

Precision High-Voltage / High-Power Resistors

Series MTX 969

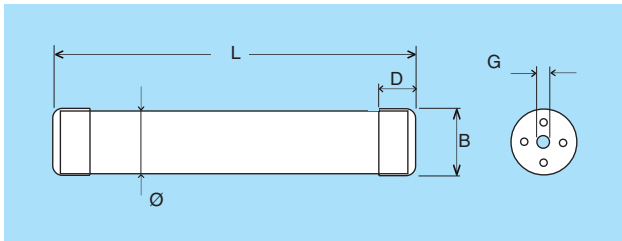
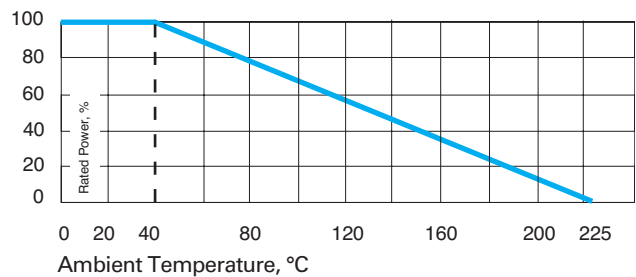
High-Power and High-Voltage Resistors up to 96 kV and 105 W

The MTX 969 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 polyimide coating instead of the silicone conformal coating. Please ask for details!

Specifications

- Resistance tolerance: $\pm 0.1\%$ to $\pm 10\%$
- Temperature coefficient: ± 10 ppm/ $^{\circ}\text{C}$ to ± 200 ppm/ $^{\circ}\text{C}$. Specified TCR granted at $+85^{\circ}\text{C}$ related to room temperature $+25^{\circ}\text{C}$! (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 $+225^{\circ}\text{C}$
- Encapsulation: silicone conformal, polyimide coating (suggested for oil and potted applications) Please ask for details!
- Lead material: caps, nickel-plated
- Max. torque: 2Nm for M4, 4Nm for M8
- Standard storage conditions: 0 to 85°C at 80% RH max. for min. 12 months. For different conditions please contact your local EBG representative!



Specifications

Dimensions (mm)

Type	L	B	\varnothing	D	G
969.11	81 ± 1	14.5 ± 0.2	13.5 ± 0.5	10 ± 0.2	M4
969.23	156 ± 2	14.5 ± 0.2	13.5 ± 0.5	10 ± 0.2	M4
969.54	160 ± 2	31.5 ± 0.2	30.5 ± 0.5	18 ± 0.2	M8
969.71	210 ± 2.5	31.5 ± 0.2	30.5 ± 0.5	18 ± 0.2	M8
969.105	308 ± 3.5	31.5 ± 0.2	30.5 ± 0.5	18 ± 0.2	M8

Type	P 40 $^{\circ}\text{C}$ Watt	U KVdc	Standard Resistance ranges (other on request)		
			Tolerance 2 – 10% TC ppm / $^{\circ}\text{C}$ 150, 200	Tolerance 0.5 – 10% TC ppm / $^{\circ}\text{C}$ 50, 100	Tolerance 0.1 – 10% TC ppm / $^{\circ}\text{C}$ 15, 25
969.11	11	24	500 R – 5 G	500 R – 1 G	50 K – 500 M
969.23	23	48	700 R – 10 G	700 R – 1 G	100 K – 1 G
969.54	54	48	2 R – 10 G	2 R – 1 G	100 K – 1 G
969.71	71	64	20 R – 15 G	20 R – 1.5 G	100 K – 1.5 G
969.105	105	96	80 R – 25 G	80 R – 2 G	100 K – 2 G

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!