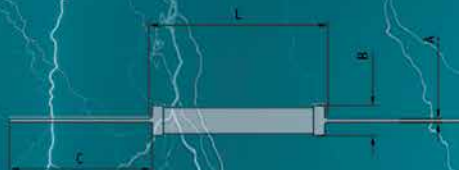
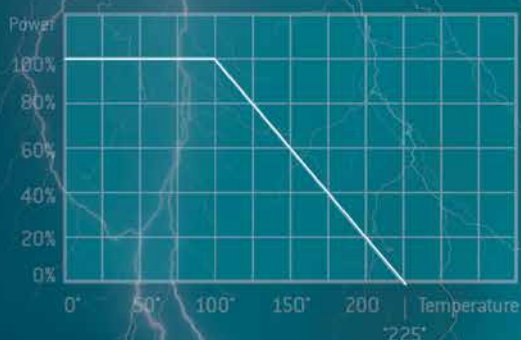


HIGH VOLTAGE RESISTORS

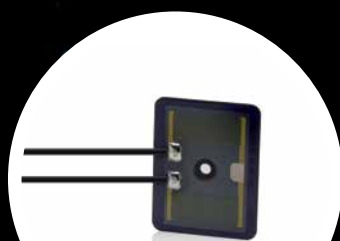
Product Range



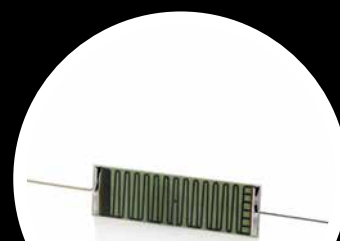
▶ HVR 969



▶ POC 400



▶ PLR/PLR-T0



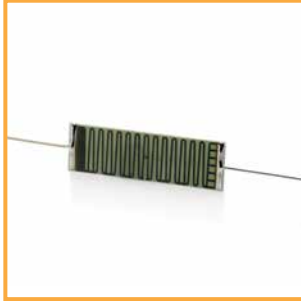
▶ HVR 967

METALLUX – HIGH VOLTAGE RESISTORS



HVR 967

HIGH VOLTAGE RESISTOR HVR 967



Types	Dimensions W x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air (in oil)	VCR typ. [ppm/V]
967.3.25	3.8 (0.15) x 25.4 (1.0)	2 k – 2 G	from 0.5	from 25	1.0	8.0 (12.0)	< 2
967.3.38	3.8 (0.15) x 38.0 (1.5)	4 k – 3 G	from 0.5	from 25	1.5	10.0 (15.0)	< 2
967.5.13	5.0 (0.2) x 12.7 (0.5)	2 k – 1 G	from 0.5	from 25	1.0	5.0 (7.5)	< 2
967.7.51	7.0 (0.3) x 51.9 (2.04)	5 k – 5 G	from 0.5	from 25	2.0	20.0 (30.0)	< 0.9
967.8.26	8.0 (0.31) x 25.4 (1.0)	5 k – 2 G	from 0.5	from 25	2.0	10.0 (15.0)	< 2
967.13.38	13.0 (0.51) x 38.5 (1.52)	10 k – 5 G	from 0.5	from 25	3.0	15.0 (30.0)	< 1
967.15.30	15.0 (0.59) x 30.0 (1.18)	10 k – 5 G	from 0.5	from 25	3.0	15.0 (30.0)	< 1
967.15.51	15.0 (0.59) x 50.8 (2.0)	10 k – 5 G	from 0.5	from 25	4.5	30.0 (45.0)	< 1
967.15.76	15.5 (0.61) x 76.2 (3.0)	20 k – 10 G	from 0.5	from 25	5.5	35.0 (52.0)	< 0.8
967.25.90	25.4 (1.0) x 88.9 (3.45)	20 k – 10 G	from 0.5	from 25	10.0	45.0 (70.0)	< 0.5

Electrical connection: tinned copper wire Cu vz \varnothing 0,8 mm, axial or radial; on request pin 10 mm

HVR 968

HIGH VOLTAGE RESISTOR HVR 968



Types	Dimensions \varnothing x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air (in oil)	VCR typ. [ppm/V]
968.2	\varnothing 8.0 (0.31) x 27.0 (1.06)	9 k – 10 G	from 0.5	from 25	3.8	6.0 (13.5)	< 1.5
968.3	\varnothing 8.0 (0.31) x 37.0 (1.46)	6 k – 15 G	from 0.5	from 25	5.0	12.0 (18.0)	< 0.8
968.4	\varnothing 8.0 (0.31) x 47.0 (1.85)	10 k – 15 G	from 0.5	from 25	6.0	14.0 (21.0)	< 0.7
968.5	\varnothing 8.0 (0.31) x 52.0 (2.05)	10 k – 20 G	from 0.5	from 25	7.5	18.0 (27.0)	< 0.6
968.7	\varnothing 8.0 (0.31) x 78.0 (3.07)	20 k – 30 G	from 0.5	from 25	10.0	24.0 (36.0)	< 0.3
968.10	\varnothing 8.0 (0.31) x 103.0 (4.06)	30 k – 30 G	from 0.5	from 25	12.0	36.0 (54.0)	< 0.24
968.12	\varnothing 8.0 (0.31) x 128.0 (5.04)	35 k – 30 G	from 0.5	from 25	15.0	42.0 (63.0)	< 0.20
968.15	\varnothing 8.0 (0.31) x 153.0 (6.02)	50 k – 30 G	from 0.5	from 25	17.0	54.0 (81.0)	< 0.16

Options: timesaving, secure assembly by brass end caps wired or with M4 thread

HVR 969

HIGH VOLTAGE RESISTOR HVR 969



Types	Dimensions \varnothing x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air (in oil)	VCR typ. [ppm/V]
969.11	\varnothing 13.5 (0.53) x 81.0 (3.19)	10k – 5G	from 0.5	from 25	11.0	24.0 (32.0)	< 0.15
969.23	\varnothing 13.5 (0.53) x 156.0 (6.14)	10k – 10G	from 0.5	from 25	23.0	48.0 (72.0)	< 0.15
969.54	\varnothing 30.0 (1.18) x 158.0 (6.22)	15K – 10G	from 0.5	from 25	54.0	48.0 (72.0)	< 0.15
969.71	\varnothing 30.0 (1.18) x 208.0 (8.19)	25k – 15G	from 0.5	from 25	71.0	64.0 (96.0)	< 0.15
969.105	\varnothing 30.0 (1.18) x 308.0 (12.13)	35k – 25G	from 0.5	from 25	105.0	96.0 (148.0)	< 0.15

Options: timesaving, secure assembly by brass end caps with M4 or M8 thread

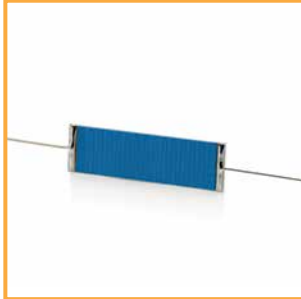
All resistors are covered to protect them against any environmental influences. Nature of the covering depends on the prevailing operational conditions. Resistors can change their characteristics depending on respective environmental influences. We recommend a qualification test under actual operational conditions. Supporting information will gladly be provided on request.

METALLUX – HIGH VOLTAGE RESISTORS



HPR 967

HIGH VOLTAGE PRECISION RESISTOR HPR 967

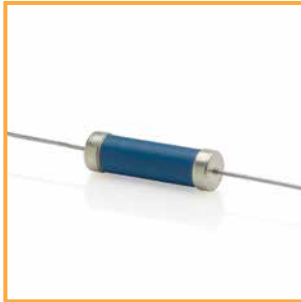


Types	Dimensions W x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air (in oil)	VCR typ. [ppm/V]
967.3.25	3.8 (0.15) x 25.4 (1.0)	2 k – 2 G	from 0.1	from 15	0.7	8.0 (12.0)	< 1
967.3.38	3.8 (0.15) x 38.0 (1.5)	4 k – 3 G	from 0.1	from 15	1.0	10.0 (15.0)	< 1
967.5.13	5.0 (0.2) x 12.7 (0.5)	2 k – 1 G	from 0.1	from 15	0.7	5.0 (7.5)	< 2
967.8.26	8.0 (0.31) x 25.4 (1.0)	5 k – 2 G	from 0.1	from 15	1.4	10.0 (15.0)	< 0.3
967.13.38	13.0 (0.51) x 38.5 (1.52)	10 k – 5 G	from 0.1	from 15	2.0	15.0 (22.0)	< 1
967.15.30	15.0 (0.59) x 30.0 (1.18)	10 k – 5 G	from 0.1	from 15	2.0	15.0 (22.0)	< 0.4
967.15.51	15.0 (0.59) x 50.8 (2.0)	10 k – 5 G	from 0.1	from 15	3.0	30.0 (45.0)	< 0.3
967.25.90	25.4 (1.0) x 88.9 (3.45)	20 k – 10 G	from 0.1	from 15	8.0	45.0 (70.0)	< 0.15

Electrical connection: tinned copper wire Cu vz Ø 0,8 mm, axial or radial; on request pin 10 mm

HPR 968

HIGH VOLTAGE PRECISION RESISTOR HPR 968



Types	Dimensions Ø x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air (in oil)	VCR typ. [ppm/V]
968.2	Ø 8.0 (0.31) x 27.0 (1.06)	9 k – 10 G	from 0.1	from 15	2.6	9.0 (15.0)	< 0.75
968.3	Ø 8.0 (0.31) x 37.0 (1.46)	6 k – 15 G	from 0.1	from 15	3.0	12.0 (22.0)	< 0.4
968.5	Ø 8.0 (0.31) x 52.0 (2.05)	10 k – 20 G	from 0.1	from 15	5.0	18.0 (30.0)	< 0.3
968.7	Ø 8.0 (0.31) x 78.0 (3.07)	20 k – 30 G	from 0.1	from 15	6.5	24.0 (48.0)	< 0.15
968.10	Ø 8.0 (0.31) x 103.0 (4.06)	30 k – 30 G	from 0.1	from 15	8.0	36.0 (54.0)	< 0.12
968.12	Ø 8.0 (0.31) x 128.0 (5.04)	35 k – 30 G	from 0.1	from 15	10.0	42.0 (63.0)	< 0.1
968.15	Ø 8.0 (0.31) x 153.0 (6.02)	50 k – 30 G	from 0.1	from 15	12.0	54.0 (81.0)	< 0.08

Options: timesaving, secure assembly by brass end caps wired or with M4 thread

HPR 969

HIGH VOLTAGE PRECISION RESISTOR HPR 969



Types	Dimensions Ø x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air (in oil)	VCR typ. [ppm/V]
969.11	Ø 13.5 (0.53) x 81.0 (3.19)	10 k – 5 G	from 0.1	from 15	7.0	24.0 (32.0)	< 0.1
969.23	Ø 13.5 (0.53) x 156.0 (6.14)	10 k – 10 G	from 0.1	from 15	15.0	48.0 (72.0)	< 0.1
969.54	Ø 30.0 (1.18) x 158.0 (6.22)	15 k – 10 G	from 0.1	from 15	36.0	48.0 (72.0)	< 0.1
969.71	Ø 30.0 (1.18) x 208.0 (8.19)	25 k – 15 G	from 0.1	from 15	54.0	64.0 (96.0)	< 0.1
969.105	Ø 30.0 (1.18) x 308.0 (12.13)	35 k – 25 G	from 0.1	from 15	75.0	96.0 (148.0)	< 0.1

Options: timesaving, secure assembly by brass end caps with M4 or M8 thread

HVI 968

HIGH VOLTAGE IMPULSE RESISTOR HVI 968



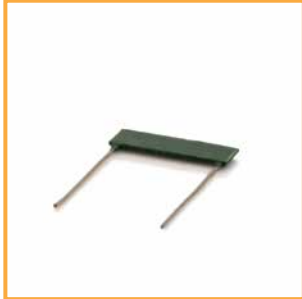
Types	Dimensions Ø x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air (in oil)	Pulse energy [J]
968.3	Ø 8.0 (0.31) x 37.0 (1.46)	50 R – 500 k	from 10	from 100	5.0	12,0 (22,0)	19
968.5	Ø 8.0 (0.31) x 52.0 (2.05)	50 R – 500 k	from 10	from 100	7.5	18,0 (30,0)	25
968.10	Ø 8.0 (0.31) x 103.0 (4.06)	50 R – 500 k	from 10	from 100	12.0	36,0 (54,0)	68

Options: timesaving, secure assembly by brass end caps wired or with M4 thread

METALLUX – HIGH VOLTAGE RESISTORS



HVI 967/HVID 967 HIGH VOLTAGE IMPULSE RESISTOR HVI 967/HVID 967



Types HVI	Dimensions W x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air [in oil]	Pulse energy [J]
9675.13	5.0 (0.2) x 12.7 (0.5)	50 R – 500 k	from 10	from 100	1.0	5.0 (7.5)	2
96715.51	15.0 (0.59) x 50.8 (2.0)	50 R – 500 k	from 10	from 100	4.5	30.0 (45.0)	36
96728.38	28.0 (1.1) x 38.0 (1.5)	50 R – 500 k	from 10	from 100	7.0	10.0 (15.0)	36
HVID [screen printed on both sides]							
9676.9	5.5 (0.22) x 9.0 (0.35)	50 R – 500 k	from 10	from 100	0.5	3,0 (5,0)	6
9676.11	5.5 (0.22) x 11.0 (0.43)	50 R – 500 k	from 10	from 100	0.5	3,5 (6,0)	8
9676.13	5.5 (0.22) x 13.0 (0.51)	50 R – 500 k	from 10	from 100	0.8	5,0 (7,5)	10
9678.21	8.0 (0.31) x 21.0 (0.83)	50 R – 500 k	from 10	from 100	1.0	7,0 (10)	24
96711.21	11.0 (0.43) x 21.0 (0.83)	50 R – 500 k	from 10	from 100	1.5	8,0 (12,0)	30
96711.26	11.0 (0.43) x 26.0 (1.02)	50 R – 500 k	from 10	from 100	2.0	10,0 (15,0)	40

Electrical connection: tinned copper wire Cu vz \varnothing 0,8 mm, axial or radial; on request pin 10 mm

HVI 969 HIGH VOLTAGE IMPULSE RESISTOR HVI 969



Types	Dimensions \varnothing x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air [in oil]	Pulse energy [J]
969.11	\varnothing 13.5 (0.53) x 81.0 (3.19)	50 R – 500 k	from 10	from 100	11.0	24,0 (32,0)	108
969.54	\varnothing 30.0 (1.18) x 158.0 (6.22)	50 R – 500 k	from 10	from 100	54.0	48,0 (72,0)	510
969.71	\varnothing 30.0 (1.18) x 208.0 (8.19)	50 R – 500 k	from 10	from 100	71.0	64,0 (96,0)	806
969.105	\varnothing 30.0 (1.18) x 308.0 (12.13)	50 R – 500 k	from 10	from 100	105.0	96,0 (148,0)	1238

Options: timesaving, secure assembly by brass end caps with M4 or M8 thread

HVD HIGH VOLTAGE DIVIDER HVD



Types	Dimensions W x L / \varnothing x L [mm (inches)]	Resistance values Ratio [Ω]	Tolerance Ratio [%]	TC Ratio [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air [in oil]	VCR typ. [ppm/V]
9678.26 [alt 1000.2]	8.0 (0.31) x 26.0 (1.02)	1.5 M – 150 M	bis 0.1	bis 10	0.5	8.0 (12.0)	< 1
96713.38 [alt 1000.3]	13.0 (0.51) x 38.5 (1.52)	5 M – 500 M	bis 0.1	bis 10	1.2	15.0 (22.0)	< 0.4
96715.30	15.0 (0.59) x 30.0 (1.18)	5 M – 500 M	bis 0.1	bis 10	1.0	15.0 (22.0)	< 0.4
96715.51 [alt 1000.4]	15.0 (0.59) x 50.8 (2.0)	10 M – 1.5 G	bis 0.1	bis 10	1.8	24.0 (36.0)	< 0.3
96715.77 [alt 1000.5]	15.5 (0.61) x 77.5 (3.05)	15 M – 2 G	bis 0.1	bis 10	2.4	32.0 (49.0)	< 0.2
968.5	\varnothing 8.0 (0.31) x 52.0 (2.05)	15 M – 2 G	bis 0.1	bis 10	3.0	15.0 (22.0)	< 0.2
968.7	\varnothing 8.0 (0.31) x 78.0 (3.07)	15 M – 2 G	bis 0.1	bis 10	6.0	20.0 (30.0)	< 0.15
969.23 [alt 2000.23]	\varnothing 13.5 (0.53) x 156.0 (6.14)	20 M – 3 G	bis 0.1	bis 10	10.0	45.0 (60.0)	< 0.1
969.105 [alt 2000.105]	\varnothing 30.0 (1.18) x 308.0 (12.13)	20 M – 3 G	bis 0.1	bis 10	50.0	90.0 (120.0)	< 0.1

Electrical connection: tinned copper wire Cu vz \varnothing 0,8 mm, axial or radial; on request pin 10 mm for the serie HVD 967. Timesaving, secure assembly by brass end caps (wired or M4 thread) for the serie HVD 968 or by end caps (M8 thread) for the serie HVD 969.

METALLUX – HIGH VOLTAGE RESISTORS



HVS 967

HIGH VOLTAGE SMD RESISTOR HVS 967



Types	Dimensions W x L [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air [in oil]	
9673.25	3.8 [0.15] x 25.4 [1.0]	2 K – 2 G	from 0.5	from 25	1.0	8.0 [12.0]	
9675.13	5.0 [0.2] x 12.7 [0.5]	4 K – 3 G	from 0.5	from 25	1.0	5.0 [7.5]	
9676.12	6.35 [0.25] x 12.7 [0.5]	4 K – 3 G	from 0.5	from 25	1.0	5.0 [7.5]	
9676.25	6.35 [0.25] x 25.4 [1.0]	2 K – 1 G	from 0.5	from 25	1.5	10.0 [15.0]	
9678.26	8.0 [0.31] x 25.4 [1.0]	2 K – 1 G	from 0.5	from 25	2.0	10.0 [15.0]	

POC 400

HIGH VOLTAGE POTENTIOMETER POC 400



Types	Dimensions L x W x H [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC abs./ratio [ppm/K]	Linearity [%]	Operating voltage KV _{DC} in air	Degree of protection
400	50.0 [1.97] x 35.0 [1.38] x 22.5 [0.89]	5 M, 10 M, 15 M	± 10	50	± 4	2.5	IP 60

PLR-T0/PLR

POWER RESISTOR, THICK-FILM PLR-T0/PLR



Types	Dimensions L x W [mm (inches)]	Resistance values [Ω]	Tolerance [%]	Operating voltage [V]	Nominal power at 40°C [W]	Max. pulse energy at rated power [J]	Degree of protection
T0-126	11.3 [0.44] x 9.0 [0.35]	1 R – 10 k	from 10 %	300	15.0	*	IP 00
T0-220	16.5 [0.65] x 11.0 [0.43]	1 R – 10 k	from 10 %	300	30.0	*	IP 00
T0-247	21.0 [0.83] x 16.0 [0.36]	1 R – 10 k	from 10 %	300	45.0	*	IP 00
100.61.41	61.0 [2.4] x 41.0 [1.61]	5 R – 680 R	from 10 %	1.000	100.0	*	IP 00
300.70.61	70.0 [2.76] x 61.0 [2.4]	5 R – 680 R	from 10 %	1.000	300.0	*	IP 00
Optional Dimensions							
100.55.43	55.0 [2.17] x 43.0 [1.69]	5 R – 680 R	from 10 %	1.000	100.0	*	IP 00
200.145.20	145.0 [5.71] x 20.0 [0.79]	5 R – 680 R	from 10 %	1.000	180.0	*	IP 00
900.188.75	188.0 [7.4] x 75.0 [2.95]	5 R – 680 R	from 10 %	1.000	900.0	*	IP 00

Optionen: cable AWG 20, UL 1015; contact plug; solder eyelet

* Operating voltage and max. pulse voltage are depending on installation method and respective application.

PCR

HIGH VOLTAGE IMPULSE RESISTOR PCR



Types	Dimensions Ø x L _{max} [mm (inches)]	Resistance values [Ω]	Tolerance [%]	TC [ppm/K]	Nominal power at 40°C [W]	Operating voltage KV _{DC} in air	Pulse energy [KJ]
8	Ø 8 [0.31] x 120 [4.72]	0 R3 – 1 R	from 20	from 300	1 – 5	10	3
13	Ø 13 [0.51] x 220 [8.66]	0 R3 – 1 R5	from 20	from 300	5 – 50	35	5
30	Ø 30 [1.18] x 230 [9.06]	0 R3 – 0 R5	from 20	from 300	50 – 200	60	35

Brass end caps, wired for diameter 8mm, thread M4 for diameter 8 mm and 13 mm, thread M8 for diameter 30 mm

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Specifications are subject to change without notice.
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System Certification
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