

Series MTX 2000

up to 50 W and up to 80 kV

A Miba Group Company

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The MTX 2000 series consists of high-quality, high-precision, high-power, high-voltage dividers for use in sophisticated resistor networks. These custom designs support a wide range of resistance value, tight voltage ratios, close tolerances and low TCRs.

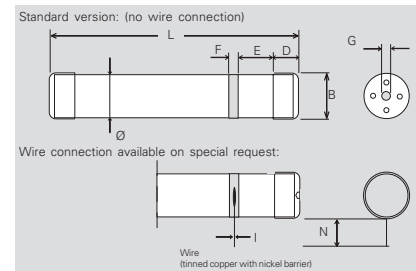
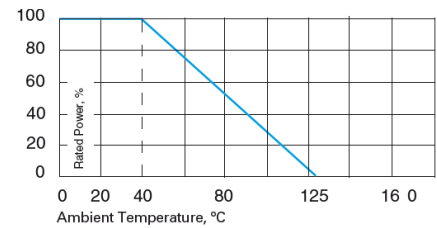
Features

- up to 80 kV operating voltage
- up to 50 W operating power
- Non-Inductive design
- ROHS compliant



Technical Specifications

Resistance value	see model specifications below
Resistance tolerance	see model specifications below
Temperature coefficient	see model specifications below
Max. operating temperature	-55°C to +125°C
Dielectric strength	> 1,000 V (25°C, 75 % relative humidity)
Load life	ΔR/R 0.15 % max., 1,000 hours at rated power
Moisture resistance	ΔR/R 0.25 % max.
Thermal shock	ΔR/R 0.2 % max.
Encapsulation	standard coating: silicone conformal we recommend 2xpolyimide coating for use in oil and potted applications (ask for details)
Lead material	caps, nickel-plated
Torque	1.8 Nm to 2 Nm for M4, 3.8 Nm to 4 Nm for M8
Connection	standard version having no wire tap connection. Pre soldered wire connection available on special request
Weight	depending on model no. (ask for details)



Dimensions in mm

Model no.	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

Model Specifications

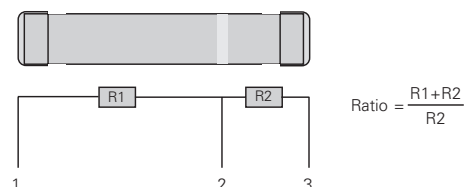
Model no.	P Wattage 40°C	V Voltage kV DC	TCR absolute			
			50 ppm/°C	25 ppm/°C	15 ppm/°C	
			Tolerance absolute			
			0.25 % - 1 %	0.1 % - 1 %	0.1 % - 1 %	
Model no.	P Wattage 40°C	V Voltage kV DC	TCR ratio			
			25 ppm/°C	15 ppm/°C	15 / 10 ppm /°C	
			Tolerance ratio			
			0.5 % - 0.25%	0.5 % - 0.1%	0.5 % - 0.1 %	
2000.23	10	40	R1 + R2 Ratio	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	50	80	R1 + R2 Ratio	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

How to make an order

Model no._Ohmic Value_abs. & ratio Tolerance_abs. & ratio TCR_ratio

For example:

MTX 2000.105 500M abs. tol. 2% abs. TCR 25ppm, ratio tol. 1%, ratio TCR 15ppm, 10.000:1



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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