

# SRT Resistor Technology

## Precision High Voltage Dividers

Type: HVT

Standard Sizes: HVT 20 / 25 / 30 / 40 / 50 / 75 / 100

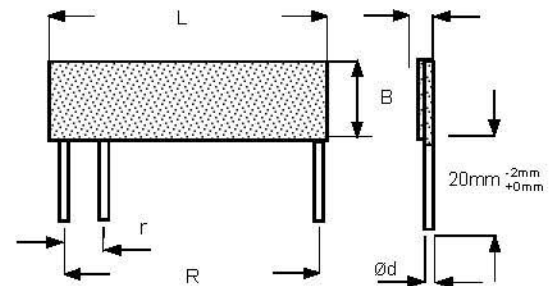
### Features:

- 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
- Resistance values up to 1 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	17.0	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
HVT 75	75.0	9.0	1.4	72.8		0.40 ±0.05
HVT 100	100.0	9.0/12.5	1.4	97.8		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 custom-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 10 V, required different voltages are to indicate explicitly.

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### Technical data – depending on size (examples)<sup>2)</sup>:

Size	HVT 20	HVT 25	HVT 30	HVT 40	HVT 50	HVT 75	HVT 100
Max. working voltage U (kV) <sup>1)</sup>	8	10	8	15	25	36	50
Power rating P <sub>70</sub> (W)	1	1	1	1.2	3.0	4,5	6,0
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	1 T	1 T	1 T
Ratio max.	1:2.000	1:3.000	1:3.000	1:10.000	1:15.000	1:20.000	1:20.000

1) Custom specific parts: the maximum working voltage depends on resistance value and ratio

2) Extreme values are not realizable together in all cases

### General technical data<sup>2)</sup>:

Temperature range	-55°C ... +125°C
Temperature coefficient abs.	± 50 ... ± 500 ppm/K
Temperature coefficient rel.	± 25 ... ± 100 ppm/K
Tolerances, absolute:	± 1 ... ± 20 %
Tolerances relative (ratio):	± 0.25... ± 5 %
Climatic category acc. to EN 60068-1	55/125/56
Humidity- / contact protection	Lacquer coating <sup>3)</sup>

3) Resistant to most solvents. For cleaning the use of isopropyl alcohol (IPA) is recommended. The use of acetone and methylene chloride is **not** allowed.

More technical data for specific size: on request.

Versions with single in-line leadframes are available on request as well as versions with overglaze.