

# CN-LAMBDA/4-5.9-BB - Surge protection device



2838490

<https://www.phoenixcontact.com/us/products/2838490>

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Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces.  
Connection: N connectors socket-socket

## Your advantages

- Easy installation with system-compliant connection
- Use under extreme ambient conditions with robust design
- Service-friendly with maintenance-free protective circuit
- Exceptional protective properties with Lambda/4 technology

## Commercial data

Item number	2838490
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL26
Product key	CL3312
GTIN	4046356285629
Weight per piece (including packing)	180.1 g
Weight per piece (excluding packing)	140.19 g
Customs tariff number	85363010
Country of origin	US

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## Technical data

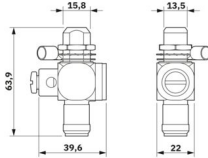
### Product properties

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

### Connection data

Connection method	N connector 50 Ω
Tightening torque	1.4 Nm ... 1.7 Nm (N coupling nut)

### Dimensions

Dimensional drawing	
Width	26.1 mm
Height	38 mm
Depth	60 mm

### Material specifications

Color	nickel color
Seal material	Silicon
Housing material	Brass (CuZn)
Housing surface material	Ni
Inner conductor material	BeCu
Inner conductor surface material	Gold
Insulation body material	PTFE

### 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	5 A (25 °C)
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	50 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-shield)	50 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s	20 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-earth)	20 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-earth)	60 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-shield)	60 kA
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	20 kA
Voltage protection level $U_p$ (line-earth)	$\leq 11$ V (6 kV / 3 kA)
Voltage protection level $U_p$ (line-shield)	$\leq 11$ V (6 kV / 3 kA)
Input attenuation aE, asym.	typ. 0.15 dB ( $\leq 0.25$ dB)
Frequency range	2.4 GHz ... 7.6 GHz
Voltage standing wave ratio VSWR in a 50 $\Omega$ system	typ. 1.10 ( $\leq 1.20$ (2.4 GHz...5.9 GHz)) $\leq 1.20$ (2.4 GHz ... 7.6 GHz)
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	$\leq 500$ W $\leq 4$ kW (peak)
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA D1 - 2.5 kA
Impulse durability (line-shield)	C2 - 10 kV/5 kA D1 - 2.5 kA

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP68 (24 h / 1 m)
Ambient temperature (operation)	-40 °C ... 90 °C

## Approvals

### Conformity/Approvals

FCC	Part 15, Part 90
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## Standards and regulations

VDE requirement class	C2 C3 D1
Standards/specifications	IEC 61643-21
Note	2005

## Mounting

Mounting type	Connection-specific intermediate plugging
Assembly note	Outdoors and indoors

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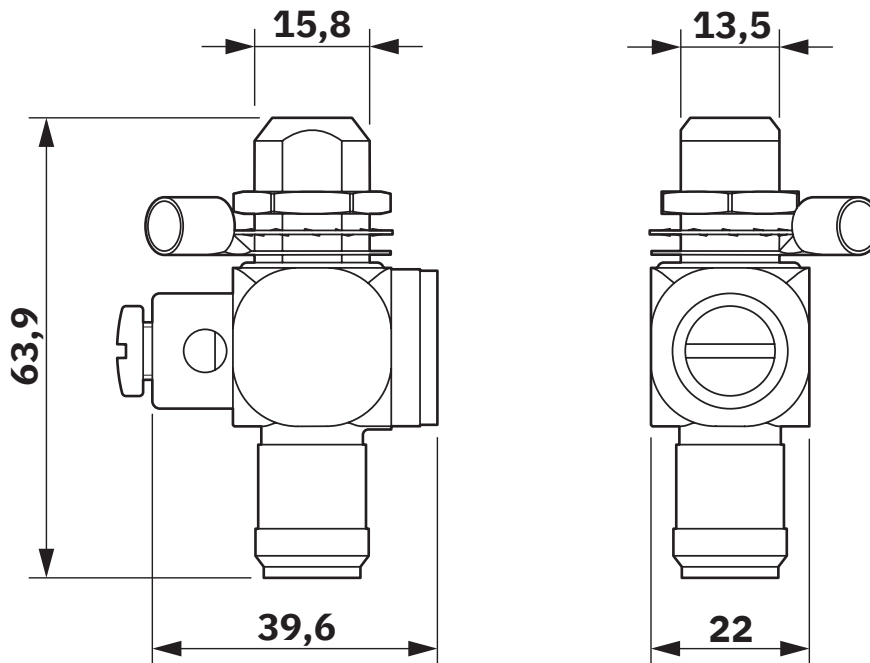


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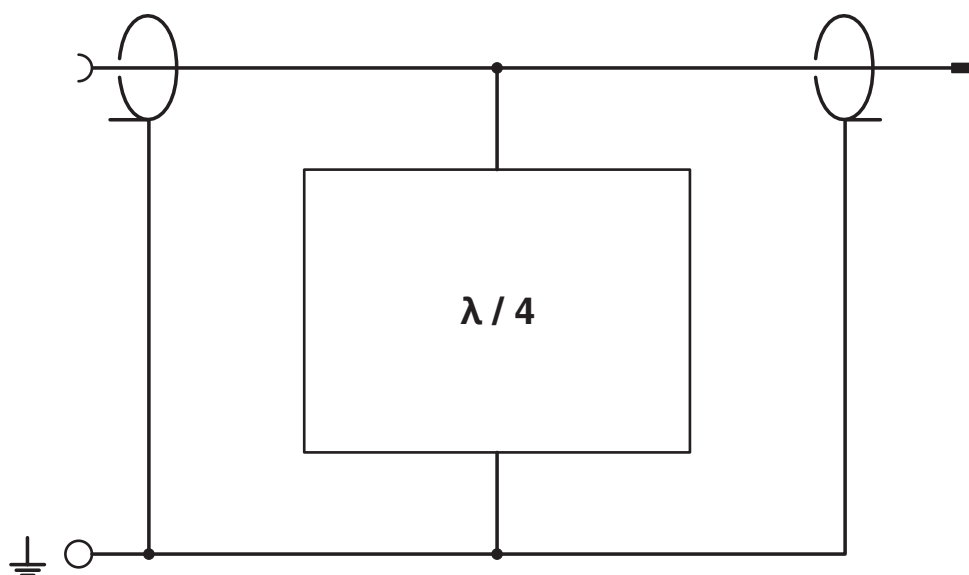
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## Drawings

Dimensional drawing



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, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	12.214 kg CO2e
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