

Precision High Voltage Dividers

Type: HVT

Standard Sizes: HVT 20 / 25 / 30 / 40 / 50 / 55 / 80

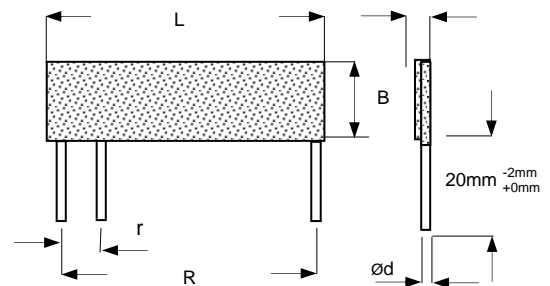
Features:

- Customer specific design, special versions possible
- Radial leads, variable lead spacing by bending
- High precision of ratio (0.25 %)
- Low relative TCR (25 ppm/K)
- High working voltages (33 kV)
- Resistance values up to 10 Tera-Ohm
- Low values of VCR
- Climatic protection by lacquer coating



Dimensions (preference sizes):

Size	L	B	D	R	r	d
HVT 20	20	6.0	1.4	17.5	custom-specific	0.40 ±0.05
HVT 25	25.0 (1")	9.0	1.4	22.9 (0.9")		0.40 ±0.05
HVT 30	30.0	6.0	1.4	27.5		0.40 ±0.05
HVT 40	40.0	6.0	1.4	37.8		0.40 ±0.05
HVT 50	50.0	12.5	1.4	47.8		0.40 ±0.05



L = length, B = width, D = thickness (Tolerance of dimensions: ± 0.5 mm)
 R = standard outer lead spacing (other spacing possible by bending)
 d = wire diameter (in mm), other diameters possible (changes D)
 other costum-specific sizes on request

Packaging:

Bulk in plastic bags or boxes

Minimum quantity: - 30 pieces for existing types/values
 - 100 pieces for new developments

Inquiry / Ordering Data:

Type / Dimensions – Working voltage – Resistance values – Ratio – Outer Lead spacing – Inner Lead spacing - Tolerance absolute – Tolerance ratio – TCR absolute – TCR relative – Stability requirements – Environmental conditions

The standard measuring voltage is 10V, required different voltages are to indicate explicitly.
 The standard range is 1V ... 100V (step 0.1V), other Voltages (0.1 – 1000V) on request.

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Technical data – depending on size (examples):

Size	HVT 20	HVT 25	HVT 30	HVT 40	HVT 50	HVT 55	HVT 80
Working voltage U (kV)	6	10	8	15	25	25	33
Power rating P ₇₀ (W)	1	1	1	1.2	3.0	1.2	2.0
Lowest value	1 M	1 M	1 M	5 M	5 M	10 M	20 M
Highest value	100 G	100 G	100 G	100 G	100 G	100 G	100 G
Ratio max.	1:2.000	1:3.000	1:3.000	1:10.000	1:15.000	1:20.000	1:20.000

General technical data:

Temperature range	-55°C ... +125°C
Temperature coefficient abs.	± 50 ... ± 500 ppm/K
Temperature coefficient rel.	± 25 ... ± 100 ppm/K
Tolerances abs.:	± 1 ... ± 20 %
Tolerances rel. (ratio):	± 0.25... ± 5 %
Climatic category to DIN EN 60068-1	55/125/56
Humidity- / contact protection	Lacquer coating

More technical data and mechanical drawings for specific size on request.

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