

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



2800491

<https://www.phoenixcontact.com/us/products/2800491>

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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 | CL26 |
| 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 |

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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 |
|-----------------|----|

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Protective circuit

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

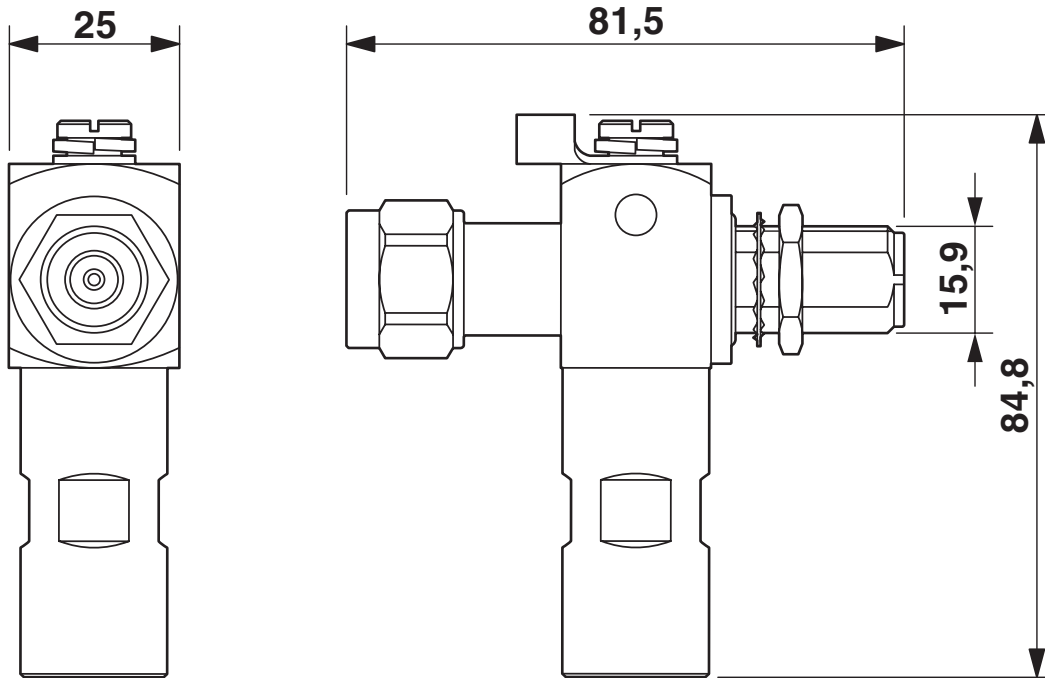
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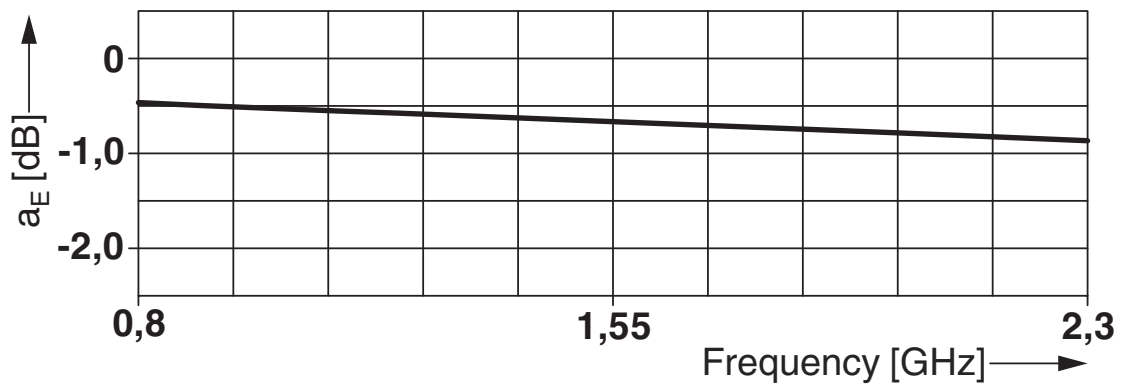
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Drawings

Dimensional drawing



Diagram



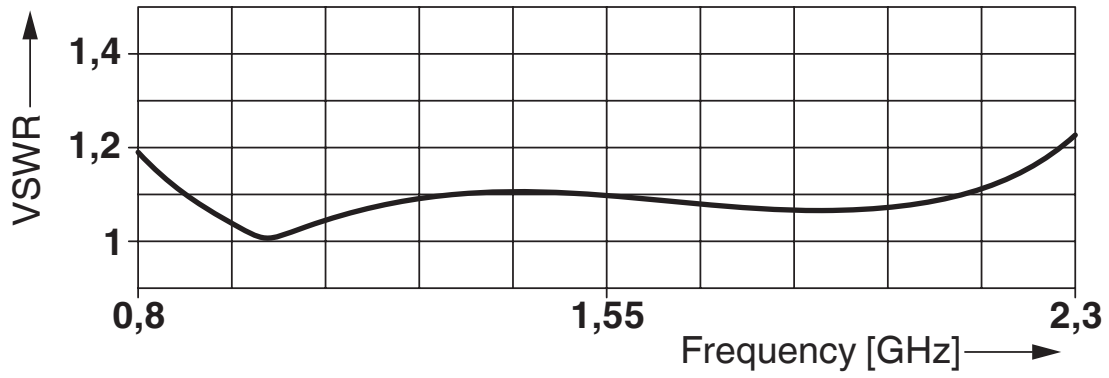
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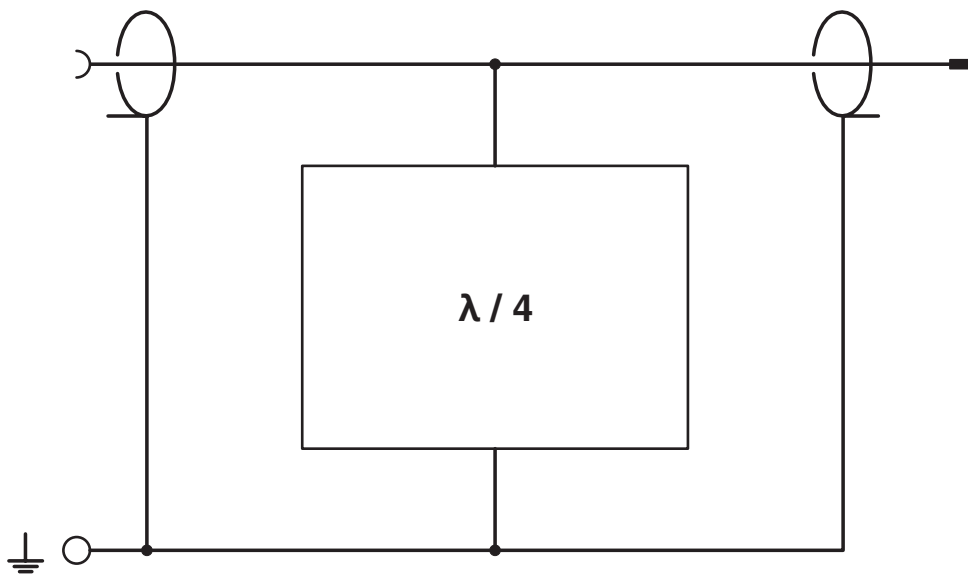
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Diagram



Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27171504 |
| ECLASS-15.0 | 27171504 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001466 |
|-----------|----------|

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 | 62a2c159-96f1-460f-ad6a-fe974b72a9e0 |

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