

Series MTX 1000

up to 32 kV operating voltage



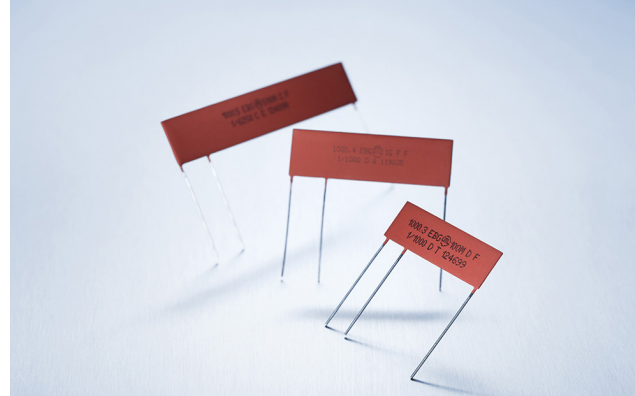
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The MTX 1000 series is used for advanced resistor networks where high precision is demanded. Custom designed precision voltage dividers support a wide range of resistance value, voltage ratio, close tolerances, low temperature coefficients and voltage ratings as well as liberty for mechanical dimensions.

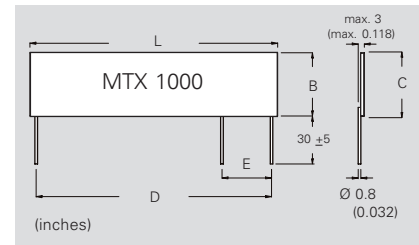
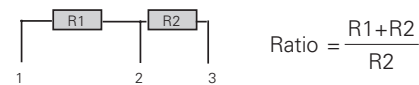
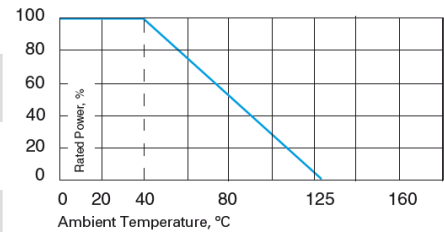
Features

- up to 32 kV operating voltage
- Absolute / ratio tolerance range $\pm 0.1\%$ to $\pm 1\%$
- Ohmic value and ratios per customer requirements
- Non-Inductive design
- ROHS compliant



Technical Specifications

Resistance value	customer specified
Resistance tolerance	absolute tolerance: $\pm 0.1\%$ to $\pm 1\%$ ratio tolerance: $\pm 0.1\%$ to $\pm 1\%$ depending on ohmic value
Temperature coefficient	absolute TCR: ± 50 ppm/ $^{\circ}\text{C}$ to ± 15 ppm/ $^{\circ}\text{C}$ ratio TCR: ± 15 ppm/ $^{\circ}\text{C}$ to ± 5 ppm/ $^{\circ}\text{C}$ depending on ohmic value
Ratios	standard ratios: 100:1, 1000:1, 10000:1 (others on special request)
Max. operating temperature	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$
Dielectric strength	> 1,000 V (25 $^{\circ}\text{C}$, 75 % relative humidity)
Insulation resistance	> 10,000 M Ω (500 V, 25 $^{\circ}\text{C}$, 75 % relative humidity)
Overload	$\Delta R/R$ 0.25 % max. 1.5x Pnom, 5 sec. c
Load life	$\Delta R/R$ 0.15 % max., 1,000 hours at rated power
Moisture resistance	$\Delta R/R$ 0.25 % max.
Thermal shock	$\Delta R/R$ 0.2 % max.
Encapsulation	standard silicone conformal (U) or glass coating (G) we recommend 2xpolyimide coating for use in oil and potted applications (ask for details)
Lead material	tinned copper
Weight	depending on model no. (ask for details)



Model Specifications

Model no.	P Wattage	V Voltage kV DC	Dimensions in mm				
			L	B	C	D	E
1000.2	0.5	8*	26	8	9.1	22.9	5.08
1000.3	1.2	15*	38.5	13	14.2	35.6	7.62
1000.4	1.8	24*	51.5	15.5	16.6	48.3	10.16
1000.5	2.4	32*	77.5	15.5	16.6	73.4	10.16

* for glass coating and 2xpolyimide coating, when used in open air, please use max. voltage x 0.6 (standard ratings valid when parts used in clean air)

How to make an order

Model no_ Ohmic Value_abs. & ratio Tolerance_abs. & ratio TCR_ratio _coating

For example:

MTX 1000.2 20M abs. Tol 0.25%, abs. TCR 25ppm, ratio Tol. 0.1%, ratio TCR 15ppm, 1000:1 U

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

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