

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.

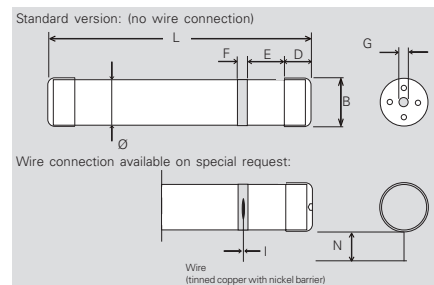
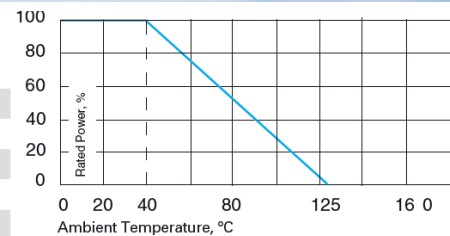
Features

- 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

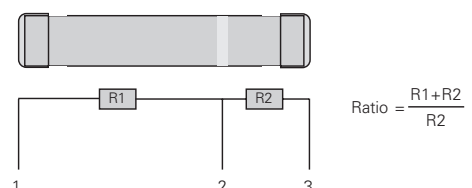
| Model no. | P Wattage 40°C | V Voltage kV DC | TCR absolute | | | |
|-----------------|----------------------|-----------------------|--------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| | | | 50 ppm/°C | 25 ppm/°C | 15 ppm/°C | |
| | | | Tolerance absolute | | | |
| | | | 0.25 % - 1 % | 0.1 % - 1 % | 0.1 % - 1 % | |
| | | | 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 a request

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.