# CN-LAMBDA/4-2.25-BB - Surge protection device

2801057

https://www.phoenixcontact.com/gb/products/2801057

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 2801057 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL3312 |
| Product key | CL3312 |
| GTIN | 4046356679091 |
| Weight per piece (including packing) | 288.8 g |
| Weight per piece (excluding packing) | 276 g |
| Customs tariff number | 85363010 |
| Country of origin | CN |

## Technical data

### Product properties

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

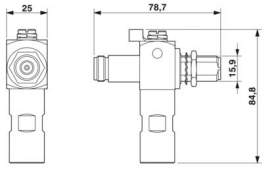
Insulation characteristics

| | |
|---|---|
| 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 | 78.7 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 |

### Mechanical properties

Mechanical data

| | |
|---|---|
| Open side panel | No |

## Protective circuit

| | |
|---|---|
| Direction of action | Line-Shield/Earth Ground |
| 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 |
| Total surge current (8/20) µs | 60 kA |
| Total surge current (10/350) µs | 20 kA |
| Total discharge current $I_{Total}$ (8/20) µs | 60 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 |
| Output voltage limitation at 1 kV/µs (line-earth) spike | ≤ 1 V |
| Output voltage limitation at 1 kV/µs (line-shield) spike | ≤ 1 V |
| Voltage protection level $U_p$ (line-earth) | ≤ 5 V (C1 - 1 kV / 500 A) |
| | ≤ 25 V (C2 - 10 kV / 5 kA) |
| | ≤ 18 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) |
| | ≤ 18 V (6 kV / 3 kA) |
| Input attenuation aE, asym. | typ. 0.1 dB |
| 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

### Air clearances and creepage distances

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

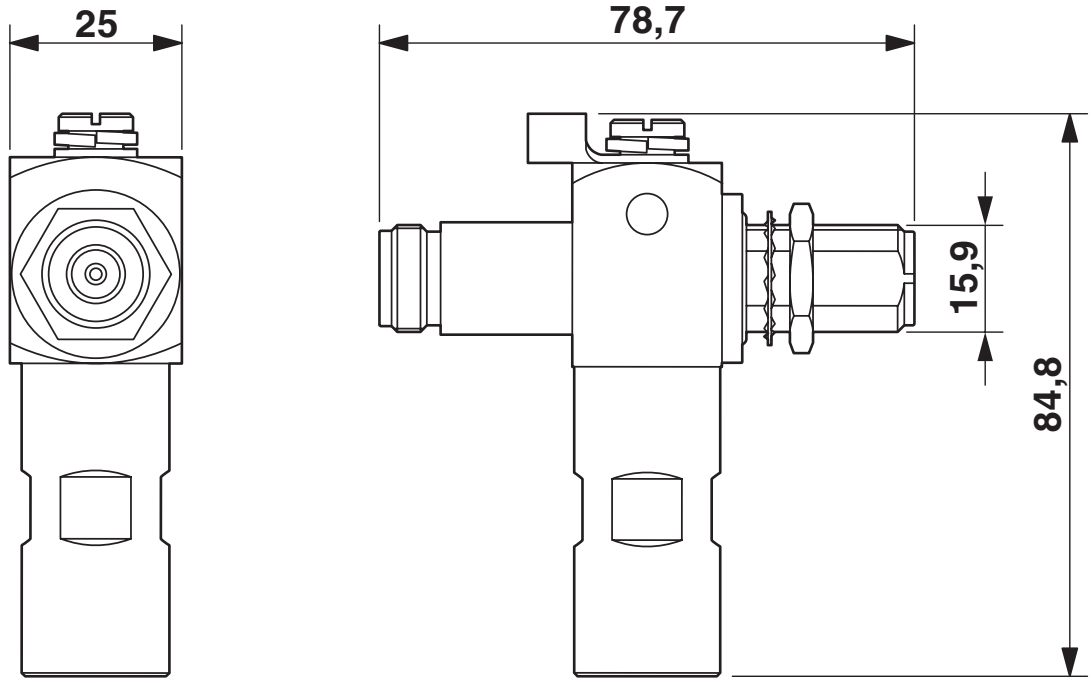
| | |
|---|---|
| Note | 2009 |

## Mounting

| | |
|---|---|
| Mounting type | Connection-specific intermediate plugging |

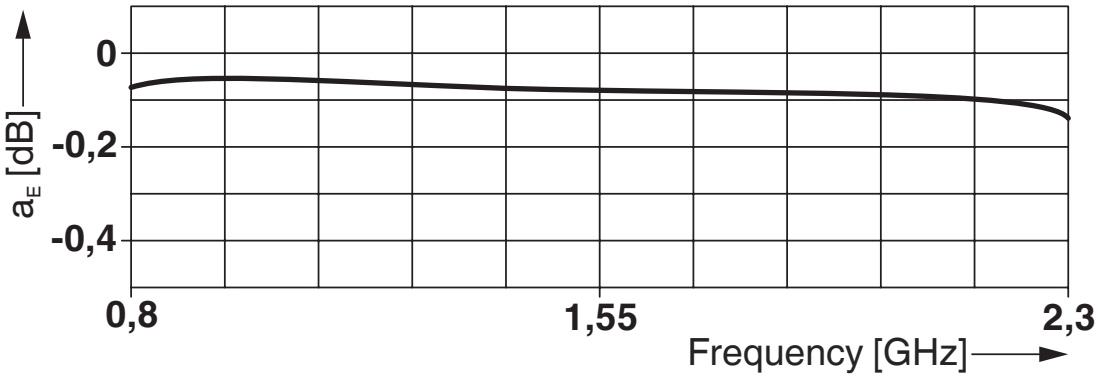
## Drawings

Dimensional drawing

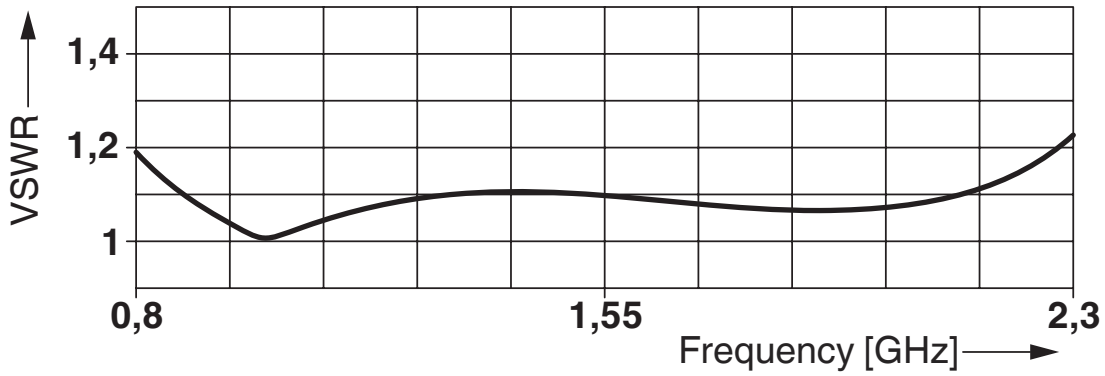



Dimensional drawing
CN-LAMBDA/4-2.25-BB

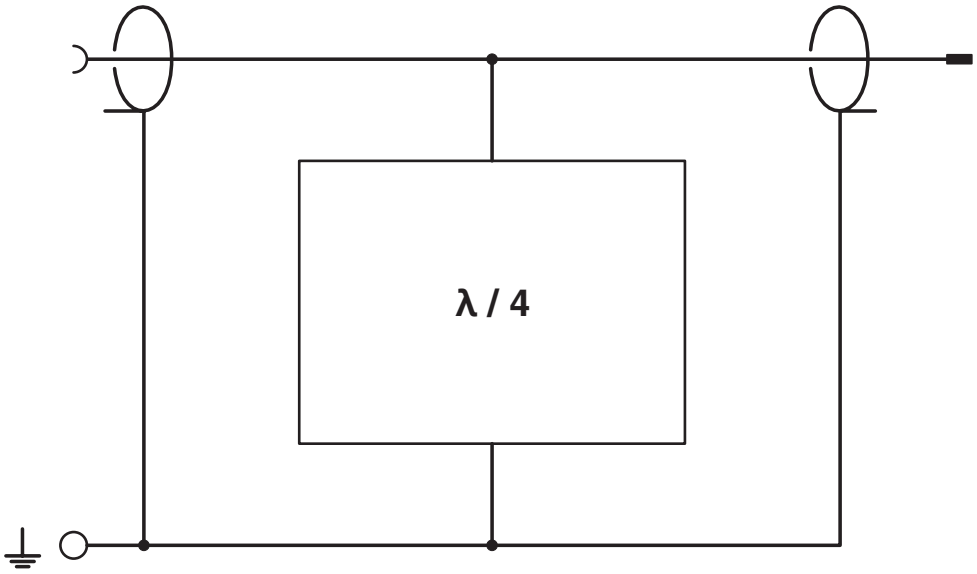
Diagram



Diagram




Circuit 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 | 027a74bc-ead0-4399-b642-54b2c92e3b64 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 4.793 kg CO2e |


Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com



PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk