C7/16-LAMBDA/4-2.25-SB - Surge protection device

2801059

https://www.phoenixcontact.com/us/products/2801059

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

Commercial data

Item number	2801059
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL26
Product key	CL3312
GTIN	4046356678254
Weight per piece (including packing)	485 g
Weight per piece (excluding packing)	485 g
Customs tariff number	85363010
Country of origin	CN

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

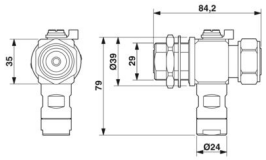
Insulation characteristics

Overvoltage category	III
Pollution degree	2

Connection data

Connection method	7/16 connector

Dimensions

Dimensional drawing	
Width	39 mm
Height	79 mm
Length	84.2 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

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	50 kA
Nominal discharge current I_n (8/20) µs (line-ground)	50 kA
Nominal discharge current I_n (8/20) µs (line-shield)	50 kA
Total surge current (8/20) µs	60 kA
Total surge current (10/350) µs	20 kA
Max. discharge current I_{max} (8/20) µs	60 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	≤ 1 V
Output voltage limitation at 1 kV/µs (line-shield) spike	≤ 1 V
Voltage protection level U_p (line-earth)	≤ 25 V (C2 - 10 kV / 5 kA)
	≤ 5 V (C1 - 1 kV / 500 A)
	≤ 15 V (6 kV / 3 kA)
Voltage protection level U_p (line-shield)	≤ 25 V (C2 - 10 kV / 5 kA)
	≤ 5 V (C1 - 1 kV / 500 A)
	≤ 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 Ω system	typ. 1.20
	max. 1.25
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	≤ 500 W
	≤ 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

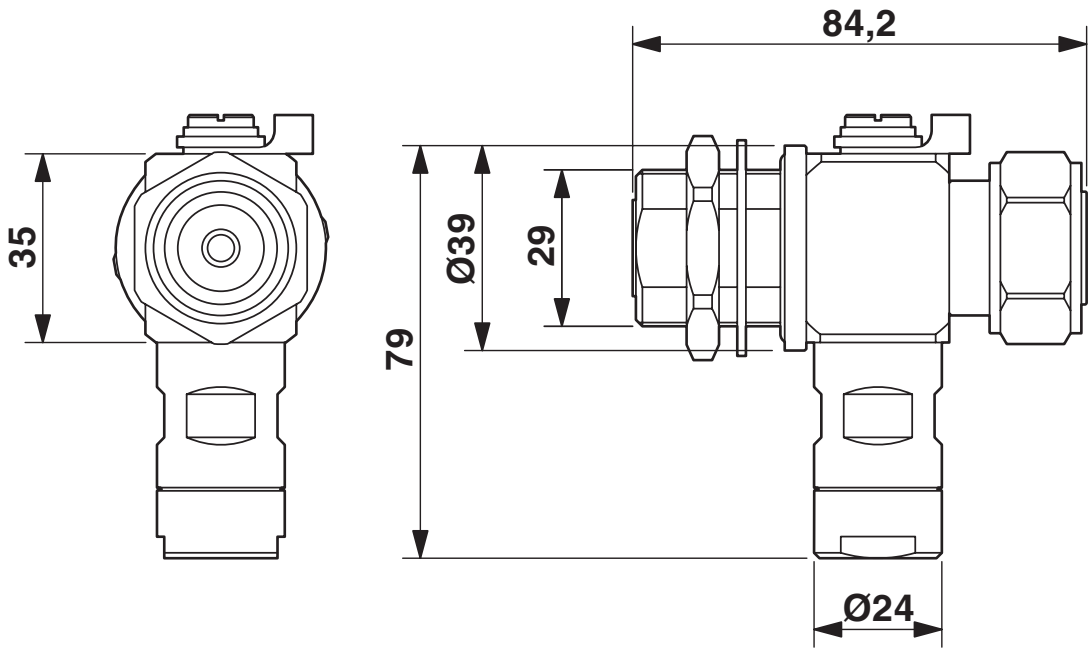
Standards/regulations	IEC 60664-1
Standards/specifications	IEC 61643-21/A1
Note	2008
Standards/specifications	EN 61643-21/A1
Note	2009

Mounting

Mounting type	Connection-specific intermediate plugging

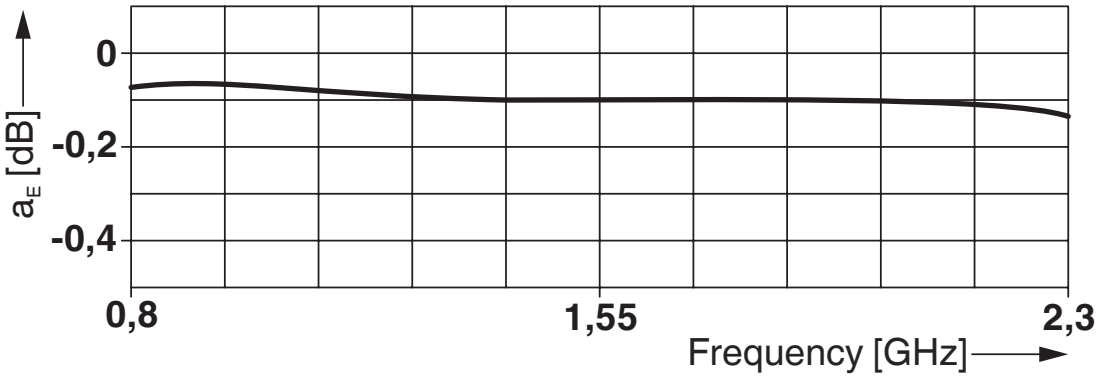
Drawings

Dimensional drawing

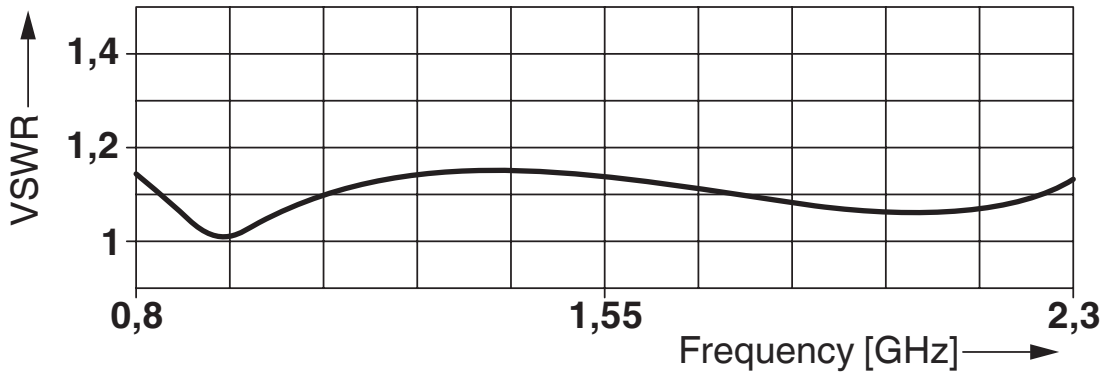


Dimensional drawing
C7/16-LAMBDA/4-2.25-SB

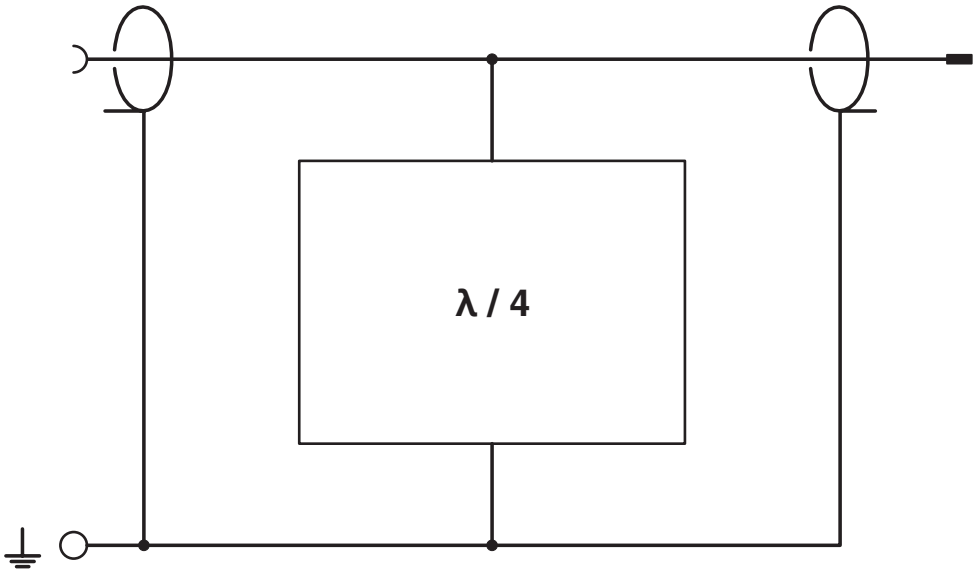
Diagram



Diagram



Circuit diagram



Circuit diagram

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