

Series HVT

up to 20 kV operating voltage

A Miba Group Company

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The HVT series of high-voltage dividers is available in six different sizes from 5 kV to 20 kV voltage rating. In these highly reliable components, EBG combines its state-of-the-art high-voltage technology with the unique METOXFILM stability. The HVT series provide tight ratio tolerance, TCR tracking and custom-designed values.

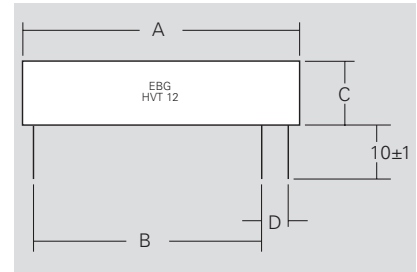
Features

- up to 20 kV operating voltage
- fully customized values and ratios
- on request custom designed version available; maximum ceramic substrate size 4 inch (101.6 mm)
- Non-Inductive design
- ROHS compliant



Technical Specifications

| | |
|-----------------------------------|---|
| Resistance value | 100 M and 200 M standard (other values available on special request) |
| Resistance tolerance | absolute tolerance: $\pm 1\%$ for all resistors ratio tolerance: down to $\pm 0.1\%$ |
| Temperature coefficient | absolute TCR: ± 100 ppm/ $^{\circ}\text{C}$ (at $+85^{\circ}\text{C}$ ref. to $+25^{\circ}\text{C}$) lower absolute TCR's available on request ratio TCR: ± 25 ppm/ $^{\circ}\text{C}$ (10 ppm/ $^{\circ}\text{C}$ on request) |
| Max. operating temperature | -55°C to $+155^{\circ}\text{C}$ |
| Voltage coefficient | typical -0.4 ppm/V |
| Ratios | 1,000:1 or 100:1 (custom ratios available) |
| Overload | 1.5 times rated voltage for 5 sec. ΔR ratio 0.5 % max. |
| Load Life | ratio ΔR with rated voltage applied for 1,000 hours 0.4 % max. |
| Moisture resistance | MIL-STD-202, method 106, ratio ΔR 0.5 % max. |
| Thermal shock | MIL-STD-202, method 107, Cond. C, ratio ΔR 0.25 % max. |
| Encapsulation | HVT-11, -16, -21: silicone conformal with dielectric withstanding voltage of 1,000 V HVT-5, -7, -12: printed silicone coating |
| Lead material | OFHC copper, tin-plated, 0.60 mm |
| Weight | depending on model no. (ask for details) |



Model Specifications

| Model no. | Voltage | Resistance value | P Wattage max. | Dimensions in mm ± 0.4 (inches ± 0.016) | | | |
|-----------|---------|------------------|----------------|--|-----------------|-----------------|-----------------|
| | | | | A | B | C | D |
| HVT-5 | 5 kV | 100 M Ω | 0.3 | 25.40 (1.00) | 18.00 (0.71) | 7.62 (0.30) | 5.08 (0.20) |
| HVT-7 | 7 kV | 100 M Ω | 0.5 | 25.40 (1.00) | 18.00 (0.71) | 12.70 (0.50) | 5.08 (0.20) |
| HVT-11 | 10 kV | 100 M Ω | 1.0 | 38.10 (1.50) | 28.00 (1.10) | 26.40 (1.04) | 5.08 (0.20) |
| HVT-12 | 12 kV | 200 M Ω | 1.0 | 52.00 (2.05) | 33.00 (1.30) | 12.70 (0.50) | 15.24 (0.60) |
| HVT-16 | 15 kV | 200 M Ω | 1.5 | 52.00 (2.05) | 42.00 (1.65) | 18.00 (0.71) | 5.08 (0.20) |
| HVT-21 | 20 kV | 200 M Ω | 3.0 | 52.00 (2.05) | 42.00 (1.65) | 25.40 (1.00) | 5.08 (0.20) |

How to make an order

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

For example:

HVT-7 100M abs. tol. 1%, abs. TCR 100ppm, ratio tol. 1%, ratio TCR 25ppm 100:1

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