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

2800491

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2 A

IEC



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	CL3312
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

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

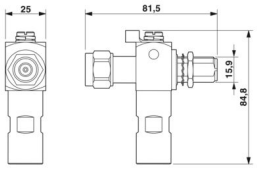
Connection data

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

Protective circuit

Direction of action	Line-Shield/Earth Ground
Rated current	2 A (25 °C)
Nominal discharge current I_n (8/20) µs (line-ground)	6 kA
Nominal discharge current I_n (8/20) µs (line-shield)	6 kA
Pulse discharge current I_{imp} (10/350) µs (line-shield)	1 kA
Total discharge current I_{Total} (8/20) µs	6 kA
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 1 V
Output voltage limitation at 1 kV/µs (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

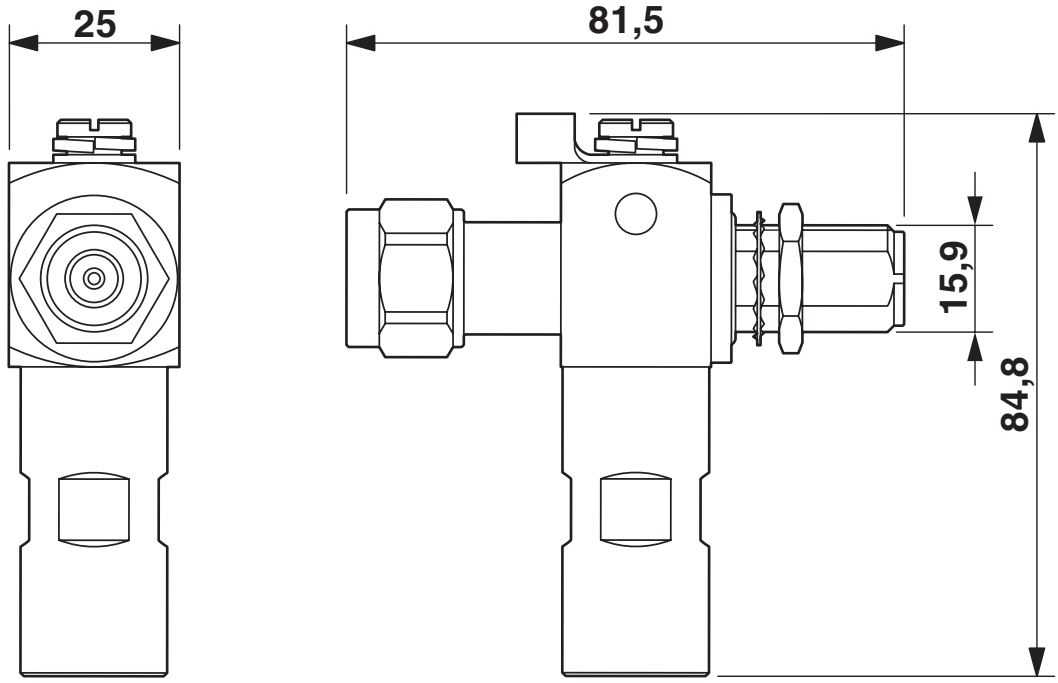
Standards/specifications	IEC 61643-21
Note	2000 + A1:2008, modified
Standards/specifications	EN 61643-21
Note	2001 + A1:2009

Mounting

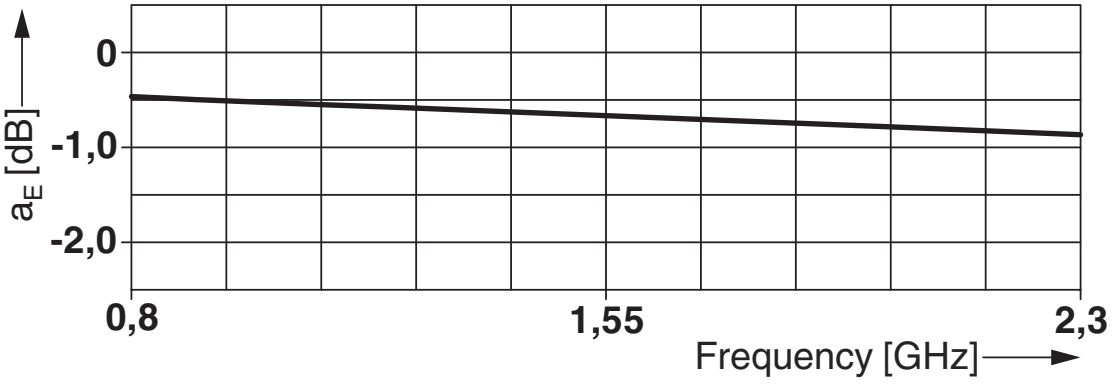
Mounting type	Connection-specific intermediate plugging

Drawings

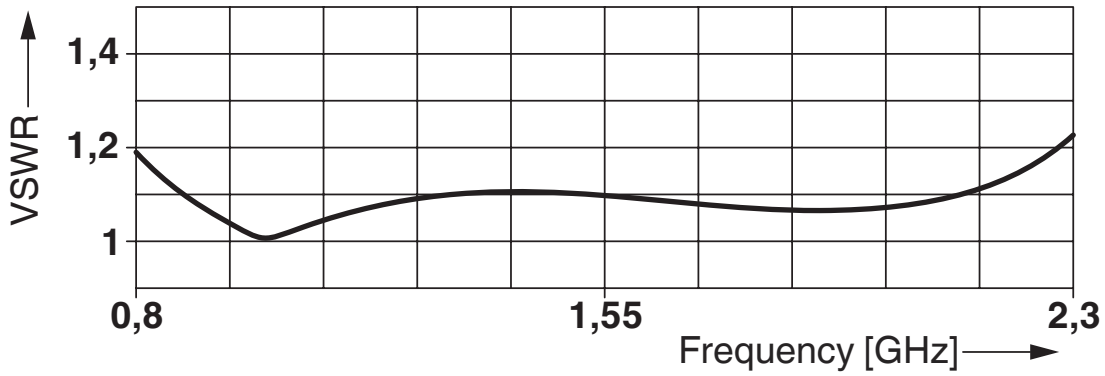
Dimensional drawing



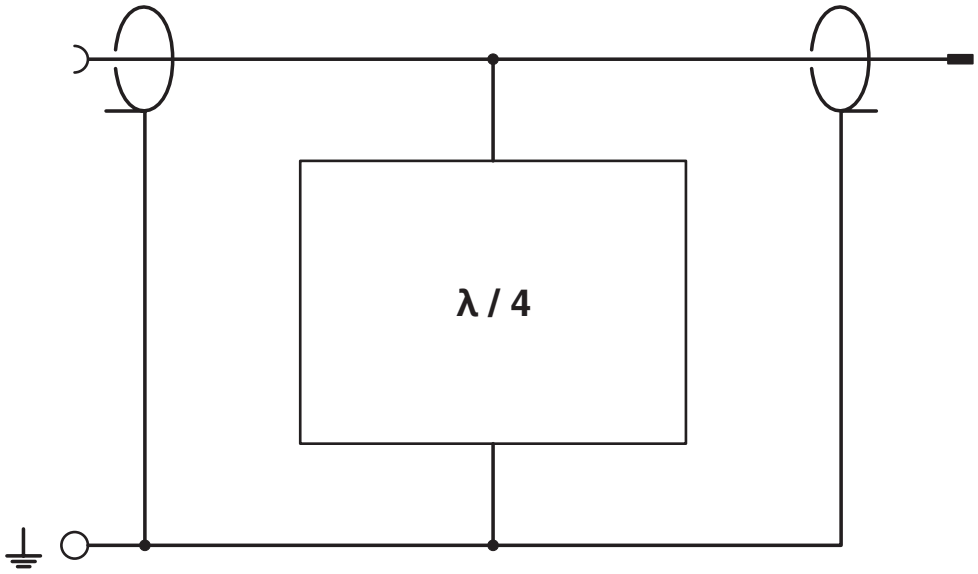
Diagram



Diagram



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27171504
ECLASS-15.0	27171504

ETIM

ETIM 10.0	EC001466

UNSPSC

UNSPSC 21.0	39121600

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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