

HIGH-VOLTAGE DIVIDER 967 HVD

This flat, ceramic-based high-voltage divider consists of two individually adjustable resistors and meets all requirements for low induction and stable passive components.

Also available as a network with more than two resistors on request.

This product is available in a wide variety of configurations. You specify the desired power, dimensions, and resistance value, and we will design the appropriate resistor element based on your specifications.

Advantages

- Excellent long-term stability
- Very high accuracy
- Low inductance
- Flat design

Application Examples

- High-voltage measurement
- X-ray generators
- Spectrometers
- Voltage sensors



Electrical Data	
Resistance Value	Freely selectable, see table
Tolerances absolute	±1 %, ±2 %, ±5 %, ±10 % Further values on request
Tolerances ratio	0.5 %, 1 %, 2 %, 5 % Further values on request
Temperature Coefficient absolute	±25 ppm/°C, ±50 ppm/°C, ±100 ppm/°C, ±200 ppm/°C
Temperature Coefficient ratio	±15 ppm/°C, ±25 ppm/°C, ±50 ppm/°C, ±100 ppm/°C, ±200 ppm/°C
Insulation Resistance	>10,000 MΩ (500 V, 25 °C, 75 % RH)
Dielectric Strength of the Insulation	>1,000 VDC (25 °C, 75 % RH)
Long-term Stability	1,000 h at 125 °C and P _{nom} , ΔR ±0.2 %

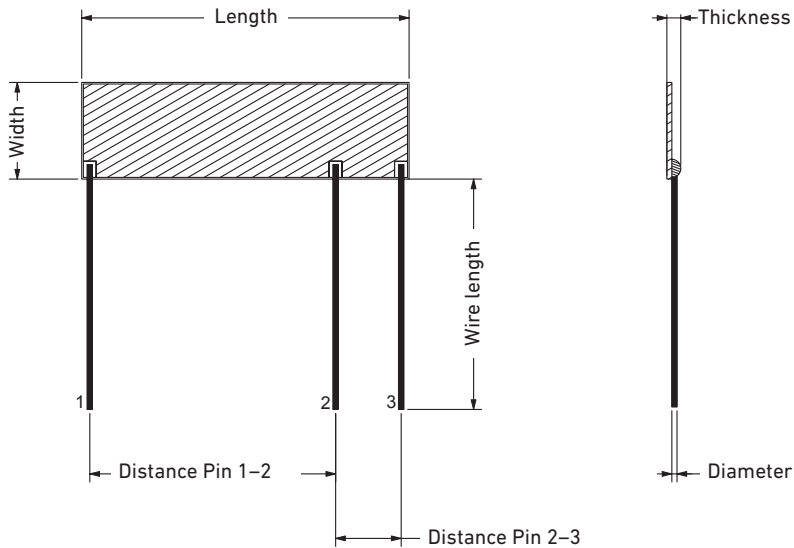
Mechanical Data	
Dimensions	See table
Max. Thickness of Resistor	2,5 mm / 0,1 inch

Environmental Data	
Operating Temperature	-50 °C up to +175 °C, max. 220 °C
Storage Temperature	0 °C up to +85 °C at 80 % RH max. for min. 12 months
Thermal Shock	MIL-Std-202, Method 107, Cond C, ΔR 0.4 % max.
Moisture Resistance	MIL-Std-202, Method 106, Cond C, ΔR 0.25 % max.

Produkt Overview												
Series and sizes	Power at 40° C	Operating Voltage DC in Air	Operating Voltage DC in Oil	Resistance Values		Divider Ratio		Width	Length	Distance between Pin 1 and Pin 2	Distance between Pin 2 and Pin 3	Approx. Weight
	W	kV	kV	Min. Ω	Max. Ω	Min.	Max.	mm / inches	mm / inches	mm / inches	mm / inches	g
HVD 967.8.26	0.5	8	12	1.5M	150M	1:150	1:1,000	8.0 / 0.31	25.4 / 1.0	17.8 / 0.7	5.08 / 0.2	0.93
HVD 967.13.38	1.2	15	22	5M	500M	1:500	1:5,000	13.0 / 0.51	38.5 / 1.25	27.94 / 1.1	7.62 / 0.3	2.20
HVD 967.15.51	1.8	24	46	10M	1.5G	1:500	1:6,000	15.0 / 0.59	50.8 / 2.0	38.1 / 1.5	10.16 / 0.4	3.42
HVD 967.15.76	2.4	32	49	15M	2G	1:1,000	1:10,000	15.5 / 0.61	76.2 / 3.0	63.5 / 2.5	10.16 / 0.4	5.10

Mechanical Tolerances ± 0.2 mm

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Electrical connection

Connection wire tinned copper, Ø 0.8 mm, length approx. 36 mm / 1.42 inches, radially mounted

Other connections and lengths on request

	Order No.	Usable in air	Usable in Insulating oil	Usable in Insulating gas SF6	Silicone potting	Epoxy potting	Temperature resistance
Polymer Coating	B	•		•	•	•	175 °C
Polymer Coating	D		•				175 °C
Glass	G	•	•	•	•		250 °C
Silicone Cement	U	•		•	•	•	250 °C
Without Protective Coating	0	•	•	•	•		

Order Information

For an order, we need the following information:

Series	Size	Location of the Connections	Protective Coating		Resistance Value	Tolerance		Temperature Coefficient		Product Labeling
			1. layer	2. layer		absolute	ratio	absolute	ratio	
HVD	967.8.26	R radial	G	B	Please specify	±1 % (F)	±0,5 % (D)	±25 ppm/°C (E)	±15 ppm/°C (A)	P Standard
	967.13.38	X	0	D		±2 % (G)	±1 % (F)	±50 ppm/°C (F)	±25 ppm/°C (E)	0
	967.15.51			U		±5 % (J)	±2 % (G)	±100 ppm/°C (S)	±50 ppm/°C (F)	X
	967.15.76			0		±10% (K)	±5 % (J)	±200 ppm/°C (L)	±100 ppm/°C (S)	
				X					±200 ppm/°C (L)	

X = customer specific 0 = without

Metallux cannot picture the customer's operating and application conditions and the customer's existing environmental influences. We therefore recommend that you carry out your own investigations into the planned use of the products under the actual operating conditions. We continuously improve our products and also update our data sheets regularly. In this respect, there may be changes in the specification. These changes will apply to orders received by us from the time of the update, unless otherwise agreed. Our products comply with Directive 2011/65/EU (RoHS) including Directive 2015/863/EU and Regulation (EC) No. 1907/2006 (REACH).