

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



2801056

<https://www.phoenixcontact.com/us/products/2801056>

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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

Commercial data

Item number	2801056
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL26
Product key	CL3312
GTIN	4046356678247
Weight per piece (including packing)	296 g
Weight per piece (excluding packing)	260 g
Customs tariff number	85363010
Country of origin	CN

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Technical data

Product properties

Product type	Surge protection for transceiver systems
IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Type	Intermediate plug
Number of positions	1
Surge protection fault message	none

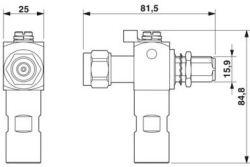
Insulation characteristics

Overvoltage category	III
Pollution degree	2

Connection data

Connection method	N connector 50 Ω
Tightening torque	1.5 Nm

Dimensions

Dimensional drawing	
Width	25 mm
Height	77.5 mm
Length	81.5 mm

Material specifications

Color	nickel color
	black (RAL 9005)
Housing material	HPb59-1
Housing surface material	Cu-Sn-Zn
Contact surface material	Au
Inner conductor material	QSn6.5-0.1
Inner conductor surface material	Gold
Insulation body material	PTFE
Spring contact material	QSn6.5-0.1

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Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Shield/Earth Ground
Rated current	5 A (25 °C)
Nominal discharge current I_n (8/20) μ s (line-ground)	50 kA
Nominal discharge current I_n (8/20) μ s (line-shield)	50 kA
Pulse discharge current I_{imp} (10/350) μ s	20 kA
Total surge current (8/20) μ s	60 kA
Total surge current (10/350) μ s	20 kA
Total discharge current I_{Total} (8/20) μ s	60 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-earth)	60 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-shield)	60 kA
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 1 V
Output voltage limitation at 1 kV/ μ s (line-shield) spike	≤ 1 V
Output voltage limitation at 1 kV/ μ s (line-earth) 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)
Voltage protection level U_p (line-shield)	≤ 5 V (C1 - 1 kV / 500 A) ≤ 25 V (C2 - 10 kV / 5 kA) ≤ 15 V (6 kV / 3 kA)
Input attenuation aE, asym.	≤ 0.2 dB (50 Ω)
Frequency range	0.8 GHz ... 2.25 GHz
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.20 max. 1.25
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	≤ 500 W ≤ 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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 85 °C
Altitude	2000 m

Standards and regulations

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VDE requirement class	C2
	C3
	D1

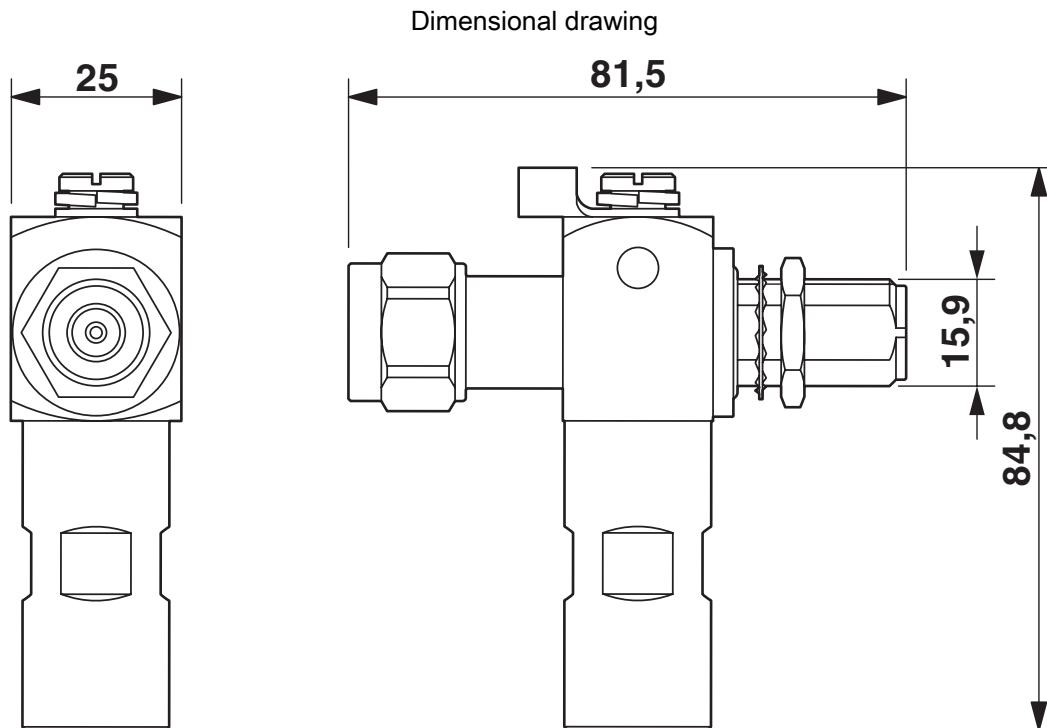
Air clearances and creepage distances

Standards/regulations	IEC 60664-1
Standards/specifications	IEC 61643-21/A1
Note	2008
Standards/specifications	EN 61643-21/A1
Note	2009

Mounting

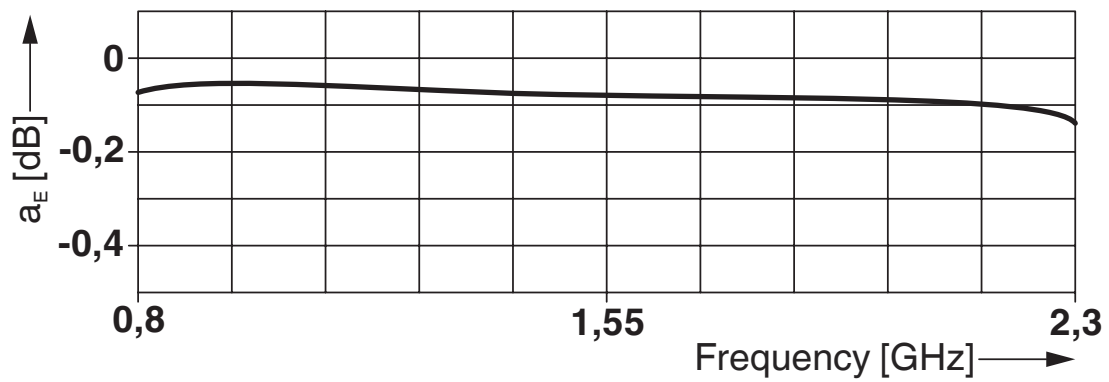
Mounting type	Connection-specific intermediate plugging
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Drawings

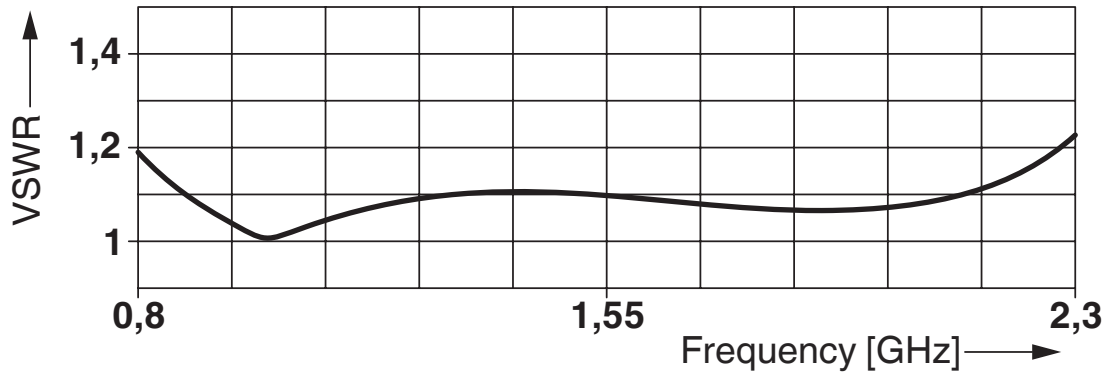


Dimensional drawing
CN-LAMBDA/4-2.25-SB

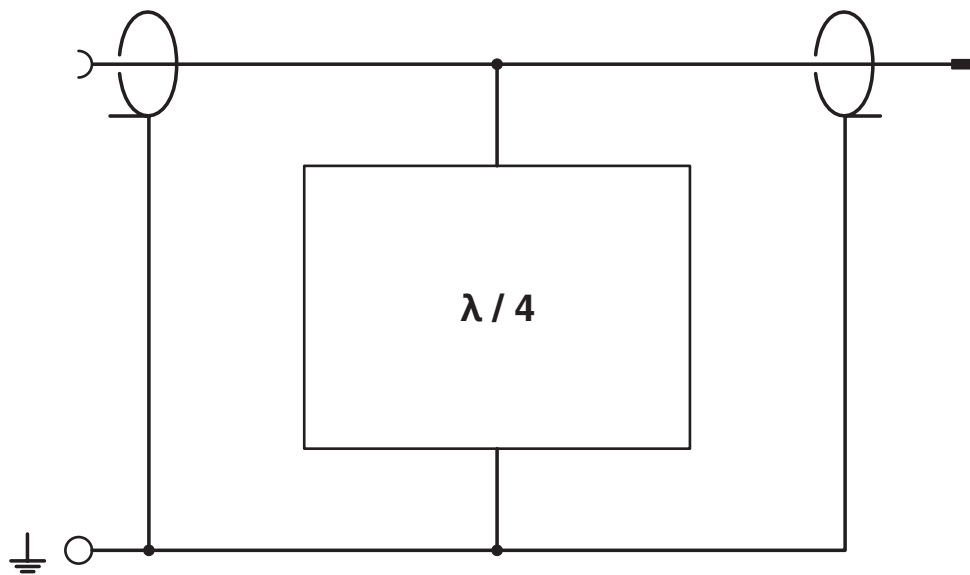
Diagram



Diagram



Circuit diagram



Circuit diagram

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Classifications

ECLASS

ECLASS-13.0	27171504
ECLASS-15.0	27171504

ETIM

ETIM 10.0	EC001466
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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	e9651d28-e0ba-4650-b1fa-961e034d92d6

EF3.1 Climate Change

CO2e kg	8.763 kg CO2e
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