

# RF-TRAB-A1 - Surge protection device



2782575

<https://www.phoenixcontact.com/us/products/2782575>

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Screw-on module with surge protection, for coaxial signal interfaces with floating shield, transmission power 200 W, connection: UHF connector

## Commercial data

Item number	2782575
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	CL3316
GTIN	4017918069629
Weight per piece (including packing)	113.11 g
Weight per piece (excluding packing)	101.948 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Product properties

Product type	Surge protection for transceiver systems
IEC test classification	C2
	C3
	D1
Type	Intermediate plug

### Connection data

Connection method	UHF connector
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### Material specifications

Housing material	Aluminum
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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
Maximum continuous voltage $U_C$ (line-earth)	130 V AC
Protective conductor current $I_{PE}$	$\leq 2 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-shield)	5 kA
Total surge current (8/20) $\mu s$	10 kA
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike	$\leq 450 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-shield) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) static	$\leq 450 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-shield) static	$\leq 650 V$
Voltage protection level $U_p$ (line-earth)	$\leq 450 V$
Voltage protection level $U_p$ (line-shield)	$\leq 650 V$
Response time $t_A$ (line-earth)	$\leq 100 ns$
Response time $t_A$ (line-shield)	$\leq 100 ns$
Input attenuation aE, asym.	0.3 dB ( $\leq 150 MHz$ )
Cut-off frequency $f_g$ (3 dB), asym. (shield) in 50 $\Omega$ system	typ. 550 MHz
Voltage standing wave ratio VSWR in a 50 $\Omega$ system	$\leq 1.20$ ( $\leq 80 MHz$ )
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	300 W (VSWR = 1.1)
	80 W (VSWR = $\infty$ )
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

## Standards and regulations

### Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2000

## Mounting

Mounting type	Connection-specific intermediate plugging
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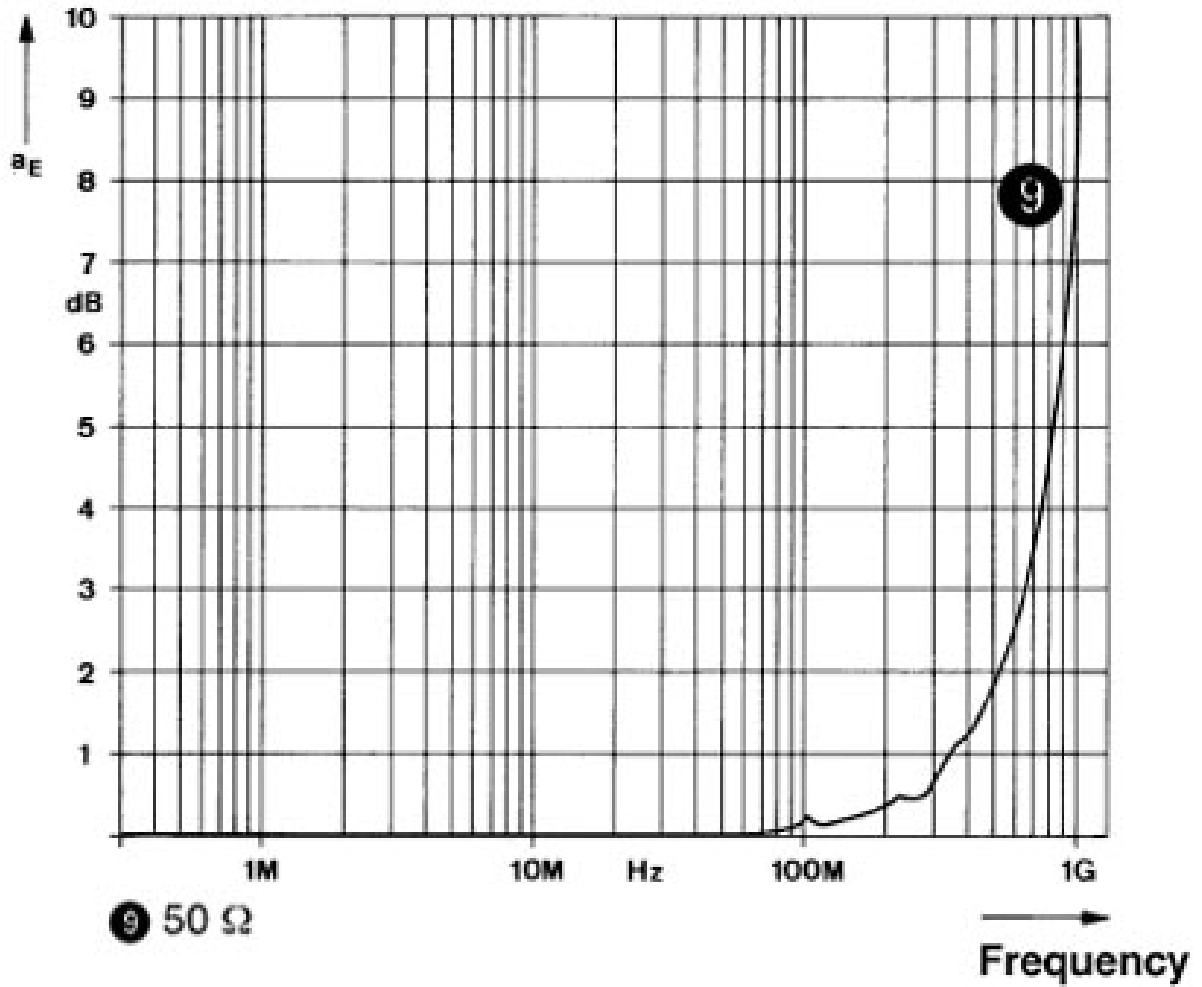


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## Drawings

### Diagram



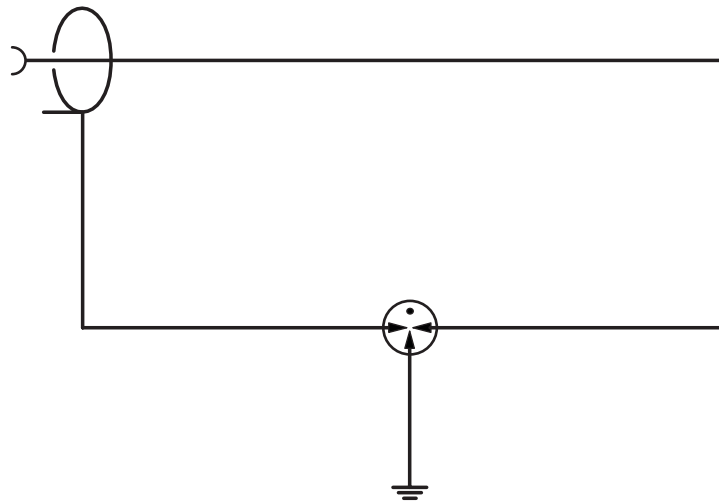
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Circuit diagram



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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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