CN-LAMBDA/4-0.47-BB - Surge protection device

2800021

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

Your advantages

- Easy installation with system-compliant connection
- Use under extreme ambient conditions with robust design
- Service-friendly with maintenance-free protective circuit
- Exceptional protective properties with Lambda/4 technology

Commercial data

Item number	2800021
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL26
Product key	CL3312
GTIN	4046356367943
Weight per piece (including packing)	193.8 g
Weight per piece (excluding packing)	187.7 g
Customs tariff number	85363010
Country of origin	US

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
Number of positions	1
Surge protection fault message	none

Connection data

Connection method	N Connector
Tightening torque	1.4 Nm ... 1.7 Nm (N coupling nut)

Dimensions

Width	32 mm
Height	32 mm
Depth	83 mm

Material specifications

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

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)	20 kA
Nominal discharge current I_n (8/20) µs (line-shield)	20 kA
Pulse discharge current I_{imp} (10/350) µs	≤ 15 kA
Total discharge current I_{Total} (8/20) µs	30 kA

Total discharge current I_{Total} (10/350) µs	15 kA
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	30 kA
Max. discharge current I_{max} (8/20) µs maximum (line-shield)	30 kA
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/µs (line-shield) spike	≤ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/µs (line-shield) static	≤ 55 V (6 kV / 3 kA)
Voltage protection level U_p (line-earth)	≤ 95 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	≤ 95 V (C2 - 10 kV / 5 kA)
Input attenuation aE, asym.	typ. 0.05 dB (≤ 0.10 dB)
Frequency range	380 MHz ... 470 MHz
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.05 (≤ 1,15)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	≤ 800 W
	≤ 4 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

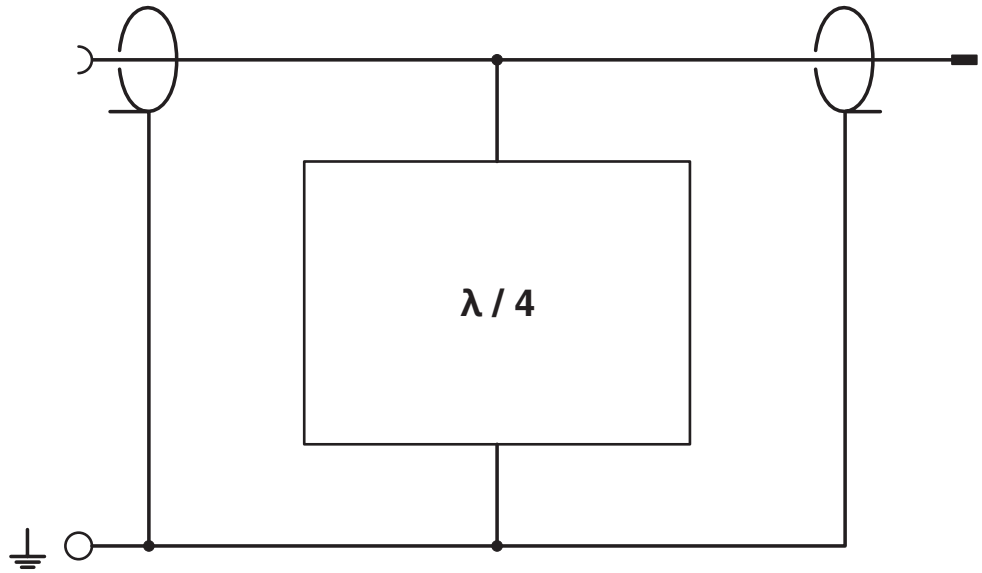
Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2005

Mounting

Mounting type	Connection-specific intermediate plugging

Drawings

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, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

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

EF3.1 Climate Change

CO2e kg	21.375 kg CO2e

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