

# Precision High-Voltage Resistors

## Series MTX 968

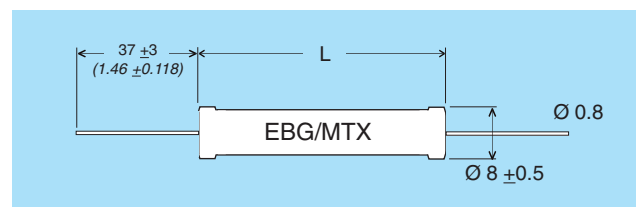
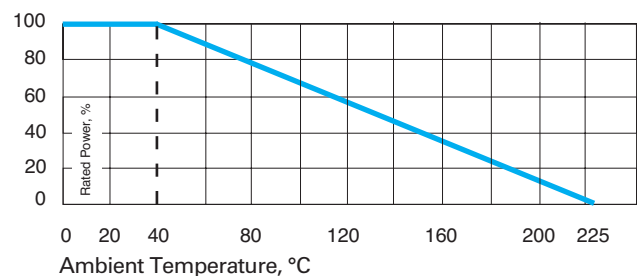
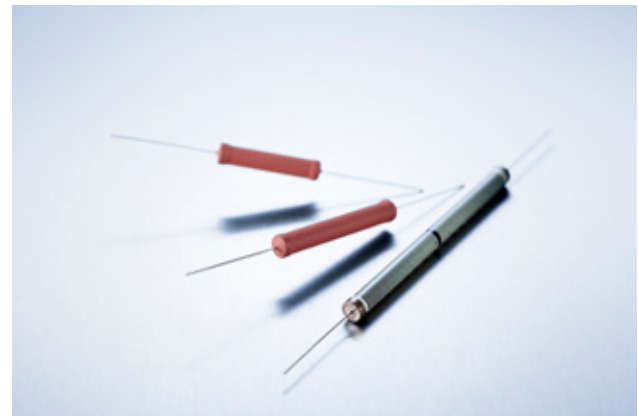
Precision High-Voltage Resistors with wide ohmic range (400 Ω–100 GΩ)

The MTX 968 resistor series is designed for use in voltage dividers, medical equipment, electrostatic devices, measuring equipment and current limiting devices where high stability, low TCR, high ohmic values and high short-term loads are required.

For use in oil- or potted applications, EBG recommends the use of polyimide coating instead of silicone conformal coating. Please ask for details!

### Specifications

- Resistance tolerance:  $\pm 0.1\%$  to  $\pm 10\%$
- Temperature coefficient:  $\pm 15$  ppm/°C to  $\pm 200$  ppm/°C. Specified TCR granted at +85°C related to room temp. +25°C! (others upon special request!)
- Load life:  $\Delta R/R$  0.5% max., 1,000 hours at rated power
- Dielectric strength: 1,000 V max. (25°C, 75% relative humidity)
- Thermal shock:  $\Delta R/R$  0.25% max.
- Moisture resistance:  $\Delta R/R$  0.25% max.
- Operating temperature: -55°C to +225°C
- Encapsulation: silicone conformal (A), polyimide coating (P) (suggested for oil- and potted applications) Please ask for details!
- Lead material: copper wire, gold-plated
- Standard storage conditions: 0 to 85°C at 80% RH max. for min. 12 months. For different conditions please contact your local EBG representative!



Type	P 40 °C Watt	U KVdc A in air	U KVdc P in air	U KVdc P in oil	Standard Resistance ranges (other on request)				
					Tolerance 1 – 10% TC ppm / °C 200	Tolerance 0.5 – 10% TC ppm / °C 100	Tolerance 0.25 – 10% TC ppm / °C 50	Tolerance 0.1 – 10% TC ppm / °C 25, 15	L mm
<b>968.2</b>	3.8	9	5.4	2 to 5 times voltage (A), depending on quality of isolation oil	400 R – 10 G	400 R – 1 G	400 R – 1 G	60 K – 500 M	27 ± 1
<b>968.3</b>	5	12	7.2		500 R – 15 G	500 R – 1.5 G	500 R – 1.5 G	80 K – 750 M	37 ± 1
<b>968.5</b>	7.5	18	11		900 R – 20 G	900 R – 2 G	900 R – 2 G	120 K – 1 G	52 ± 1
<b>968.7</b>	10	24	14.4		1.2 K – 30 G	1.2 K – 3 G	1.2 K – 3 G	180 K – 1.5 G	78 ± 1.5
<b>968.10</b>	12.5	36	21.6		1.7 K – 30 G	1.7 K – 4 G	1.7 K – 3 G	240 K – 2 G	103 ± 1.5
<b>968.12</b>	15	42	25.2		2.6 K – 30 G	2.6 K – 5 G	2.6 K – 3 G	300 K – 2 G	128 ± 2
<b>968.15</b>	17	54	32.4		3.2 K – 100 G	3.2 K – 6 G	3.2 K – 3 G	350 K – 2 G	153 ± 2

Our resistors are designed for operation in air and non-aggressive atmospheres.

For special applications (i.e. oil, casting, molding, SF6, etc.), please contact our nearest EBG representative.

The above spec. sheet features our standard products. For further options, please contact our local EBG representative or contact us directly. For updated information, please visit our website!