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

2838490

https://www.phoenixcontact.com/gb/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
- Maintenance-free surge protection with LAMBDA/4 technology
- As an adapter between devices and cables
- Outdoor surge protection
- High HF power in the kW range
- Low protection level

Commercial data

Item number	2838490
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL3312
Product key	CL3312
Catalog page	Page 179 (C-4-2017)
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

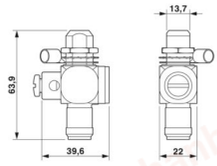
Product properties

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

Connection data

Connection method	N connector 50 Ω

Dimensions

Dimensional drawing	
Width	26.1 mm
Height	38 mm
Depth	60 mm

Material specifications

Color	Nickel
	Copper
Seal material	Silicon
Housing material	Brass (CuZn)
Housing surface material	Nickel
Inner conductor material	BeCu
Inner conductor surface material	Gold
Insulation body material	PTFE

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Direction of action	Line-Shield/Earth Ground

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Rated current	5 A (25 °C)
Nominal discharge current I_n (8/20) µs (line-ground)	50 kA
Nominal discharge current I_n (8/20) µs (line-shield)	50 kA
Pulse discharge current I_{imp} (10/350) µs	20 kA
Pulse discharge current I_{imp} (10/350) µs (line-earth)	20 kA
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	60 kA
Max. discharge current I_{max} (8/20) µs maximum (line-shield)	60 kA
Impulse discharge current (10/350) µs, peak value I_{imp}	20 kA
Voltage protection level U_p (line-earth)	≤ 11 V (6 kV / 3 kA)
Voltage protection level U_p (line-shield)	≤ 11 V (6 kV / 3 kA)
Input attenuation aE, asym.	typ. 0.15 dB (≤0.25 dB)
Frequency range	2.4 GHz ... 7.6 GHz
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.10 (≤ 1.20 (2.4 GHz...5.9 GHz))
	≤ 1.20 (2.4 GHz ... 7.6 GHz)
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)	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
Ambient temperature (operation)	-40 °C ... 90 °C

Approvals

Conformity/Approvals

FCC	Part 15, Part 90

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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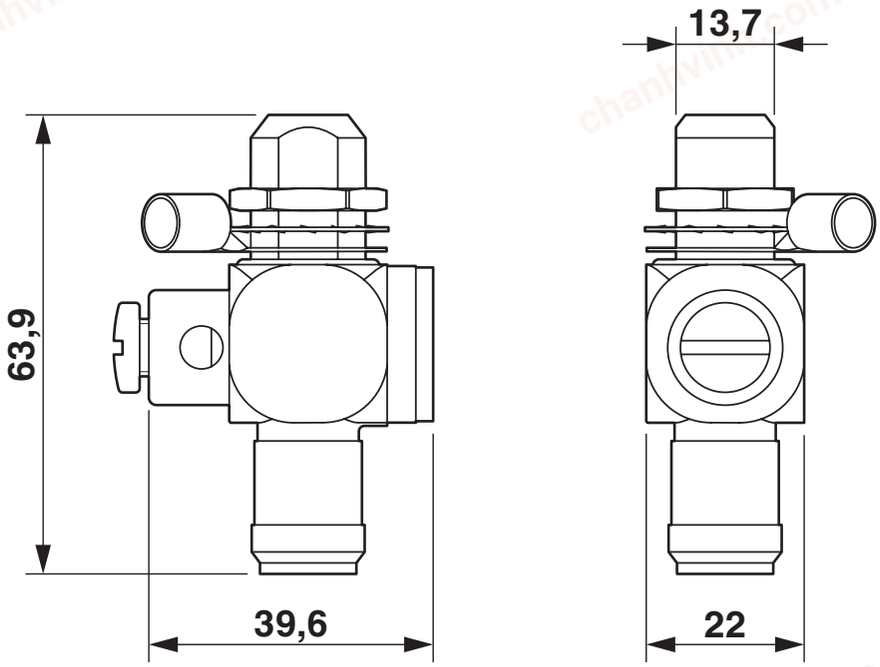
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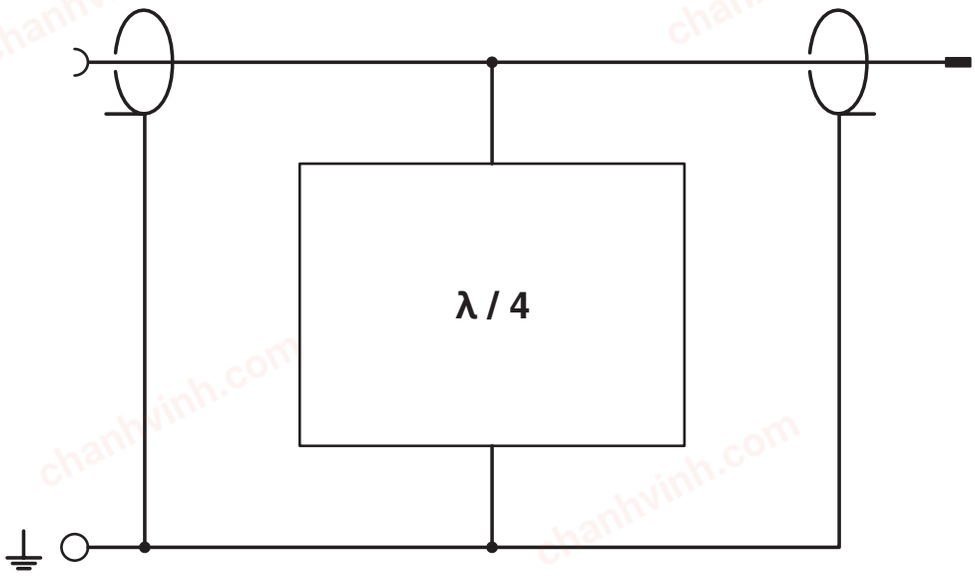
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2838490

EAC
Approval ID: EAC-Zulassung

EAC
Approval ID: RU C-DE.*09.B.00169

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943

UNSPSC

UNSPSC 21.0	39121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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Accessories

CN-UB/MP - Mounting panel

2818135

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Tongue for attaching the CN-UB..., to housing panels, for example.



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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CN-UB/MP - Mounting panel

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Tongue for attaching the CN-UB..., to housing panels, for example.



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