

CN-LAMBDA/4-2.2-BB - Surge protection device



2800024

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



Commercial data

Item number	2800024
Packing unit	1 pc
Sales key	NULL
Product key	CL3312
GTIN	4046356367967
Weight per piece (including packing)	191 g
Weight per piece (excluding packing)	191 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	Intermediate plug
Surge protection fault message	none

Connection data

Connection method	N connector 50 Ω
Tightening torque	1.4 Nm ... 1.7 Nm (N coupling nut)

Dimensions

Width	26.1 mm
Height	66 mm
Depth	83 mm

Material specifications

Color	nickel color
Seal material	Silicon
Housing material	Brass (CuZn)
Housing surface material	Ni
Inner conductor material	BeCu
Inner conductor surface material	Gold
Insulation body material	PTFE

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Shield/Earth Ground
Nominal current I_N	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
Total surge current (8/20) μs	60 kA

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Total surge current (10/350) μs	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
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 12 \text{ V}$ (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 12 \text{ V}$ (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 12 \text{ V}$ (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μs (line-shield) static	$\leq 12 \text{ V}$ (6 kV / 3 kA)
Voltage protection level U_p (line-earth)	$\leq 12 \text{ V}$ (6 kV / 3 kA)
Voltage protection level U_p (line-shield)	$\leq 12 \text{ V}$ (6 kV / 3 kA)
Input attenuation aE, asym.	typ. 0.05 dB ($\leq 0.15 \text{ dB}$)
Frequency range	0.82 GHz ... 2.2 GHz
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.10 (≤ 1.20 (0.82 GHz...2.2 GHz))
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	$\leq 500 \text{ W}$ $\leq 4 \text{ kW}$ (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

Standards and regulations

VDE requirement class	C2
	C3
	D1

Standards Information technology specification

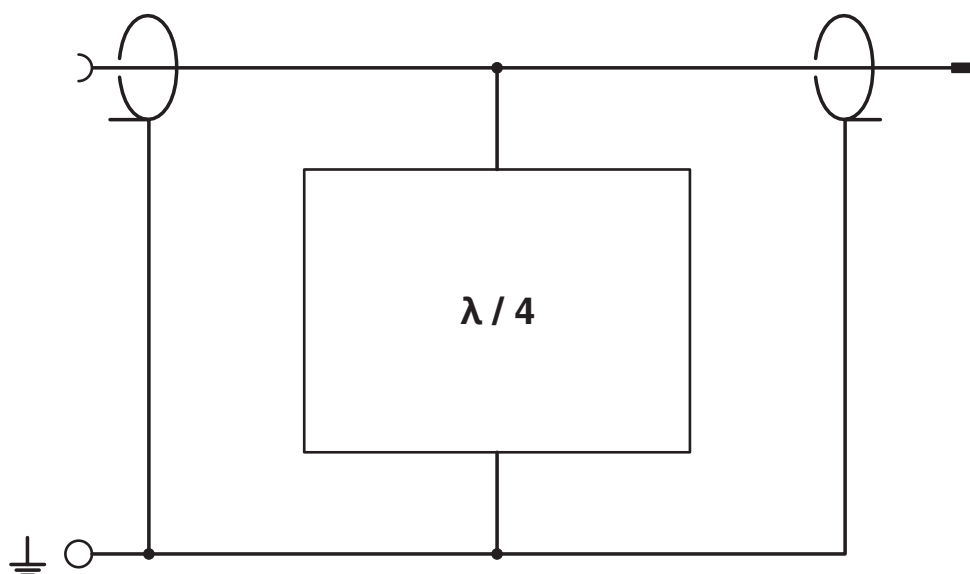
Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2005

Mounting

Mounting type	Connection-specific intermediate plugging
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Drawings

Circuit diagram



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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EU REACH SVHC

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