

HVM-Series High Value Resistors, radial leaded

Sizes: HVM 25, HVM 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

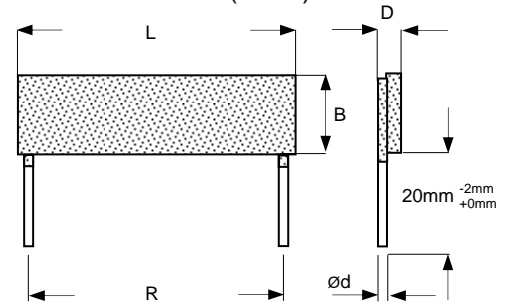


Dimensions:

Size	L	B	D	R	d
HVM 25	25.0 (1")	9.0	1.4	22.9 (0.9")	0.40 ±0.05
HVM 50	50.0	12.5	1.4	47.8	0.40 ±0.05

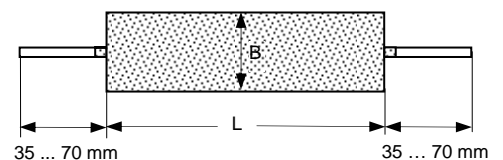
L = length, B = width, D = thickness (Tolerance of dimensions: ±0.5 mm)
 R = standard lead spacing (other spacing possible by bending)
 d = wire diameter (in mm), other diameters possible (changes D)

Standard Version (radial)



Axial versions, versions with formed leads and versions with lead frames 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.
 Any marking of single components is not available (only on request at individual cases).

Ordering data:

Type – value – tolerance – TCR
 Example: HVM 50 10G ±10% TCR 100

If no requirement for TCR is given, the standard value (highest value in table) will be supplied.
 Standard measuring voltage is 10V (50V for values >1G). Different voltages on request and agreement (specify explicitly).

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Technical data – depending on size:

Size	HVM 25	HVM 50
Power rating P ₇₀ (W) (P ₁₂₅ = 0W)	1.0	3.0
Working voltage U ₋ , U _{eff} (V) ³⁾	15 KV	30 KV

Ranges / Tolerances / TCR ¹⁾ / VCR ²⁾		
1M – 100M	0.25 / ... / 20% TC 25/50/100 1 ppm/V	0.25 /.../ 20% TC 25/50/100 1 ppm/V
>100M – 300M	0.25 / ... / 20% TC 25/50/100 2 ppm/V	0.25 /.../ 20% TC 25/50/100 1 ppm/V
>300M – 1G	1 / ... / 20% TC 25/50/100 2 ppm/V	1 / ... / 20% TC 25/50/100 1 ppm/V
>1G – 100G	5 / ... / 30% TC 100/250 10 ppm/V	5 / ... / 30% TC 50/100 5 ppm/V
>100G – 1T	5 / ... / 30% TC 250/500 50 ppm/V	5 / ... / 30% TC 100/250 25 ppm/V
>1T – 10T	10 / 20 / 30% TC/VCR on request	10 / 20 / 30% TC/VCR on request

¹⁾ TCR: in ppm/K; temperature range +25°C...+125°C; TCR25/50 and values above 1G: temp. range +25°C...+85°C

²⁾ VCR: typical values

³⁾ Continuous operating voltage: $U = \sqrt{P \cdot R}$

Closer tolerance values, lower TCR and VCR values as well as higher resistance values on request and agreement.

General technical data:

Operating temperature range	-55°C ... +125°C
Climatic category to EN 60068-1	55/125/56
Humidity- / contact protection	Lacquer coating ⁴⁾

Long term stability	≤ 1G	1 - 10G	> 10G
Storage 125°C/1000h	< 0,5%	< 1%	< 2%
Storage 25°C/1000h	< 0,1%	< 0,5%	< 1%
Max. voltage/1000h	< 0,25%	< 1%	< 2%

⁴⁾ Resistant to most solvents. For cleaning the use of isopropyl alcohol (IPA) is recommended.
The use of acetone and methylene chloride is **not** allowed.