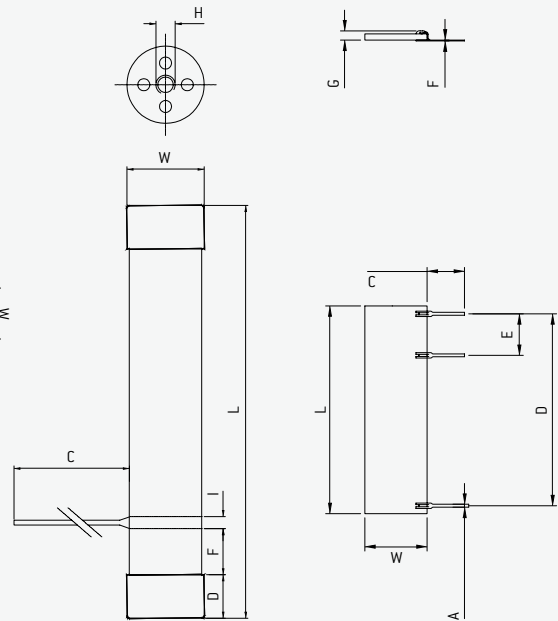
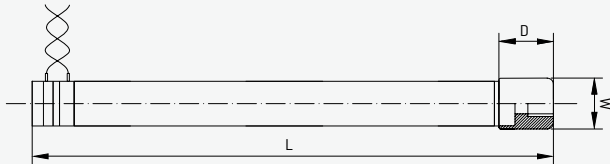
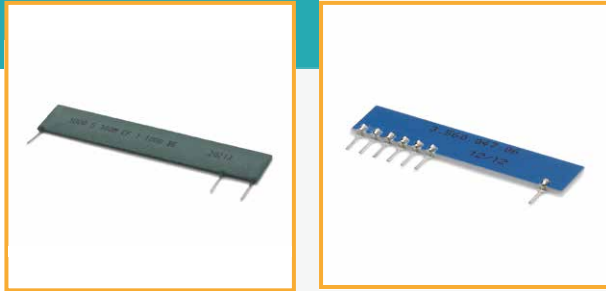


HIGH VOLTAGE DIVIDERS HVD AND RESISTOR NETWORKS NW



High voltage dividers and networks are precision resistors that are ideally suited for precise measuring and dividing of voltages thanks to a multitude of combination possibilities. Metallux high voltage dividers are available as a representative selection of various types. **Networks** are based on special application-oriented requirements. Please contact us – we will be glad to provide consultation.



- Very good ratio stability
- Low tolerances
- Minimal drift

GENERAL TECHNICAL SPECIFICATIONS

Tolerance, absolute	From 0.5 %*
Tolerance, ratio	From 0.1 %*
Temperature coefficient, ratio	From 25 ppm/°C*
Voltage coefficient, ratio	From 15 ppm/V*
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.
Moisture resistance	ΔR/R 0.25 % max.
Long-term stability	ΔR/R 0.25 % max.
Temperature range (operation / storage)	-55° C – +175° C (-55° C – +100° C)
Cover	Epoxy-based varnishes (glass, silicone-based encasing)
Connection type	Tinned copper wire Cu vz Ø 0.8 mm, axial or radial; Brass caps with inner thread M4 or 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								
TYPES	TOLERANCE RATIO / ABS. *							
	TCR ratio/abs. (ppm/° C)*	Division ratio	0.1 % / from 0.5 %	0.25 % / from 1 %	0.5 % / from 1 %	1 % / from 2 %	2 % / from 5 %	5 % / from 10 %
HVD 967.8.26 <i>(formerly: 1000.2)</i> 0.5 W 8/12 kV (air/oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:500 – 1:1,000 1:500 – 1:2,000 1:500 – 1:2,000 1:500 – 1:2,000	1.5 M – 100 K 1.5 M – 150 K 1.5 M – 150 K 1.5 M – 150 K	1.5 M – 100 K 1.5 M – 150 K 1.5 M – 150 K 1.5 M – 150 K	1.5 M – 100 K 1.5 M – 150 K 1.5 M – 150 K 1.5 M – 150 K	1.5 M – 100 K 1.5 M – 150 K 1.5 M – 150 K 1.5 M – 150 K	1.5 M – 100 K 1.5 M – 150 K 1.5 M – 150 K 1.5 M – 150 K	1.5 M – 100 K 1.5 M – 150 K 1.5 M – 150 K 1.5 M – 150 K
967.13.38 <i>(formerly: 1000.3)</i> 1.2 W 15/22 kV (air/oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:500 – 1:5,000 1:500 – 1:10,000 1:500 – 1:10,000 1:500 – 1:10,000	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M
967.15.30 1 W 15 kV (air) 22 kV (oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:500 – 1:5,000 1:500 – 1:10,000 1:500 – 1:10,000 1:500 – 1:10,000	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M	5 M – 300 M 5 M – 500 M 5 M – 500 M 5 M – 500 M
967.15.51 <i>(formerly: 1000.4)</i> 1.8 W 24/46 kV (air/oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:500 – 1:5,000 1:500 – 1:10,000 1:500 – 1:10,000 1:500 – 1:10,000	10 M – 500 M 10 M – 1 G 10 M – 1.5 G 10 M – 1.5 G	10 M – 500 M 10 M – 1 G 10 M – 1.5 G 10 M – 1.5 G	10 M – 500 M 10 M – 1 G 10 M – 1.5 G 10 M – 1.5 G	10 M – 500 M 10 M – 1 G 10 M – 1.5 G 10 M – 1.5 G	10 M – 500 M 10 M – 1 G 10 M – 1.5 G 10 M – 1.5 G	10 M – 500 M 10 M – 1 G 10 M – 1.5 G 10 M – 1.5 G
967.15.77 <i>(formerly: 1000.5)</i> 3.2 W 32/49 kV (air/oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:500 – 1:5,000 1:500 – 1:10,000 1:500 – 1:10,000 1:500 – 1:10,000	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G
968.5 3 W 15 kV (air) 22 kV (oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:500 – 1:5,000 1:100 – 1:10,000 1:100 – 1:10,000 1:100 – 1:10,000	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G
968.7 6 W 20 kV (air) 30 kV (oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:500 – 1:5,000 1:100 – 1:10,000 1:100 – 1:10,000 1:100 – 1:10,000	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G	15 M – 1 G 15 M – 1 G 15 M – 2 G 15 M – 2 G
969.23 <i>(formerly: 2000.23)</i> 10 W 45/60 kV (air/oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:100 – 1:10,000 1:100 – 1:20,000 1:100 – 1:20,000 1:100 – 1:20,000	20 M – 500 M 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 500 M 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 500 M 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 500 M 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 500 M 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 500 M 20 M – 2 G 20 M – 3 G 20 M – 3 G
969.105 <i>(formerly: 2000.105)</i> 50 W 90/120 kV (air/oil)	15 / 25 25 / 50 50 / 100 100 / 200	1:100 – 1:10,000 1:100 – 1:20,000 1:100 – 1:20,000 1:100 – 1:20,000	20 M – 1 G 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 1 G 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 1 G 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 1 G 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 1 G 20 M – 2 G 20 M – 3 G 20 M – 3 G	20 M – 1 G 20 M – 2 G 20 M – 3 G 20 M – 3 G

* Other values upon request.

DIMENSIONS									
TYPES	A	W = width	L = length	C	D	E	F	G	Unit
967.8.26	0.6 (0.02)	8.0 (0.31)	25.4 (1.0)	9.1 (0.36)	22.9 (0.9)	5.08 (0.2)	0.3 (0.01)	2.5 (0.1)	mm (inches)
967.13.38	0.6 (0.02)	13.0 (0.51)	38.5 (1.52)	9.1 (0.36)	35.6 (1.4)	7.6 (0.3)	0.3 (0.01)	2.5 (0.1)	mm (inches)
967.15.30	0.8 (0.02)	15.0 (0.59)	30.0 (1.18)	36.0 (1.42)	22.86 (0.9)	5.08 (0.2)		2.5 (0.1)	mm (inches)
967.15.51	0.6 (0.02)	15.0 (0.59)	50.8 (2.0)	9.1 (0.36)	48.3 (1.9)	10.16 (0.4)	0.3 (0.01)	2.5 (0.1)	mm (inches)
967.15.77	0.6 (0.02)	15.5 (0.61)	77.5 (3.05)	9.1 (0.36)	73.4 (2.89)	10.2 (0.4)	0.3 (0.01)	2.5 (0.1)	mm (inches)
TYPES		L = length	B = Ø	C	D	E	H	I	Unit
968.5		52.0 (2.05)	8.0 (0.31)		8.5 (0.35)		M4		mm (inches)
968.7		78.0 (3.07)	8.0 (0.31)		8.5 (0.35)		M4		mm (inches)
969.23		156 (6.14)	13 (0.51)		10 (0.39)	6.5 (0.26)	M6		mm (inches)
969.105		308 (12.13)	30 (1.18)		10 (0.39)	21 (0.83)	M8		mm (inches)

SAMPLE ORDERS					
Type	D	33 M	1:5,000	0.25 % / 0.5 %	TC50 / TC100
HVD 967.8.26	D	33 M	1:5,000	0.25 % / 0.5 %	TC50 / TC100
HVD 967.7	B	100 M	1:1,000	1.0 % / 2.0 %	TC25 / 15
HVD 969.23	U	1 G	1:10,000	5.0 % / 10.0 %	TC15 / TC25
Type	Cover	Resistance value	Division ratio	Tol. abs. / Tol. ratio.	TCabs. / TCratio.
	U = encasing	R = Ω		0.1 % / 0.5 %	15 ppm/° C / 25 ppm/° C
	B = operation in air	K = KΩ		0.25 % / 1.0 %	25 ppm/° C / 50 ppm/° C
	D = operation in oil	M = MΩ		0.5 % / 1.0 %	50 ppm/° C / 100 ppm/° C
	G = glass	G = GΩ		1.0 % / 2.0 %	100 ppm/° C / 200 ppm/° C
				2.0 % / 5.0 %	
				5.0 % / 10.0 %	
				10.0 % / 20.0 %	