

# C7/16-LAMBDA/4-2.25-BB - Surge protection device



2801060

<https://www.phoenixcontact.com/us/products/2801060>

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Attachment plug with LAMBDA/4 technology as surge protection for coaxial signal interfaces.  
Connection: 7/16 connectors (socket/socket)



## Commercial data

Item number	2801060
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL26
Product key	CL3312
GTIN	4046356678261
Weight per piece (including packing)	460 g
Weight per piece (excluding packing)	460 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
Type	Intermediate plug
Number of positions	1
Surge protection fault message	none

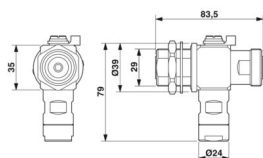
### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Connection data

Connection method	7/16 connector
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### Dimensions

Dimensional drawing	
Width	39 mm
Height	79 mm
Length	83.5 mm

### Material specifications

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
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### Protective circuit

Direction of action	Line-Shield/Earth Ground
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Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	50 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-ground)	50 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-shield)	50 kA
Total surge current (8/20) $\mu\text{s}$	60 kA
Total surge current (10/350) $\mu\text{s}$	20 kA
Max. discharge current $I_{\text{max}}$ (8/20) $\mu\text{s}$	60 kA
Max. discharge current $I_{\text{max}}$ (8/20) $\mu\text{s}$ maximum (line-earth)	60 kA
Max. discharge current $I_{\text{max}}$ (8/20) $\mu\text{s}$ maximum (line-shield)	60 kA
Impulse discharge current (10/350) $\mu\text{s}$ , peak value $I_{\text{imp}}$	20 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike	$\leq 1$ V
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-shield) spike	$\leq 1$ V
Voltage protection level $U_p$ (line-earth)	$\leq 25$ V (C2 - 10 kV / 5 kA)
	$\leq 5$ V (C1 - 1 kV / 500 A)
	$\leq 15$ V (6 kV / 3 kA)
Voltage protection level $U_p$ (line-shield)	$\leq 5$ V (C1 - 1 kV / 500 A)
	$\leq 25$ V (C2 - 10 kV / 5 kA)
	$\leq 15$ 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 $\Omega$ system	typ. 1.20
	max. 1.25
Permissible HF power $P_{\text{max}}$ at VSWR = xx (50 ohm system)	$\leq 500$ W
	$\leq 4$ 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

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Mounting type

Connection-specific intermediate plugging

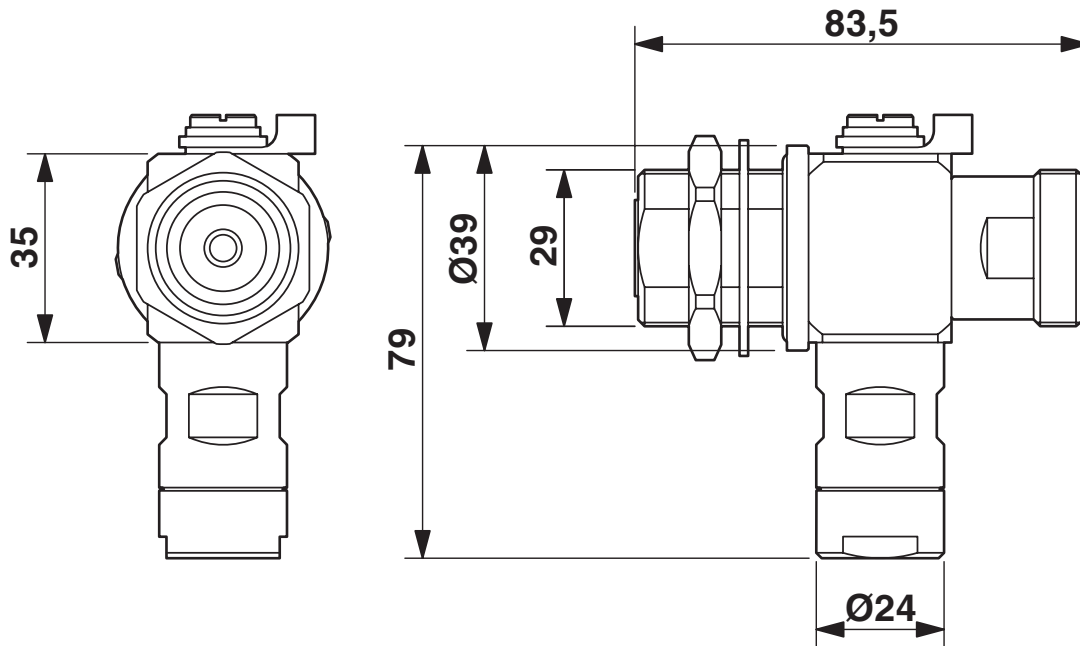
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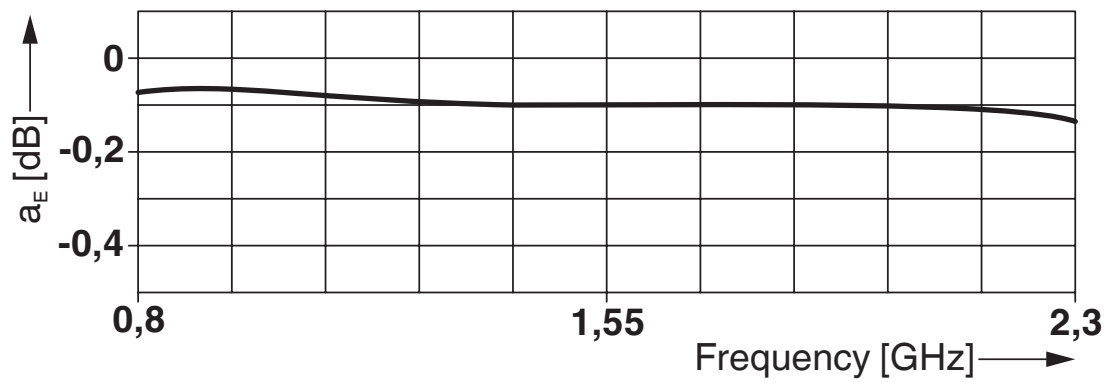
## Drawings

Dimensional drawing

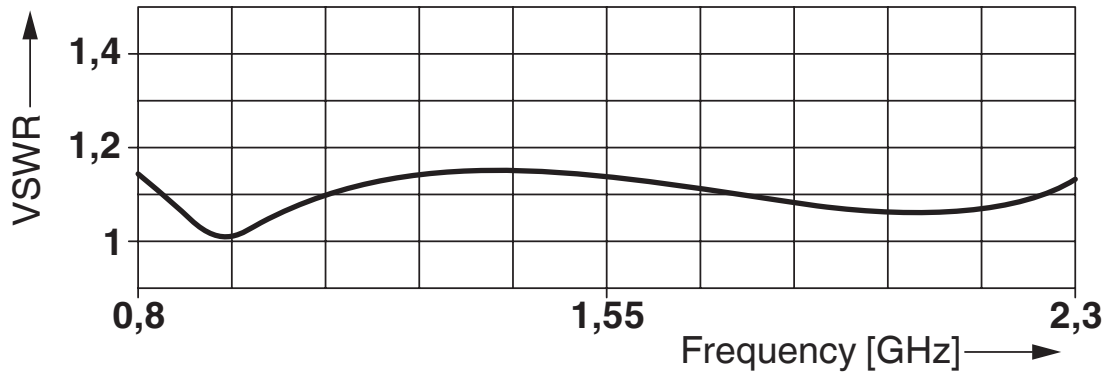


Dimensional drawing  
C7/16-LAMBDA/4-2.25-BB

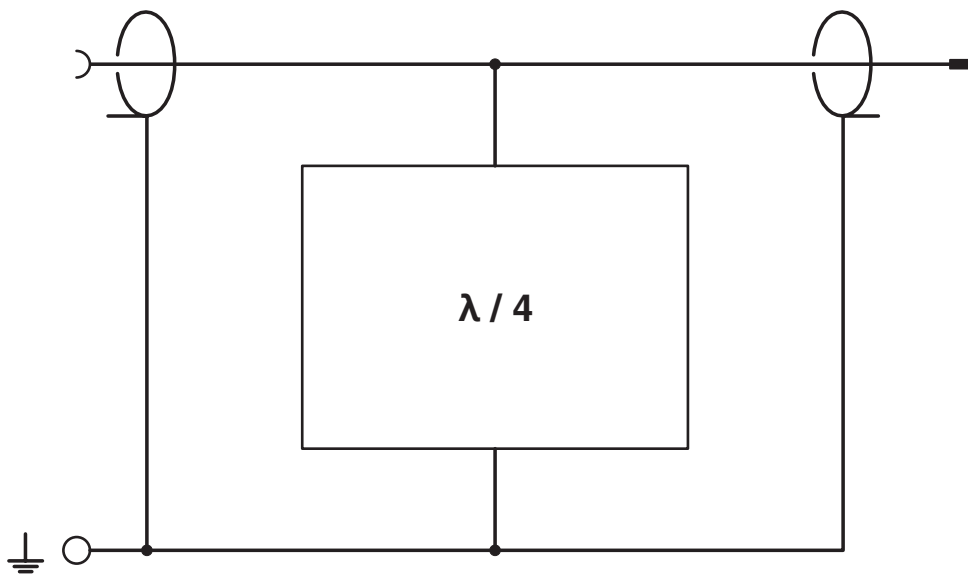
Diagram



Diagram



Circuit diagram



Circuit diagram

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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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