## **SRT Resistor Technology**

**High Voltage Resistors** 

Type: HVR

Sizes: HVR 25, HVR 30, HVR 40, HVR 50

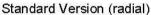
#### Features:

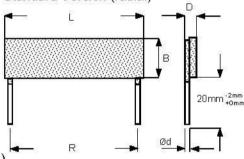
- · High Voltage Resistors in thick film technology
- Radial leads, variable lead spacing by bending
- · Climatic protection by silicone coating
- Chip version available (without coating)
- Special versions possible
- Resistance values up to 10 Tera-Ohm
- Low values of TCR and VCR



#### **Dimensions:**

Size	L	В	D	R	d
HVR 25	25.0 (1")	9.0	1.4	22.9 (0.9")	0.40 ±0.05
HVR 30	30.0	6.0	1.4	27.5	0.40 <sup>±0.05</sup>
HVR 40	40.0	6.0	1.4	37.8	0.40 <sup>±0.05</sup>
HVR 50	50.0	12.5	1.4	47.8	0.40 <sup>±0.05</sup>





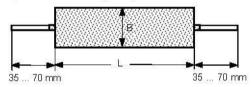
L = length, B = width, D = thickness (Tolerance of dimensions:  $\pm 0.5$  mm)

R = standard lead spacing (other spacing possible by bending)

d = wire diameter (in mm), other diameters possible (changes D)

Axiale versions, versions with formed leads and versions with leadframes are available on request.

#### Special Version (axial)



#### Packaging:

Bulk in plastic bags or boxes

Minimum quantity: 10 pieces per value

The labeling is made at the packing unit only.

The components are not marked (only on request at individual cases).

#### Ordering data:

Type - value - tolerance - TCR

Example: HVR 30 10G ±10% TCR 100

If no data for TCR are supplied, the highest value in the table will be supplied.

The standard measuring voltage is 10V, other voltages on request.

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Sizes: HVR 25, HVR 30, HVR 40, HVR 50

### Technical data - depending on size:

Size	HVR 25	HVR 30	HVR 40	HVR 50
Power rating $P_{70}(W)$ ( $P_{125} = 0W$ )	1.0	1.0	1.2	3.0
Working voltage U_, U <sub>eff</sub> (V)	15 KV	10 KV	20 KV	30 KV

Ranges / Tolerances / TCR <sup>1)</sup> / VCR <sup>2)</sup>				,
1M – 100M	0.25//10%	0.25//10%	0.25//10%	0.25//10%
	TC 25/50/100	TC 25/50/100	TC 25/50/100	TC 25/50/100
	1 ppm/V	2 ppm/V	1 ppm/V	1 ppm/V
>100M - 1G	1/2/5/10/20%	1/2/5/10/20%	1/2/5/10/20%	1/2/5/10/20%
	TC 50/100/250	TC 50/100/250	TC 50/100/250	TC 25/50/100
	2 ppm/V	5 ppm/V	2 ppm/V	1 ppm/V
>1G - 100G	5/10/20/30%	5/10/20/30%	5/10/20/30%	5/10/20/30%
	TC 250/500	TC 250/500	TC 250/500	TC 100/250
	10 ppm/V	20 ppm/V	10 ppm/V	5 ppm/V
>100G – 1T	5/10/20/30%	5/10/20/30%	5/10/20/30%	5/10/20/30%
	TC 500/1000	TC 500/1000	TC 500/1000	TC 250/500
	50 ppm/V	100 ppm/V	50 ppm/V	25 ppm/V
>1T – 10T	=	=	H	10/20/30% TC/VCR on request

<sup>1)</sup> TCR: in ppm/K; TC25/50: Temperature range +25°C...+85°C

Closer values of tolerance, TCR and VCR, other dimensions or voltage dividers on request and agreement

#### General technical data:

Temperature range	-55°C +125°C		
Climatic category to EN 60068-1	55/125/56		
Humidity- / contact protection	Lacquer coating 3)		

Long term stability	≤10G	>10G
Storage 125°C/1000h	<1%	<2%
Max. voltage/1000h	<1%	<2%

<sup>&</sup>lt;sup>3)</sup>Resistant to most solvents. For cleaning the use of isopropyl alcohol (IPA) is recommended. The use of acetone and methylene chloride is **not** allowed.

<sup>2)</sup> VCR: typical values