

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
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

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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

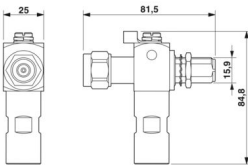
Connection data

Connection method	SMA connector
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Protective ground connection

Connection method	Screw connection
Tightening torque	1 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

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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
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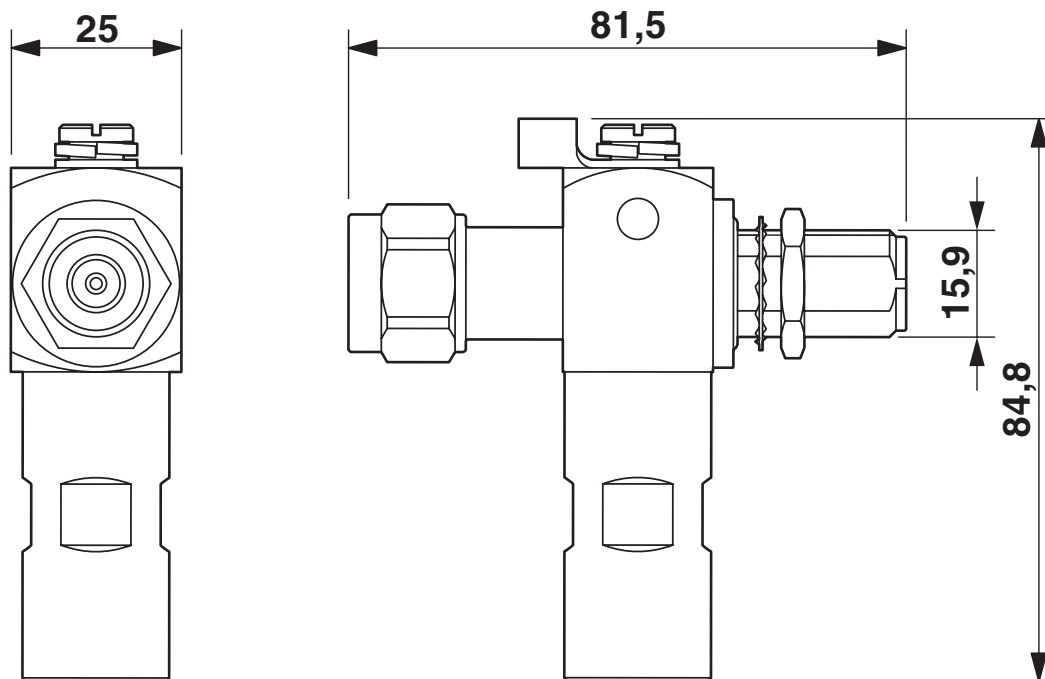
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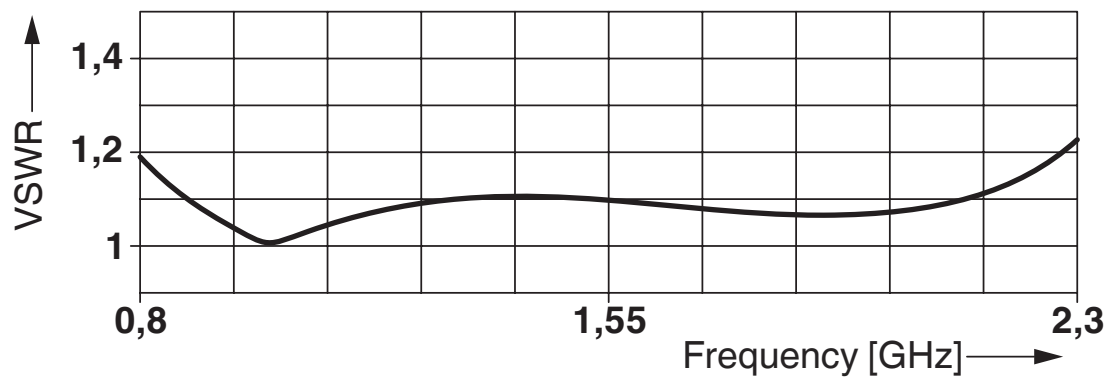
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Drawings

Dimensional drawing



Diagram



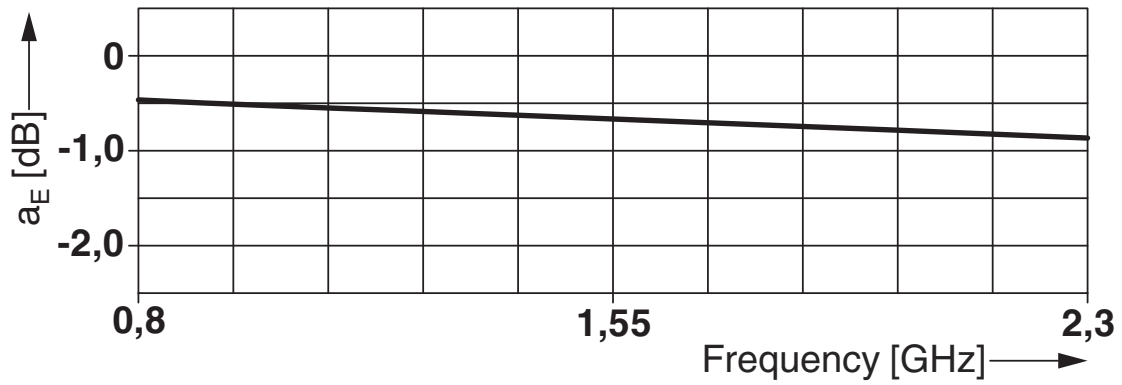
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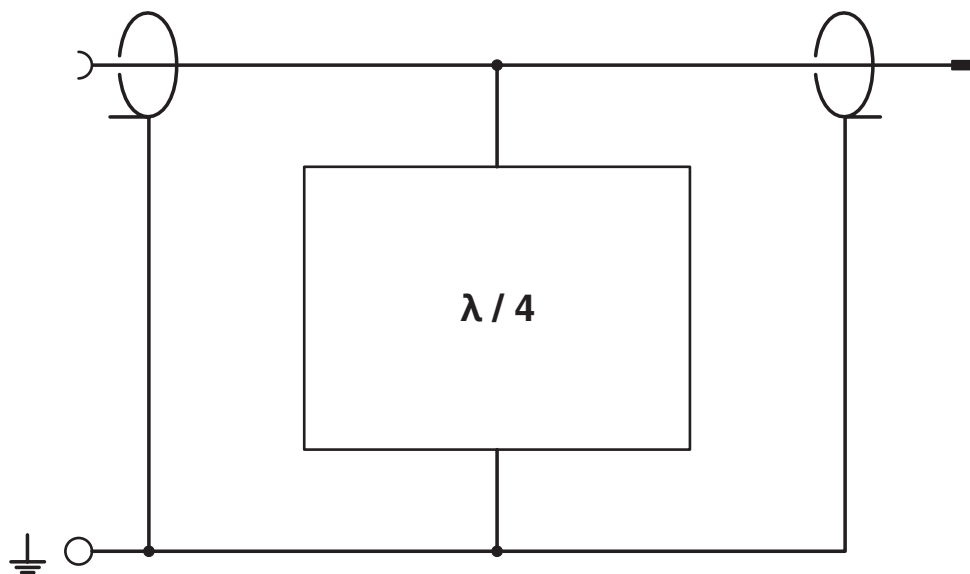
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Diagram



Circuit diagram



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Approvals

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EAC

Approval ID: EAC-Zulassung

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943
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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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Accessories

CN-UB/MP-90DEG-50 - Mounting panel

2803137

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

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