

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

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

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 documentation. Our general terms of use for downloads are valid.



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
Catalog page	Page 179 (C-4-2017)
GTIN	4046356556149
Weight per piece (including packing)	393.2 g
Weight per piece (excluding packing)	300.45 g
Customs tariff number	85366910
Country of origin	DE

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



2800491

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

Technical data

Product properties

Product type	Surge protection for transceiver systems
IEC test classification	C2
	C3
	D1
Type	Attachment plug
Number of positions	2

Insulation characteristics

Overvoltage category	III
Pollution degree	2

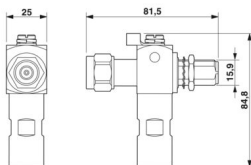
Connection data

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
-----------------	----

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



2800491

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

Protective circuit

Direction of action	Line-Shield/Earth Ground
Rated current	2 A (25 °C)
Nominal discharge current I_n (8/20) μ s (line-ground)	6 kA
Nominal discharge current I_n (8/20) μ s (line-shield)	6 kA
Pulse discharge current I_{imp} (10/350) μ s (line-shield)	1 kA
Total discharge current I_{total} (8/20) μ s	6 kA
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 1 V
Output voltage limitation at 1 kV/ μ s (line-shield) static	≤ 1 V
Voltage protection level U_p (line-earth)	≤ 5 V (C1 - 1 kV / 500 A)
	≤ 25 V (C2 - 10 kV / 5 kA)
	≤ 15 V (6 kV / 3 kA)
Input attenuation aE, asym.	≤ 1 dB (0.8 GHz ... 2.25 GHz)
Frequency range	0.8 GHz ... 2.25 GHz
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 1.20 (0.8 GHz ... 2.25 GHz)
	≤ 1.10 (1.7 GHz ... 2.1 GHz)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	≤ 110 W (VSWR = 1,0 / 40 °C)
	≤ 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	≤ 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
---------------	---

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

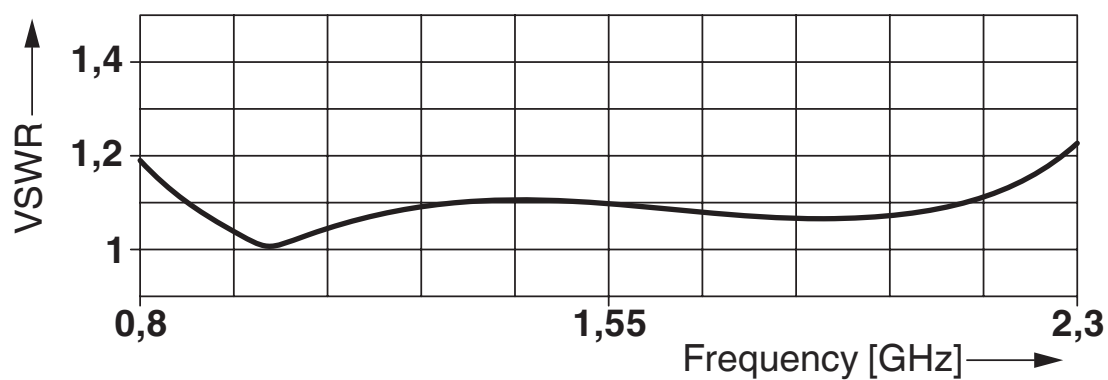


2800491

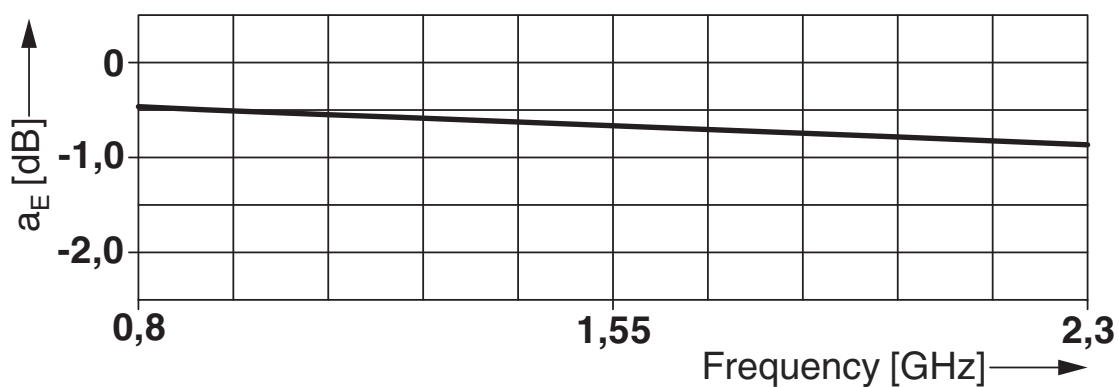
<https://www.phoenixcontact.com/us/products/2800491>

Drawings

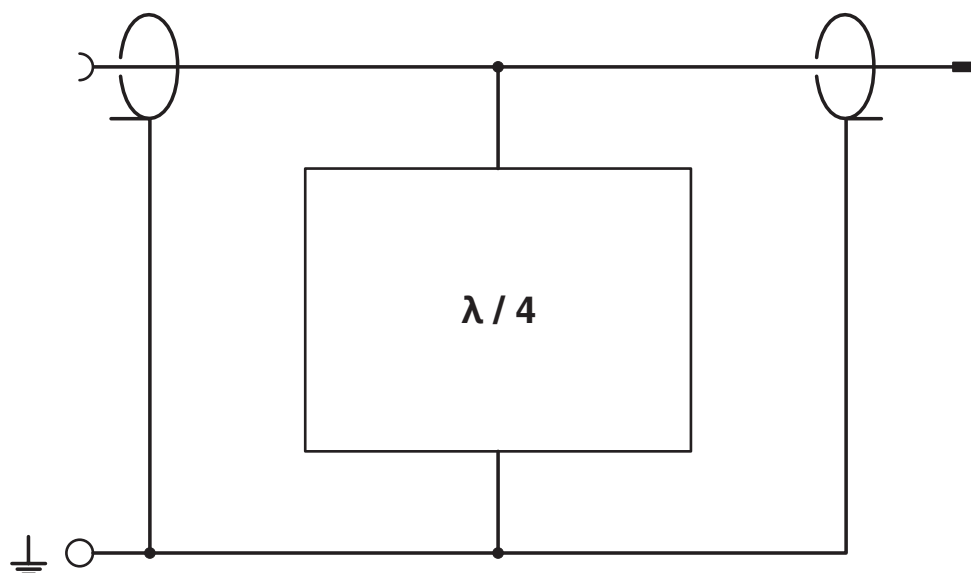
Diagram



Diagram



Circuit diagram

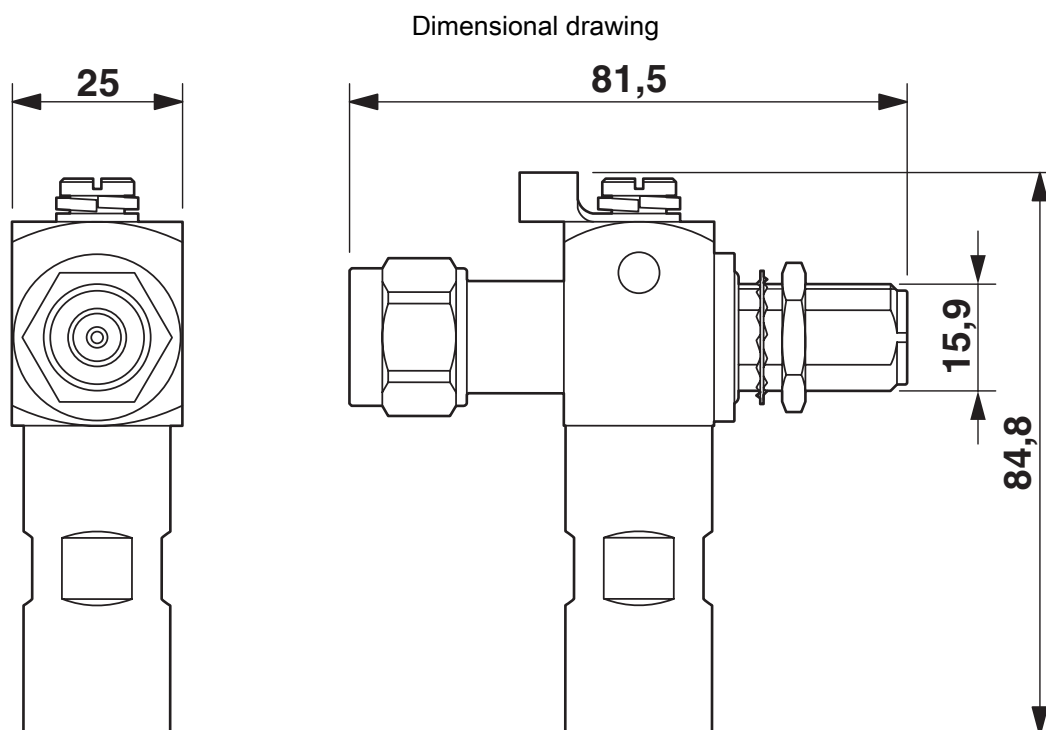


CSMA-LAMBDA/4-2.0-BS-SET - Surge protection device



2800491

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



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



2800491

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

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2800491>



EAC

Approval ID: EAC-Zulassung

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



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

Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943
----------	----------

UNSPSC

UNSPSC 21.0	39121600
-------------	----------

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



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

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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

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