

HIGH VOLTAGE PRECISION RESISTORS HPR 969



This series of high voltage precision resistors was developed to simultaneously handle high voltages while providing excellent stability. The reliability and precision in recording measurement values are just two of the outstanding features of this type series. At the same time, the resistors also offer high load capacity, making them particularly well-suited for applications in energy transmission, electrostatics and as protective resistors in electric drives.

- High load capacity
- Good stability
- Very low inductance



SAMPLE ORDERS				
HPR 969.54 Type	B Cover	100M Resistance value	0.1 % Tolerance	TC25 Temperature coefficient
	G = glass	R = Ω	0.1 %	15 ppm/°C
	B = operation in air	K = K Ω	0.25 %	25 ppm/°C
	D = operation in oil	M = M Ω	0.5 %	50 ppm/°C
	U = encasing	G = G Ω	1.0 %	100 ppm/°C
			2.0 %	200 ppm/°C
			5.0 %	
			10.0 %	
			20.0 %	

GENERAL TECHNICAL SPECIFICATIONS

Tolerance 0.1 % to 20 %*

Temperature coefficient 15 ppm/°C to 200 ppm/°C*

Voltage coefficient 0.08 ppm/V to 0.75 ppm/V (depending on size and layout)

Product drawing and dimensions, refer to pages 8/9.
General technical specifications, refer also to type series HVR 969.

* Other values upon request.

TYPE SELECTION									
TYPES	TCR (ppm/°C)	0.1 %	0.25 %	0.50 %	1 %	2 %	5 %	10 %	20 %
969.11	15/25	50 K – 500 M	50 K – 500 M	50 K – 500 M	50 K – 500 M	50 K – 500 M	50 K – 500 M	50 K – 500 M	50 K – 500 M
11 W	50	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G
24 kV [air]	100	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G	20 K – 1 G
32 kV [oil]	200	20 K – 5 G	20 K – 5 G	20 K – 5 G	20 K – 5 G	20 K – 5 G	20 K – 5 G	20 K – 5 G	20 K – 5 G
969.23	15/25	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G
23 W	50	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G
48 kV [air]	100	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G	50 K – 1 G
72 kV [oil]	200	50 K – 10 G	50 K – 10 G	50 K – 10 G	50 K – 10 G	50 K – 10 G	50 K – 10 G	50 K – 10 G	50 K – 10 G
969.54	15/25	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G	100 K – 1 G
54 W	50	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G
48 kV [air]	100	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G	74 K – 1 G
72 kV [oil]	200	74 K – 10 G	74 K – 10 G	74 K – 10 G	74 K – 10 G	74 K – 10 G	74 K – 10 G	74 K – 10 G	74 K – 10 G
969.71	15/25	100 K – 1.5 G	100 K – 1.5 G	100 K – 1.5 G	100 K – 1.5 G	100 K – 1.5 G	100 K – 1.5 G	100 K – 1.5 G	100 K – 1.5 G
71 W	50	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G
64 kV [air]	100	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G	150 K – 1.5 G
96 kV [oil]	200	150 K – 15 G	150 K – 15 G	150 K – 15 G	150 K – 15 G	150 K – 15 G	150 K – 15 G	150 K – 15 G	150 K – 15 G
969.105	15/25	100 K – 2 G	100 K – 2 G	100 K – 2 G	100 K – 2 G	100 K – 2 G	100 K – 2 G	100 K – 2 G	100 K – 2 G
105 W	50	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G
96 kV [air]	100	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G	200 K – 2 G
148 kV [oil]	200	200 K – 25 G	200 K – 25 G	200 K – 25 G	200 K – 25 G	200 K – 25 G	200 K – 25 G	200 K – 25 G	200 K – 25 G

Length tolerance: max. –3 mm/+3 mm

Other resistance values and temperature coefficients upon request.