

# 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.

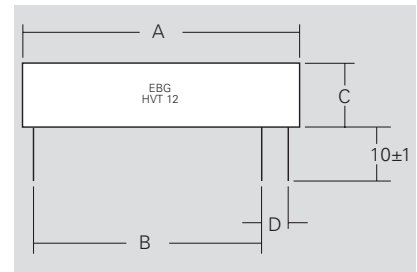
## Features

- 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

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



## Model Specifications

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