

## Surge protection device - CN-LAMBDA/4-2.25-SB - 2801056

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



### Product Features

- High HF power in the kW range
- Maintenance-free surge protection with LAMBDA/4 technology
- Low protection level



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	300.0 g
Custom tariff number	85363010
Country of origin	China

### Technical data

#### Dimensions

Height	81.5 mm
Width	25 mm
Length	77.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP68

#### General

Housing material	HPb59-1
Color	nickel
Standards for clearances and creepage distances	IEC 60664-1
Mounting type	Connection-specific intermediate plugging

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### Technical data

#### General

Type	Attachment plug
Number of positions	1
Direction of action	Line-Shield/Earth Ground

#### Protective circuit

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Nominal current $I_N$	5 A (25 °C)
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Earth)	50 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Shield)	50 kA
Total surge current (8/20) $\mu$ s	60 kA
Total surge current (10/350) $\mu$ s	20 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth)	60 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Shield)	60 kA
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	$\leq 20$ kA
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike	$\leq 1$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Shield) spike	$\leq 1$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) static	$\leq 1$ V
Voltage protection level $U_p$ (core-ground)	$\leq 15$ V (6 kV/3 kA)
	$\leq 5$ V (C1 - 1 kV/500 A)
	$\leq 25$ V (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (core-shield)	$\leq 25$ V (C2 - 10 kV / 5 kA)
	$\leq 5$ V (C1 - 1 kV/500 A)
	$\leq 15$ V (6 kV/3 kA)
Input attenuation aE, asym.	$\leq 0.2$ dB (50 $\Omega$ )
Frequency range	0.8 GHz ... 2.25 GHz
Standing wave ratio SWR in a 50 $\Omega$ system	typ. 1.2
	max. 1.25
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	$\leq 500$ W
	$\leq 4$ kW (peak)
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	D1 - 2,5 kA

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## Technical data

### Connection data

Connection method	N connector 50 Ω
Connection type IN	N connector, male
Connection type OUT	N connector, female

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

### ETIM

ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

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Approvals

EAC / EAC

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Ex Approvals

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## Approvals

Approvals submitted

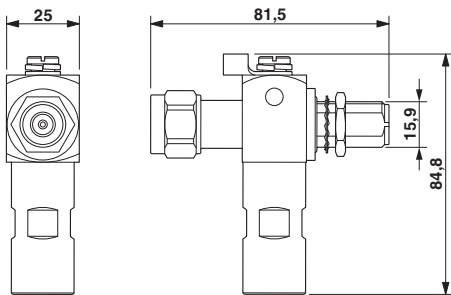
### Approval details

EAC

EAC

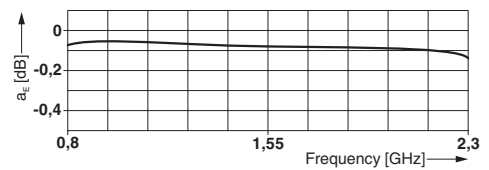
## Drawings

Dimensional drawing

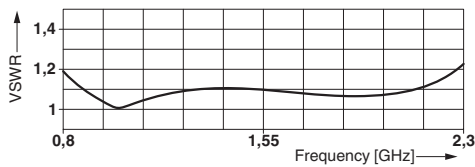


Dimensional drawing  
CN-LAMBDA/4-2.25-SB

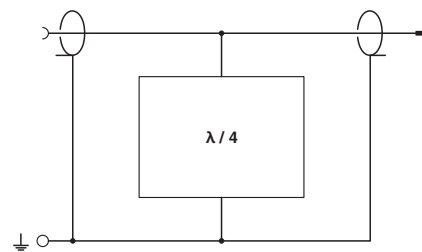
Diagram



Diagram



Circuit diagram



Circuit diagram