

HIGH-VOLTAGE IMPULSE RESISTOR 967 HVI

This flat, ceramic-based high-voltage impulse resistor meets all requirements for low inductance and stable passive components.

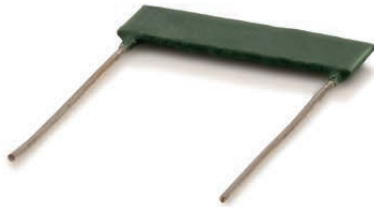
This product is available in a wide variety of configurations. You specify the desired power, dimensions, and resistance value, and we will design the appropriate resistor element based on your specifications.

Advantages

- Extremely high pulse resistance
- Good long-term stability
- Very low inductance
- Flat design

Application Examples

- Charge and discharge resistors (e.g. for capacitors)
- Protective resistor for rectifiers
- Damping resistor for X-ray tubes
- Cable measurement technology



Electrical Data	
Resistance Value	Freely selectable, see table
Tolerances	≥ ±10 %
Temperature Coefficient	±100 ppm/°C, ±200 ppm/°C Further values on request
Insulation Resistance	>10,000 MΩ (500 V, 25 °C, 75 % RH)
Dielectric Strength of the Insulation	>1,000 VDC (25 °C, 75 % RH)
Overload Capacity	1.5 x P _{nom} (W), 5 sec
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

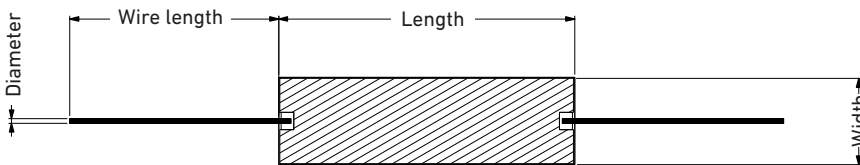
Environmental Data	
Operating Temperature	-50 °C up to +175 °C, max. 220 °C
Storage Temperature	0 °C up to +85 °C at 80 % RH max. for min. 12 months
Thermal Shock	MIL-Std-202, Method 107, Cond C, ΔR 0.4 % max.
Moisture Resistance	MIL-Std-202, Method 106, Cond C, ΔR 0.25 % max.

Produkt Overview										
Series and sizes	Power at 40° C	Operating Voltage DC in Air	Operating Voltage DC in Oil	Resistance Values		Single Pulse	Width	Length	Pitch for Radial Leads approx. length	Approx. Weight
	W	kV	kV	Min. Ω	Max. Ω	J	mm / inches	mm / inches	mm / inches	g
HVI 967.3.25	1	8	12	50	500k	10	3.8 / 0.15	25.4 / 1.0	22.9 / 0.9	0.60
HVI 967.5.13	1	5	7.5	50	500k	7	5.0 / 0.2	12.7 / 0.5	10.16 / 0.4	0.54
HVI 967.8.26	2	10	15	50	500k	15	8.0 / 0.31	25.4 / 1.0	22.8 / 0.9	0.93
HVI 967.15.51	4.5	30	45	50	500k	30	15.0 / 0.59	50.8 / 2.0	48.26 / 1.9	3.42

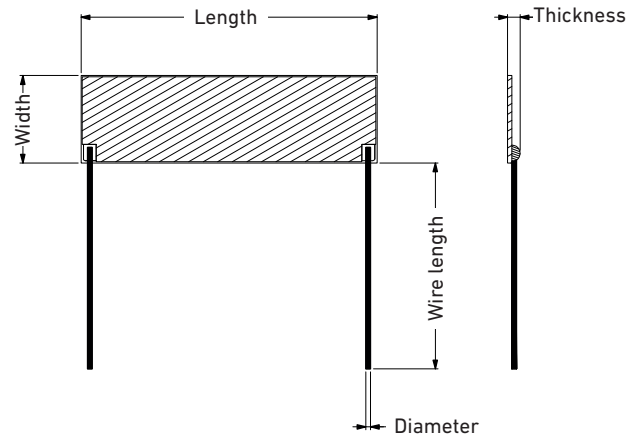
Mechanical Tolerances ± 0.2 mm

HIGH-VOLTAGE IMPULSE RESISTOR 967 HVI

Connection wire, axially mounted



Connection wire, radially mounted



Electrical connection

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

Other connections and lengths on request

Protective Coatings

	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	•	•	•	•		

*The color of the silicone cement may vary, but it does not affect the functionality of the resistor.

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
		left	right	1. layer	2. layer				
HVI	967.3.25	R radially	R radially	G	B	Please specify	±10 % (K)	±100 ppm/°C (S)	P Standard
	967.5.13	A axially	A axially	0	D			±200 ppm/°C (L)	0
	967.8.26	0	0		U				X
	967.15.51	X	X		0				
					X				

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).