

# RF-TRAB - Surge protection device



2782135

<https://www.phoenixcontact.com/us/products/2782135>

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Attachment plug with replaceable surge protection for coaxial signal interfaces, transmission capacity  $\leq 200$  W. Connection: UHF female/female.



## Commercial data

Item number	2782135
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3316
GTIN	4017918069377
Weight per piece (including packing)	80.18 g
Weight per piece (excluding packing)	80.18 g
Customs tariff number	85363010
Country of origin	DE

## Technical data

### Notes

#### General

Note	To meet the discharge conditions for DC voltages, please note the following information: "The surge protective device should be used together with a transmitter unit, which shuts down in the event of a short-circuit."
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### Product properties

Product type	Surge protection for transceiver systems
IEC test classification	C2
	C3
	D1
Type	Intermediate plug
Surge protection fault message	none

#### Insulation characteristics

Overvoltage category	III
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### Connection data

Connection method	UHF connector
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### Dimensions

Width	60.5 mm
Height	40 mm
Depth	18.1 mm

### Material specifications

Housing material	Nickel-plated brass
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### Mechanical properties

#### Mechanical data

Open side panel	No
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### Protective circuit

Direction of action	Line-Shield/Earth Ground
Maximum continuous operating voltage $U_C$	130 V AC
Nominal current $I_N$	10 A (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 1 \mu A$
Protective conductor current $I_{PE}$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)	10 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-shield)	10 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (line-earth)	2.5 kA

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Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-shield)	2.5 kA
Total surge current (8/20) $\mu$ s	10 kA
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	2.5 kA
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq$ 600 V
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) spike	$\leq$ 600 V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq$ 600 V
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) static	$\leq$ 600 V
Voltage protection level $U_p$ (line-earth)	$\leq$ 600 V
Voltage protection level $U_p$ (line-shield)	$\leq$ 600 V
Response time $t_A$ (line-earth)	$\leq$ 100 ns
Response time $t_A$ (line-shield)	$\leq$ 100 ns
Input attenuation aE, asym.	typ. 0.3 dB ( $\leq$ 250 MHz / 50 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (shield) in 50 $\Omega$ system	typ. 950 MHz
Voltage standing wave ratio VSWR in a 50 $\Omega$ system	$\leq$ 1.20 ( $\leq$ 80 MHz)
	$\leq$ 1.50 ( $\leq$ 200 MHz)
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	300 W (VSWR = 1.1)
	80 W (VSWR = $\infty$ )
Capacity	typ. 2 pF
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... -90 °C
Altitude	$\leq$ 2000 m (amsl)

## Standards and regulations

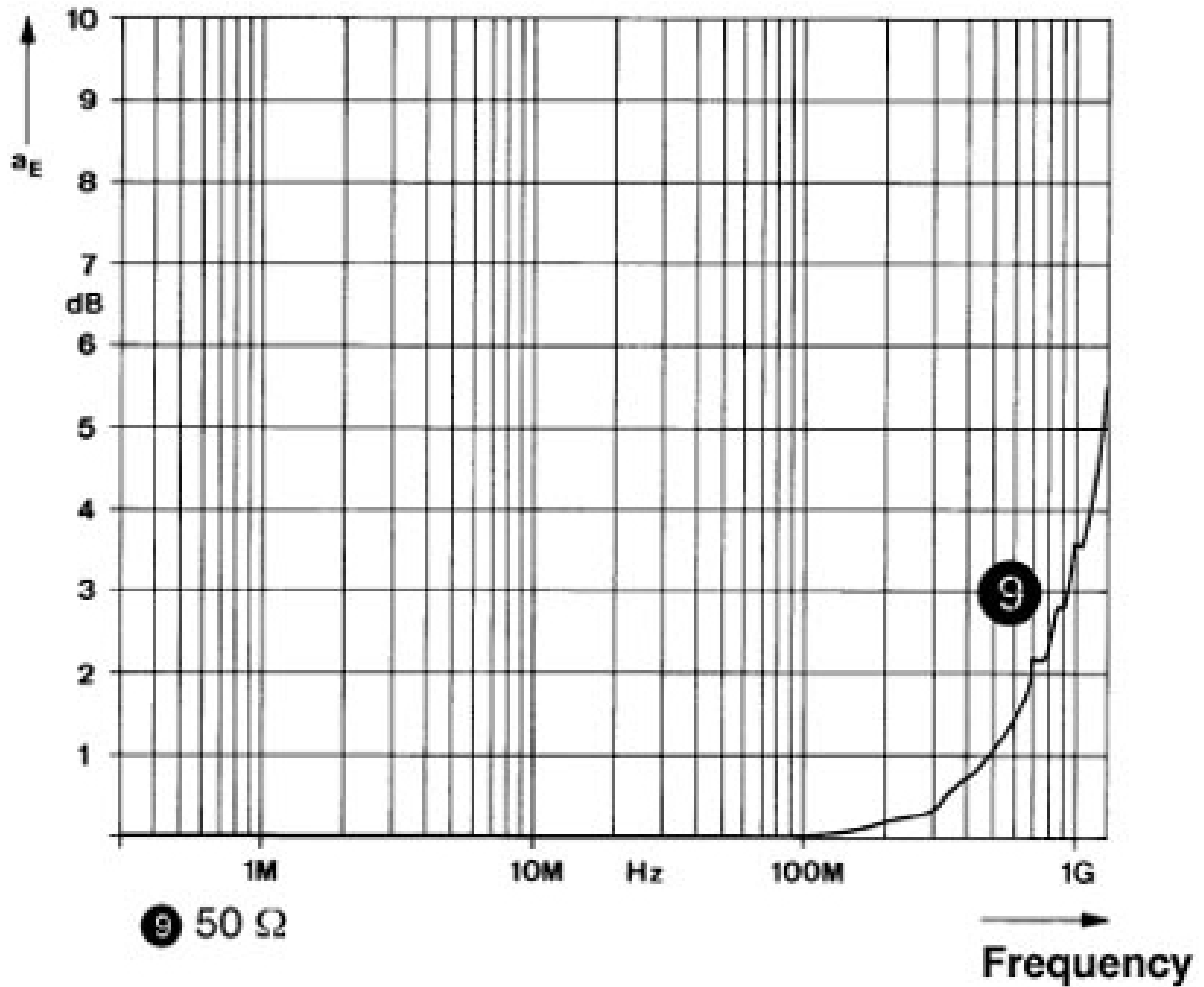
Standards/specifications	IEC 61643-21
Note	2000-09

## Mounting

Mounting type	Connection-specific intermediate plugging
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## Drawings

### Diagram



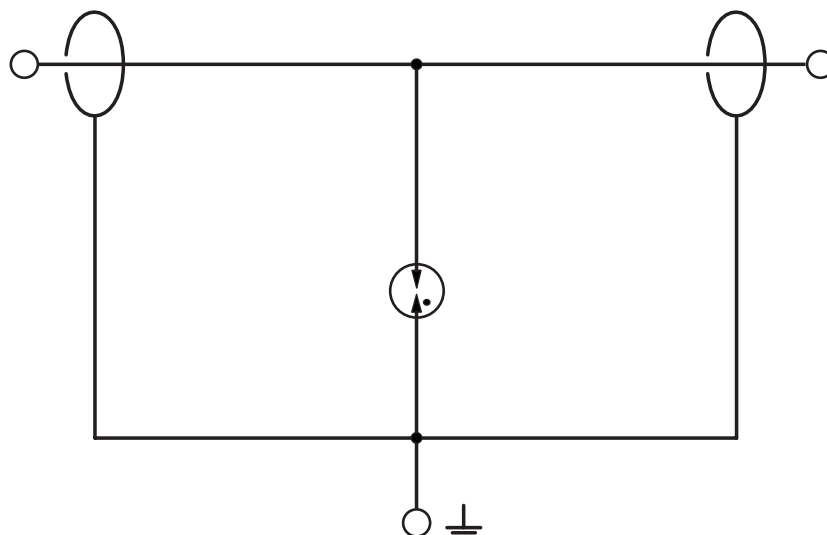
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Circuit diagram



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## Environmental product compliance

EU REACH SVHC

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