

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.

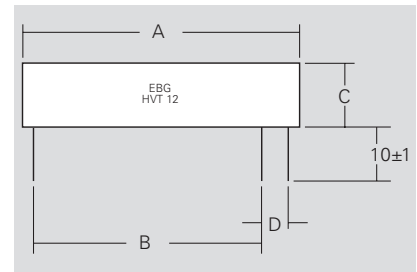
Features

- 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	2.0	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.