

HIGH VOLTAGE PULSE RESISTORS HVI 967 / 968 / 969



The generously-dimensioned design of the high voltage pulse resistors promotes energy distribution, providing an ideal solution for pulse applications. Whether for single pulses or pulse sequences – for all applications in high voltage engineering, high voltage protection systems and high voltage network components HVI pulse resistors are the right choice.



- Flat designs
- High pulse stability
- Very low inductance



Technical drawing and specifications:
refer to type series HVR 967, HVR 968 and HVR 969.

GENERAL TECHNICAL SPECIFICATIONS

Tolerance	from 5 %*
Temperature coefficient	100 ppm/°C*
Insulation resistance	>10,000 MΩ (500 V 25 °C 75 % relative humidity)
Dielectric strength of the insulation	>1,000 V (25 °C 75 % relative humidity) ΔR/R 0.25 % max.
Thermal shock	ΔR/R 0.25 % max.
Overload capacity	1.5 x P[nom], 5s (not 1.5 x V[max])
Moisture resistance	ΔR/R 0.25 % max.
Long-term stability	ΔR/R 0.25 % max.
Temperature range (operation / storage)	–55 °C to +175 °C (–55 °C to +100 °C)
Cover	Epoxy-based varnishes (glass, silicone-based encasing)
Connection type	Tinned copper wire Cu vz Ø 0,8 mm, axial or radial; on request pin 10 mm, brass caps with inner thread M4 / M8

Depending on ambient conditions, the characteristics of resistors can change.
We recommend a suitability test under operational conditions.

* Other values upon request.

TYPE SELECTION HVI 967				
TYPES	TOLERANCE			
	TCR (ppm/°C)	5 %	10 %	20 %
967.5.13 1 W 5 kV [air] 7.5 kV [oil]	100	50 R – 500 k	50 R – 500 k	50 R – 500 k
967.15.51 4.5 W 30 kV [air] 45 kV [oil]	100	50 R – 500 k	50 R – 500 k	50 R – 500 k
967.28.38 7 W 10 kV [air] 15 kV [oil]	100	50 R – 500 k	50 R – 500 k	50 R – 500 k
TYPE SELECTION HVID 967 – PRINTED ON BOTH SIDES				
967.6.9 0.5 W 3 kV [air] 5 kV [oil]	100	50 R – 500 K	50 R – 500 K	50 R – 500 K
	Dimension: 9.0 mm x 5.5 mm			
967.6.11 0.5 W 5 kV [air] 7.5 kV [oil]	100	50 R – 500 K	50 R – 500 K	50 R – 500 K
	Dimension: 11.0 mm x 5.5 mm			
967.6.13 0.8 W 5 kV [air] 7.5 kV [oil]	100	50 R – 500 K	50 R – 500 K	50 R – 500 K
	Dimension: 13.0 mm x 5.5 mm			
967.8.21 1.0 W 10 kV [air] 15 kV [oil]	100	50 R – 500 K	50 R – 500 K	50 R – 500 K
	Dimension: 21.0 mm x 8.0 mm			
967.11.21 1.5 W 10 kV 15 kV [oil]	100	50 R – 500 K	50 R – 500 K	50 R – 500 K
	Dimension: 21.0 mm x 10.5 mm			
967.11.26 2.0 W 10 kV 15 kV [oil]	100	50 R – 500 K	50 R – 500 K	50 R – 500 K
	Dimension: 24.0 mm x 10.5 mm			
Other resistance values and temperature coefficients upon request.				

TYPE SELECTION HVI 968				
TYPES	TOLERANCE			
	TCR (ppm/°C)	5 %	10 %	20 %
968.3 5 W 12 kV [air] 18 kV [oil]	100	50 R – 500 K	50 R – 500 K	50 R – 500 K
968.5 7.5 W 18 kV [air] 27 kV [oil]	100	80 R – 500 K	80 R – 500 K	80 R – 500 K
968.10 12 W 36 kV [air] 54 kV [oil]	100	100 R – 500 K	100 R – 500 K	100 R – 500 K
TYPE SELECTION HVI 969				
969.11 11 W 24 kV [air] 32 kV [oil]	25 50 100 200	50 R – 500 K	50 R – 500 K	50 R – 500 K
969.54 54 W 48 kV [air] 72 kV [oil]	25 50 100 200	50 R – 500 K	50 R – 500 K	50 R – 500 K
969.71 71 W 64 kV [air] 96 kV [oil]	25 50 100 200	50 R – 500 K	50 R – 500 K	50 R – 500 K
969.105 105 W 96 kV [air] 144 kV [oil]	25 50 100 200	50 R – 500 K	50 R – 500 K	50 R – 500 K
Other resistance values and temperature coefficients upon request, cover with glass: Tolerance ± 20%				

SAMPLE ORDER					
HVI 967.5.13 Type	A Connections	B Cover	150R Resistance value	10 % Tolerance	TC25 Temperature coefficient
	A = axial	G = glass	R = Ω	5.0 %	50 ppm/°C
	R = radial	B = operation in air	K = $K\Omega$	10.0 %	100 ppm/°C
		D = operation in oil	M = $M\Omega$	20.0 %	200 ppm/°C
		U = encasing			

HVI 968.5 Type	C Connections	B Cover	100M Resistance value	1 % Tolerance	TC25 Temperature coefficient
	A = axial	G = glass	R = Ω	5.0 %	50 ppm/°C
	C = caps	B = operation in air	K = $K\Omega$	10.0 %	100 ppm/°C
		D = operation in oil	M = $M\Omega$	20.0 %	200 ppm/°C
		U = encasing			

HVI 969.23 Type	B Cover	100M Resistance value	1 % Tolerance	TC25 Temperature coefficient
	G = glass	R = Ω	5.0 %	50 ppm/°C
	B = operation in air	K = $K\Omega$	10.0 %	100 ppm/°C
	D = operation in oil	M = $M\Omega$	20.0 %	200 ppm/°C
	U = encasing			