

FLAT HIGH-VOLTAGE RESISTOR 967 HPR

This flat, ceramic-based high-voltage 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 accuracy
- Good long-term stability
- Low inductance
- Flat design

Application Examples

- High-voltage measurement and testing technology
- Measurement resistance in X-ray generators
- Radiation detectors
- Transducers



Electrical Data	
Resistance Value	Freely selectable, see table
Tolerances	±0.1 %, ±0.25 %, ±0.5 %, ±1 %, ±2 %, ±5 %, ±10 % untrimmed Further values on request
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

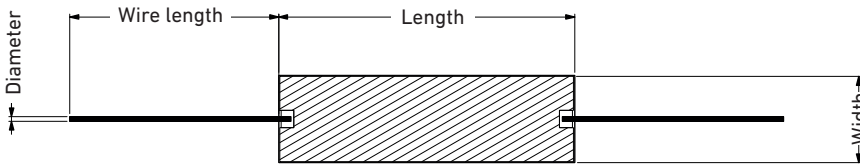
Environmental Data	
Operating Temperature	-50 °C up to +175 °C, max. 220 °C
Storage Temperature	0 °C up to +85 °C at 80 % RH max. for min. 12 months
Thermal Shock	MIL-Std-202, Method 107, Cond C, ΔR 0.4 % max.
Moisture Resistance	MIL-Std-202, Method 106, Cond C, ΔR 0.25 % max.

Produkt Overview										
Series and sizes	Power at 40° C	Operating Voltage DC in Air	Operating Voltage DC in Oil	Resistance Values		Voltage Coefficient	Width	Length	Pitch for Radial Leads approx. length	Approx. Weight
	W	kV	kV	Min. Ω	Max. Ω	VCR, ppm/V	mm / inches	mm / inches	mm / inches	g
HPR 967.3.25	0.7	8	12	2k	2G	< 1	3.8 / 0.15	25.4 / 1.0	22.9 / 0.9	0.60
HPR 967.3.38	1	10	15	4k	3G	< 1	3.8 / 0.15	38.0 / 1.5	35.7 / 1.4	0.52
HPR 967.5.13	0.7	5	7.5	2k	1G	< 2	5.0 / 0.2	12.7 / 0.5	10.16 / 0.4	0.54
HPR 967.8.26	1.4	10	15	5k	5G	< 1	8.0 / 0.31	25.4 / 1.0	22.9 / 0.9	0.93
HPR 967.13.38	2	15	22	10k	5G	< 0.4	13.0 / 0.51	38.5 / 1.52	35.5 / 1.4	2.20
HPR 967.15.30	2	15	22	10k	5G	< 0.3	15.0 / 0.59	30.0 / 1.18	22.1 / 0.87	2.00
HPR 967.15.51	3	30	45	10k	5G	< 0.3	15.0 / 0.59	50.8 / 2.0	48.26 / 1.9	3.42
HPR 967.25.90	8	45	70	20k	10G	< 0.15	25.4 / 1.0	88.9 / 3.45	85.6 / 3.37	10.00

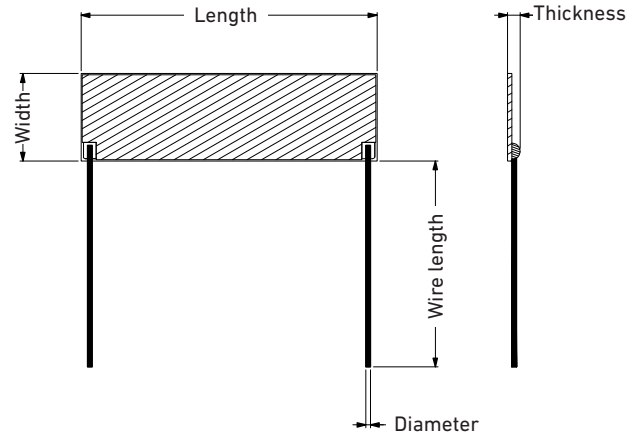
Mechanical Tolerances ± 0.2 mm

FLAT HIGH-VOLTAGE RESISTOR 967 HPR

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	•	•	•	•		

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				
HPR	967.3.25	R radially	R radially	G	B	Please specify	±0.1 % (B)	±100 ppm/°C (S)	P Standard
	967.3.38	A axially	A axially	0	D		±0.25 % (C)	±200 ppm/°C (L)	0
	967.5.13	0	0		U		±0.5 % (D)		X
	967.8.26	X	X		0		±1 % (F)		
	967.13.38				X		±2 % (G)		
	967.15.30						±5 % (J)		
	967.15.51						±10 % (K)		
	967.25.90								±20 % (untrimmed) (M)

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).