

# Product overview

## High voltage resistors





metallux.de


technology matters


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Type	Metallux type	dimensions LxB mm/ØxL mm	resistance- value Ohm	Tolerance %	TC ppm/° C	nominal load W at 40°C	supply voltage KVDC air (oil)	VCR typ. ppm/V
HVR 967 High voltage resistor								
	967.3.25 967.3.38 967.5.13 967.7.51 967.8.26 967.13.38 967.15.51 967.25.90	25,4 x 3,8 38,0 x 3,8 12,7 x 5,0 51,9 x 7,0 26,0 x 8,0 38,5 x 13,0 50,8 x 15,0 89,0 x 25,4	100k – 4G 100k – 6G 100k – 10G 500k – 10G 500k – 10G 500k – 30G 1M – 50G 10M – 100G	1 1 0,25 – 1 0,25 – 0,5 0,25 – 0,5 0,25 – 1 0,25 – 1 0,25 – 1	from 50 from 50 from 50 from 50 from 50 from 50 from 50 from 50	1,0 1,5 1,0 2,0 2,0 3,0 4,5 10,0	8,0 (12) 10 (15) 5 (7,5) 20 (30) 10 (15) 15 (30) 30 (45) 45 (70)	< 2 < 2 < 2 < 0,9 < 2 < 1 < 1 < 0,5


HVR 968 High voltage resistor								
	968.2 968.3 968.5 968.7 968.10 968.12 968.15	Ø 8,0 x 27,0 Ø 8,0 x 37,0 Ø 8,0 x 52,0 Ø 8,0 x 78,0 Ø 8,0 x 103,0 Ø 8,0 x 128,0 Ø 8,0 x 153,0	1M – 50G 1M – 50G 1M – 50G 1M – 50G 1M – 50G 1M – 50G 1M – 50G	0,5 – 10 0,5 – 10 0,5 – 10 0,5 – 10 0,5 – 10 0,5 – 10 0,5 – 10	from 50 from 50 from 50 from 50 from 50 from 50 from 50	3,8 5,0 7,5 10,0 12,5 15,0 17,0	12 (15) 18 (22) 24 (30) 36 (48) 60 (72) 75 (90) 90 (110)	< 1,5 < 0,80 < 0,60 < 0,30 < 0,24 < 0,20 < 0,16


HVR 969 High voltage resistor								
	969.11 969.23 969.54 969.71 969.105	Ø 13,5 x 81,0 Ø 13,5 x 156,0 Ø 30 x 158,0 Ø 30 x 208,0 Ø 30 x 308,0	2M – 10G 2M – 10G 2M – 10G 2M – 10G 2M – 10G	0,5 – 10 0,5 – 11 0,5 – 12 0,5 – 13 0,5 – 14	from 50 from 50 from 50 from 50 from 50	11,0 23,0 54,0 71,0 105,0	24 (32) 48 (72) 48 (72) 64 (96) 96 (148)	< 0,15 < 0,15 < 0,15 < 0,15 < 0,15
<b>special features:</b> Tolerance range 1% to 20%; TC from 50 ppm/° C, low inductiv, short term availability								


HPR 967 High precision resistor								
	967.3.25 967.3.38 967.5.13 967.7.51 967.8.26 967.13.38 967.15.51 967.25.90	25,4 x 3,8 38,0 x 3,8 12,7 x 5,0 51,9 x 7,0 26,0 x 8,0 38,5 x 13,0 50,8 x 15,0 89,0 x 25,4	200k – 4G 200k – 6G 1M – 10G 1M – 10G 1M – 10G 1M – 30G 1M – 50G 1M – 100G	0,25 0,25 0,25 0,1 – 1 0,1 – 1 0,1 – 1 0,1 – 1 0,1 – 5	from 10 from 10 from 10 from 10 from 10 from 10 from 10 from 10	0,7 1,0 0,7 1,4 1,4 2,0 3,0 8,0	8 (12) 10 (15) 5 (7,5) 20 (30) 10 (15) 15 (22) 30 (45) 45 (70)	< 1 < 1 < 2 < 0,3 < 1 < 0,4 < 0,3 < 0,15


HPR 968 High precision resistor								
	968.2 968.3 968.5 968.7 968.10 968.12 968.15	Ø 8,0 x 27,0 Ø 8,0 x 37,0 Ø 8,0 x 52,0 Ø 8,0 x 78,0 Ø 8,0 x 103,0 Ø 8,0 x 128,0 Ø 8,0 x 153,0	1M – 50G 1M – 50G 1M – 50G 1M – 50G 1M – 50G 1M – 50G 1M – 50G	0,1 – 1 0,1 – 1 0,1 – 1 0,1 – 1 0,1 – 1 0,1 – 1 0,1 – 1	from 10 from 10 from 10 from 10 from 10 from 10 from 10	2,6 3,0 5,0 6,5 8,0 10,0 12,0	12 (15) 18 (22) 24 (30) 36 (48) 60 (72) 75 (90) 90 (110)	< 0,75 < 0,40 < 0,30 < 0,15 < 0,12 < 0,10 < 0,08

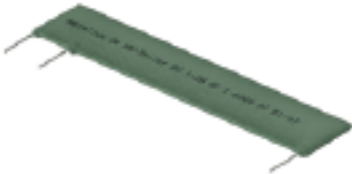
Type	Metallux type	dimensions LxB mm/ØxL mm	resistance value Ohm	tolerance %	TC ppm/° C	nominal load W bei 40°C	supply voltage KVDC air (oil)	VCR typ. ppm/V
HPR 969 High precision resistor								
	969.11	Ø 13,5 x 81,0	2M – 10G	0,1 – 0,5	from 10	7	24 (32)	< 0,1
	969.23	Ø 13,5 x 156,0	2M – 10G	0,1 – 0,5	from 10	15	48 (72)	< 0,1
	969.54	Ø 30 x 158,0	2M – 10G	0,1 – 0,5	from 10	36	48 (72)	< 0,1
	969.71	Ø 30 x 208,0	2M – 10G	0,1 – 0,5	from 10	54	64 (96)	< 0,1
	969.105	Ø 30 x 308,0	2M – 10G	0,1 – 0,5	from 10	75	96 (148)	< 0,1
<b>Special features:</b> high longterm stability through special design, high precision and low supply co-efficient								


HVI 967 High voltage impulse resistor								
	967.5.13	12,7 x 5,0	to 500kOhm	1 – 20	100	7J at 100msec	5 (7,5)	
	967.8.26	26,0 x 8,0	to 500kOhm	1 – 20	100	15J at 100msec	10 (15)	
	967.15.51	50,8 x 15,0	to 500kOhm	1 – 20	100	30J at 100msec	30 (45)	


HVI 968 High voltage impulse resistor								
	968.3	Ø 8,0 x 37,0	to 500kOhm	1 – 20	100	35	12 (15)	
	968.5	Ø 8,0 x 52,0	to 500kOhm	1 – 20	100	50	24 (30)	
	968.10	Ø 8,0 x 103,0	to 500kOhm	1 – 20	100	100	60 (72)	

HVI 969 High voltage impulse resistor								
	969.54	Ø 30,5 x 158,0	to 500kOhm	1 – 20	100	1000	48 (72)	
	969.71	Ø 30,5 x 208,0	to 500kOhm	1 – 20	100	1800	64 (96)	
	969.105	Ø 30,5 x 308,0	to 500kOhm	1 – 20	100	3600 energy 100msec 0,25hz	96 (148)	

HVI 03 High voltage surge resistor								
	03.1	9,0 x 5,5	4k – 100k	2 – 20	100	0,5	1,2/50 to VDE750 5kV	
	03.2	11,0 x 5,5	3,5k – 100k	2 – 20	100	0,5		
	03.3	13,0 x 5,5	3,5k – 100k	2 – 20	100	0,8		
	03.4	21,0 x 8,0	700R – 100k	2 – 20	100	1,0		
	03.5	21,0 x 10,5	700R – 100k	2 – 20	100	1,5		
	03.6	26,0 x 10,5	700R – 100k	2 – 20	100	2,0		
<b>Special features:</b> high impulse load, operating in air, potting compound or in oil Ohm-values dependant of tolerance und TC								

Type	Metallux type	dimensions LxB mm/ØxL mm	resistance values Ohm	tolerance ratio %	TC ratio ppm/° C	nominal load W at 40°C	supply voltage KVDC air (oil)	VCR typ. ppm/V
HVD 100 High voltage divider								
	1000.2 1000.3 1000.4 1000.5	26,0 x 8,0 38,5 x 13,0 51,5 x 15,5 77,5 x 15,5	1,5M – 150M 5,0M – 500M 10,0M – 1,5G 15,0M – 2G	to 0,1 to 0,1 to 0,1 to 0,1	10 – 50 10 – 50 10 – 50 10 – 50	0,5 1,2 1,8 2,4	8 (12) 15 (22) 24 (36) 32 (49)	< 1 < 0,4 < 0,3 < 0,2

HVD 2000 High voltage divider								
	2000.23 2000.105	Ø 13,5 x 156 Ø 30,5 x 308	10M – 10G 20M – 20G	to 0,1 to 0,1	10 – 50 10 – 50	10,0 50,0	60 (90) 90 (120)	< 0,1 < 0,1
<b>Special features:</b> high longterm stability, high accuracy of measurement								

Network	Metallux type	dimensions LxB mm/ØxL mm	resistance values Ohm	tolerance ratio %	TC ratio ppm/° C	nominal load W at 40°C	supply voltage KVDC air (oil)	VCR typ. ppm/V
Resistor network (high voltage)								
	3000	26,0 x 8,0 38,5 x 13,0 50,8 x 7,0 50,8 x 15,0	100k – 1G 100k – 1G 100k – 1G 100k – 1G	to 0,1 to 0,1 to 0,1 to 0,1	10 – 50 10 – 50 10 – 50 10 – 50	1,0 1,4 2,0 3,0	10 20 15 30	< 1 < 0,4 < 0,3 < 0,2

All resistors available with specific cover for operation in air, compound or oil.

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