Precision high-voltage dividers

MTXA 2000

Precision high-voltage divider datasheet

For precision resistor networks. Resistance, divider ratio, tolerances and temperature coefficients can be customized.

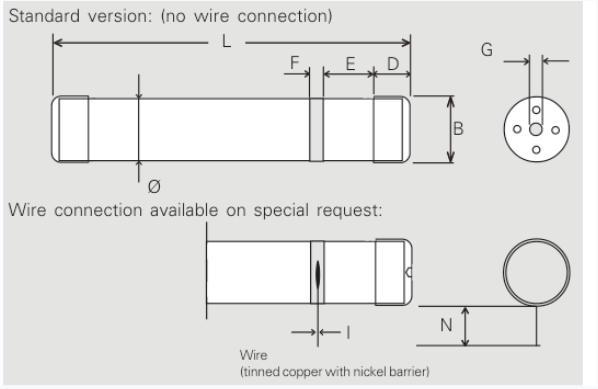
Up to 80 kV DC and up to 50 W at 40 °C. Non-inductive design, RoHS compliant.



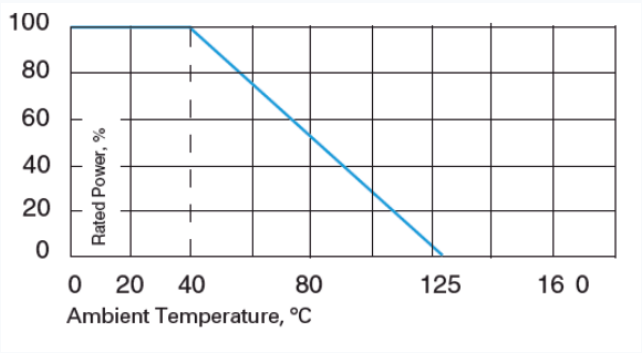
Technical specifications

Parameter	Specification or test condition
Resistance, tolerance and TCR	See model specifications
Operating temperature	-55 °C to +125 °C
Dielectric strength	>1000 V (25 °C, RH 75%)
Load life	ΔR/R 0.15% max. after 1000 h at rated power
Moisture resistance	ΔR/R ≤0.25%
Thermal shock	ΔR/R ≤0.2%
Coating	Standard silicone conformal coating. Two coats of polyimide recommended for oil or potted applications.
End cap material	Bare brass
Torque	M4: 1.8-2 N·m / M8: 3.8-4 N·m
Connection	Standard version has no tap wire. Pre-soldered wire is available on request.
Weight	Model dependent, details on request

Outline and derating



Standard without tap wire · Optional tin-plated copper wire with nickel barrier



Rated power (%) vs. ambient temperature (°C)

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Models, dimensions and ordering

Model specifications

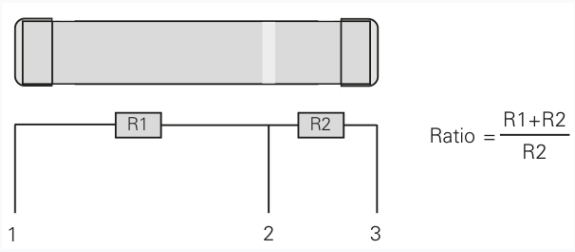
Model	Power at 40 °C (W)	Voltage (kV DC)
2000.23	10	40
2000.105	50	80

Parameter	Option 1	Option 2	Option 3
Absolute TCR	50 ppm/°C	25 ppm/°C	15 ppm/°C
Absolute tolerance	0.25%-1%	0.1%-1%	0.1%-1%
Ratio TCR	25 ppm/°C	15 ppm/°C	15 / 10 ppm/°C
Ratio tolerance	0.25%-0.5%	0.1%-0.5%	0.1%-0.5%
2000.23	2 MΩ-2 GΩ 1:1000-1:20 000	20 MΩ-1 GΩ 1:1000-1:20 000	20 MΩ-500 MΩ 1:1000-1:10 000
2000.105	20 MΩ-3 GΩ 1:1000-1:20 000	20 MΩ-2 GΩ 1:1000-1:20 000	20 MΩ-1 GΩ 1:1000-1:10 000

Each model row lists total resistance R1 + R2 followed by the divider-ratio range.

Outline dimensions (mm)

Model	L	B	Ø	D	E	F	G	I	N
2000.23	156 ± 2	14.5 ± 0.2	13.5 ± 0.5	10 ± 0.2	8.5 ± 0.2	5 ± 0.5	M4	1.0 ± 0.1	30.0 ± 1
2000.105	308 ± 2.5	31.8 ± 0.3	30.5 ± 0.5	18 ± 0.2	40 ± 2	7 ± 0.5	M8	1.0 ± 0.1	30.0 ± 1



Divider ratio = (R1 + R2) / R2

Ordering information

Model / total resistance / absolute and ratio tolerance / absolute and ratio TCR / divider ratio
Source request example: MTX 2000.105, 500 MΩ, 2% absolute tolerance, 25 ppm/°C absolute TCR, 1% ratio tolerance, 15 ppm/°C ratio TCR, 10 000:1. Example tolerances are outside the table ranges and require confirmation.

Technical source

Miba Resistors datasheet (2026) · 01_Miba_Resistors_MTX_2000_2026.pdf
Ratings are for selection guidance and refer to the original manufacturer models. Confirm special configurations and suitability for the intended operating conditions.