

# Series MTX 968

Ohmic range (400 Ω - 30 GΩ), up to 54 kV operating voltage

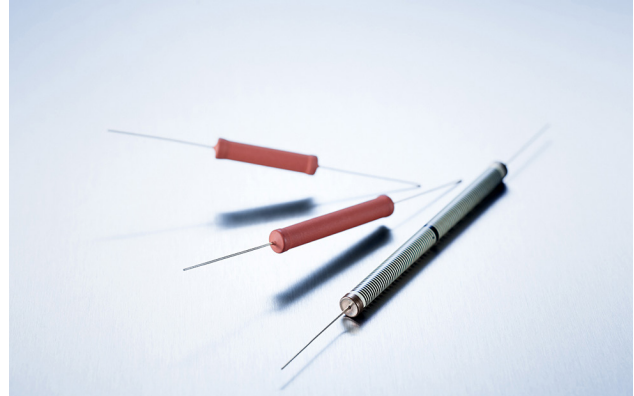
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The MTX 968 resistor series is designed for use in voltage dividers, medical equipment, electrostatic devices, measuring equipment and current limiting devices where high stability, low TCR, high ohmic values and high short-term loads are required.

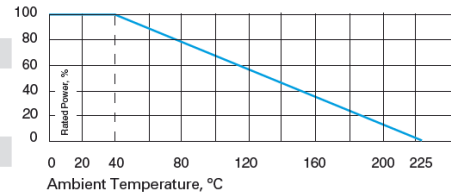
## Features

- up to 54 kV operating voltage
- Tolerance range ±0.1% to ±10 %
- Ohmic range 400 Ω to 30 GΩ
- Non-Inductive design
- ROHS compliant



## Technical Specifications

<b>Resistance value</b>	400 Ω ≤ 30 GΩ (see model specifications)
<b>Resistance tolerance</b>	±0.1 % to ±10 %
<b>Temperature coefficient</b>	±15 ppm/°C to ±200 ppm/°C (at +85°C ref. to +25°C) lower TCR on special request for limited ohmic values
<b>Max. Operating temperature</b>	-55°C to +225°C
<b>Dielectric strength</b>	> 1,000 V (25°C, 75% relative humidity)
<b>Load life</b>	ΔR/R 0.5% max., 1,000 hours at rated power
<b>Moisture resistance</b>	ΔR/R 0.25% max.
<b>Thermal shock</b>	ΔR/R 0.25% max.
<b>Encapsulation</b>	<b>standard coating: silicone conformal (A)</b> we recommend 2xpolyimide coating (P) for use in oil and potted applications (ask for details) other coatings available on special request
<b>Lead material</b>	copper wire, gold-plated
<b>Weight</b>	depending on model no. (ask for details)

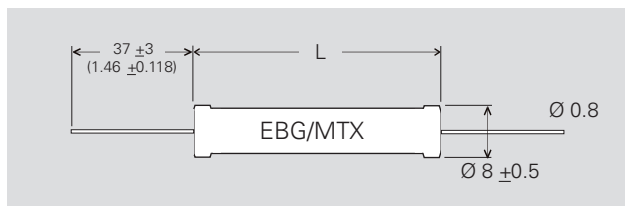


## How to make a request

Model no.\_Ohmic Value\_Tolerance\_TCR

**For example:**  
MTX 968.3 36M 10% 100ppm

**Example for optional coating:**  
MTX 969.15 100M 1% 100ppm 2xpolyimide coating



## Model Specifications

Model no.	P Wattage 40 °C	V KVdc A in air	V KVdc P in air	V KVdc P in oil	Resistance values				L in mm
					Tolerance <b>1 - 10%</b> TC ppm / °C <b>200</b>	Tolerance <b>0.5 - 10%</b> TC ppm / °C <b>100</b>	Tolerance <b>0.25 - 10%</b> TC ppm / °C <b>50</b>	Tolerance <b>0.1 - 10%</b> TC ppm / °C <b>25, 15</b>	
<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 - 30 G	3.2 K - 6 G	3.2 K - 3 G	350 K - 2 G	153 ± 2

Our resistors are designed for operating in air and non-aggressive atmospheres. For special applications (i.e. oil, casting, molding, SF6, etc.), please contact our local EBG representative or contact us directly.

The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.

# Disclaimer



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