

High Voltage Resistors

Type: HVR

Sizes: HVR 30, HVR 40, HVR 50

Features:

- High Voltage Resistors in Thickfilm
- Variable lead spacing by bending
- Resistance values up to 1 Teraohm
- Low values of TCR and VCR

Dimensions:

Size	L	B	D	R	d
HVR 30	30	6	1	27.5	0.4 ^{±0.05}
HVR 40	40	6	1	37.8	0.4 ^{±0.05}
HVR 50	50	12.5	1	47.8	0.4 ^{±0.05}

L = Length, B = Width, D = Thickness, d = wire diameter (in mm)
R = Standard lead spacing (other spacings possible by bending)
Tolerances of dimensions: ±0,5 mm

Packaging:

Bulk in plastic bags or tubes

Minimum quantity: 100 pcs. per value

Ordering data:

Type/Size – Value – Tolerance – TCR – Measuring voltage

Example: HVR 10 G ± 10 % TCR250 Measuring voltage 20 V

If no data for TCR and Measuring voltage are supplied,
the standard value (higher value in the table on next
page) and measuring voltage of 10 V is used.

SRT Resistor Technology

High Voltage Resistors

Type: HVR

Sizes: HVR 30, HVR 40, HVR 50

Technical data – depending on size:

Size	HVR 30	HVR 40	HVR 50
Power rating P_{70} (W) ($P_{125} = 0$ W)	1.0	1.2	3.0
Working voltage U_{-} , U_{eff}	10 kV	20 kV	30 kV

Ranges/Tolerances/ TCR/VCR ¹⁾ :			
1 M – < 100 M	TCR 50/100 1/2/5/10 % VCR < 1 ppm/V	TCR 50/100 1/2/5/10 % VCR < 1 ppm/V	TCR 50/100 1/2/5/10 % VCR < 1 ppm/V
100 M – < 1 G	TCR 100/250 2/5/10/20 % VCR < 5 ppm/V	TCR 100/250 2/5/10/20 % VCR < 2 ppm/V	TCR 50/100 2/5/10/20 % VCR < 1 ppm/V
1 G – < 100 G	TCR 250/500 5/10/20/30 % VCR < 30 ppm/V	TCR 250/500 5/10/20/30 % VCR < 20 ppm/V	TCR 100/250 5/10/20/30 % VCR < 10 ppm/V
100 G – 1 T	TCR 500/1000 5/10/20/30 % VCR < 150 ppm/V	TCR 500/1000 5/10/20/30 % VCR < 100 ppm/V	TCR 250/500 5/10/20/30 % VCR < 50 ppm/V

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

1) TCR50: Temperature range +25°C... +125°C

General technical data:

Temperature range	-55°C... +125°C
Climatic category to DIN IEC 68	55/125/56
Humidity protection	Lacquer coating

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

Issue: 03/99

BREL Precision Components, Inc.
1621 West University Parkway
Sarasota, FL 34243

Phone: ☐ 941-355-9791
Sales: ☐ 800-237-4564
Fax: ☐ 941-355-1530
E-Mail: ☐ sales@brelintl.com