

Surge protection device - CN-LAMBDA/4-0.47-SB - 2800022

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

Product Features

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



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	200.0 g
Custom tariff number	85363010
Country of origin	United States

Technical data

Dimensions

Height	32 mm
Width	32 mm
Depth	81 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 90 °C
Degree of protection	IP68

General

Housing material	Brass (CuZn)
Color	nickel
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug

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Technical data

General

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) μ s (Core-Earth)	20 kA
Nominal discharge current I_n (8/20) μ s (Core-Shield)	20 kA
Total surge current (8/20) μ s	30 kA
Total surge current (10/350) μ s	15 kA
Max. discharge current I_{max} (8/20) μ s maximum (Core-Earth)	30 kA
Max. discharge current I_{max} (8/20) μ s maximum (Core-Shield)	30 kA
Impulse discharge current (10/350) μ s, peak value I_{imp}	≤ 15 kA
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 55 V (6 kV/3 kA)
Output voltage limitation at 1 kV/ μ s (Core-Shield) spike	≤ 55 V (6 kV/3 kA)
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 55 V
Output voltage limitation at 1 kV/ μ s (Core-Shield) static	≤ 55 V
Voltage protection level U_p (core-ground)	≤ 95 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (core-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
Standing wave ratio SWR in a 50 Ω system	typ. 1.05 ($\leq 1,15$)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	≤ 800 W
	≤ 4 kW (peak)
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 2,5 kA
Impulse durability (conductor-shield)	C2 - 10 kV/5 kA
	D1 - 2.5 kA

Connection data

Connection method	N Connector
Connection type IN	N connector, male
Connection type OUT	N connector, female

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Technical data

Standards and Regulations

Standards/regulations	IEC 61643-21
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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 2.0	EC000943
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

Approvals

EAC

Ex Approvals

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Approvals

Approvals submitted

Approval details

EAC

Accessories

Accessories

Assembly adapter

Mounting plate - CN-UB/MP - 2818135



Tongue for attaching the CN-UB..., to housing panels, for example.

Mounting plate - CN-UB/MP-90DEG-50 - 2803137



Angled bracket for individually fixing CN-UB... to housing panels, for example.

Coaxial adapter

Adapter - RAD-ADP-N/M-SMA/F - 2917036



Adapter, N (male) -> SMA (female); insertion attenuation < 0.3 dB at 2.4 GHz

Coaxial cable

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Accessories

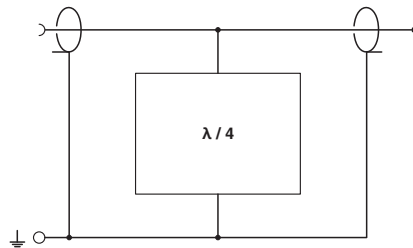
Antenna cable - RAD-PIG-EF316-MCX-N - 2867681



Adapter cable, 50 cm pigtail, MCX (male) -> N (male), 50 Ω impedance

Drawings

Circuit diagram



Mouser Electronics

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