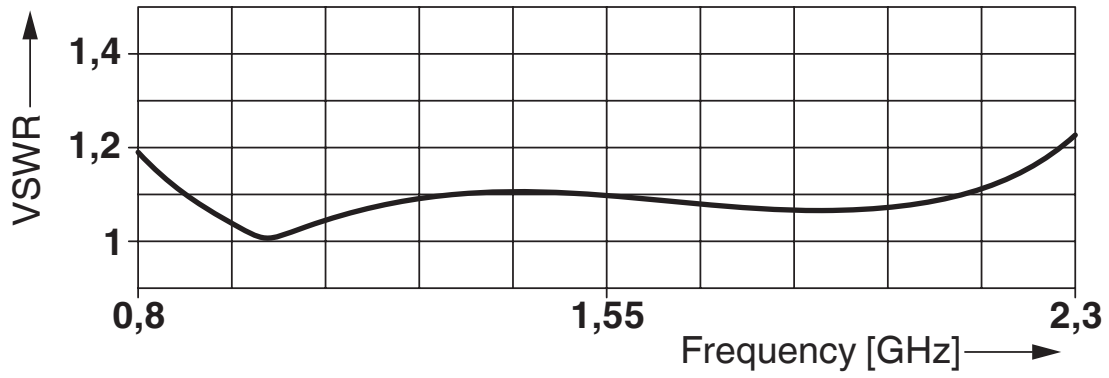
# CSMA-LAMBDA/4-2.0-BS-SET - Surge protection device



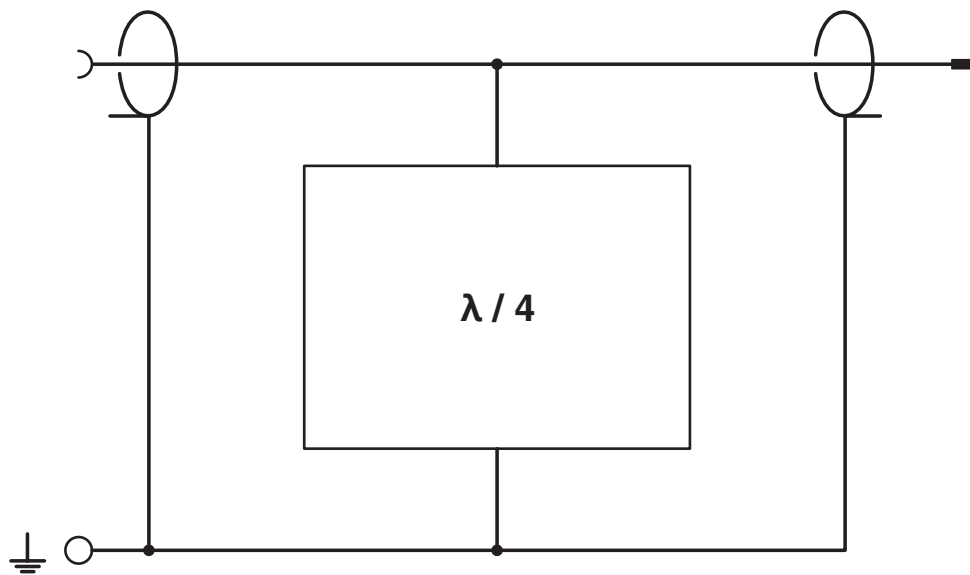
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Diagram



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171504
ECLASS-15.0	27171504

### ETIM

ETIM 10.0	EC001625
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### 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	62a2c159-96f1-460f-ad6a-fe974b72a9e0

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