

Insulated wirewound Resistors

Axial, Fiberglass core

Bakelite Moulded case



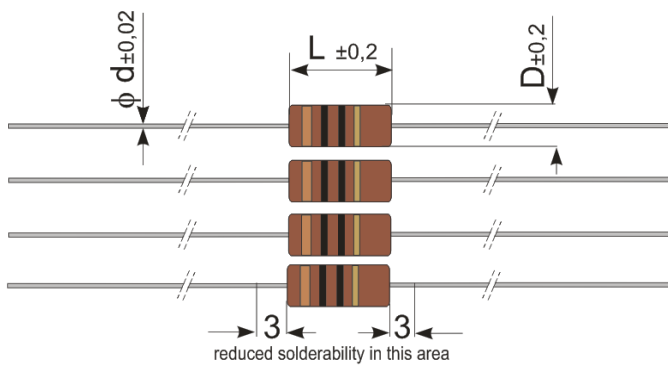
ELECTRICAL SPECIFICATIONS

| Type | | | BW234-0 | BW235-0 |
|--|-----------------|--------------------------------------|---|-------------|
| <u>Nominal Power rating</u> | P ₂₅ | [W] | 1,1 | 2,1 |
| | P ₇₀ | | 0,75 | 1,5 |
| <u>Resistance range</u> | | [Ω] | 0R1 ... 1K2 | 0R1 ... 2K4 |
| <u>E-Series</u> | | | E24 (5[%]) ; E12 (10[%]) | |
| <u>Tolerances</u> | | ± [%] | 5 (J) ; 10 (K) | |
| <u>Temperature coefficient</u> | | [10 ⁻⁶ *K ⁻¹] | *Depends on the value, please check the table below | |
| <u>Temperature range</u> | | [°C] | -55 ... +175 | |
| <u>Thermal resistance</u> | | [KW ⁻¹] | 140 | 80 |
| <u>Dielectric withstanding voltage</u> <i>IEC115-1 clause 4.7 (1[<i>min</i>])</i> | | [V] | 700 | 1000 |
| <u>Insulation resistance</u> <i>IEC115-1 clause 4.6</i> | | [MΩ] | > 10 ⁴ | |
| <u>Max. working voltage</u> | | [V] _{RMS} | $\sqrt{P_{70} * R}$ | |

PERFORMANCE DATA

| | | |
|---|-------------------------------------|-------------------------------------|
| <u>Derating linear</u> | [°C] | 70...175 (0W) |
| <u>Climatic category</u> | | 55/175/56 |
| <u>Failure Rate</u> <i>(Total, g_o, max, 60% cont. lev.)</i> | [10 ⁻⁹ h ⁻¹] | appr. 100 depends on value |
| <u>Endurance</u> <i>IEC60115-1 clause 4.25 (P₇₀, @ 70[°C], 1000[h])</i> | ± [%] | 5,0 |
| <u>Damp heat, steady state</u> <i>IEC115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</i> | ± [%] | 2,0 |
| <u>Climatic sequence</u> <i>IEC115-1 clause 4.23</i> | ± [%] | 2,0 |
| <u>Terminal strength</u> | ± [%] | 1,0 |
| <u>Terminal Tensile Strength</u> | [N] | 40 |
| <u>Resistance to soldering heat</u> <i>IEC115-1 clause 4.12 (260[°C], 10[s])</i> | ± [%] | ± 0,2 |
| <u>Solderability</u> <i>IEC 60068-2-20 (245±3[°C] 3±0,3[s])</i> | [s] | Solder bath method (> 95% coverage) |
| <u>Marking</u> <i>IEC60062</i> | | Color code |

DIMENSIONS [mm]



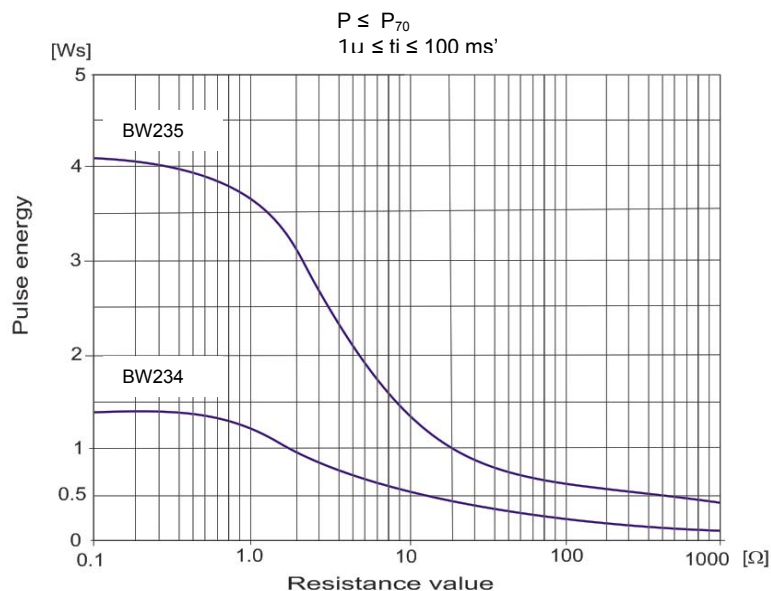
| Type | L | $\varnothing D$ | $\varnothing d$ |
|---------|------|-----------------|-----------------|
| BW234-0 | 9,9 | 3,6 | 0,8 |
| BW235-0 | 14,3 | 5,7 | 1,0 * |

* Special lead diameter 0,8mm available, type BW 235-006

ELECTRICAL PERFORMANCE

| Temperature coefficient [ppm K ⁻¹] | | | |
|--|-------------|---------------|-------------|
| BWF237 | | BWF236 | |
| TC ± 600 | 0R1...0R15 | TC ± 1000 | 0R1...0R16 |
| TC ± 300 | 0R16...0R62 | TC ± 800 | 0R18...0R68 |
| TC ± 150 | 0R68...1K2 | TC ± 400 | 0R75...2K4 |

PULSE RATING

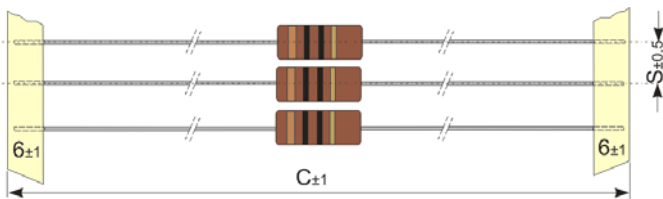


The curves are expressing the range, where no substantial effects are caused of recurrent pulses.

A single pulse with a 3 – 5 times higher value will cause the destruction of the resistor!

PACKAGING

The standard packaging for BW in axial type is taped, dimensions below.



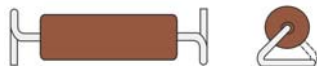
| Type | Packaging | Pieces | Pack. Code | C | S |
|-------|-------------------|--------|------------|----|----|
| BW234 | Taped Ammopack | 1000 | T | 85 | 5 |
| BW235 | | 1000 | | 85 | 10 |

ALTERNATIVE LEAD CONFIGURATIONS

This type BW is also available in a different pre-forming, as shown below, other's upon request.

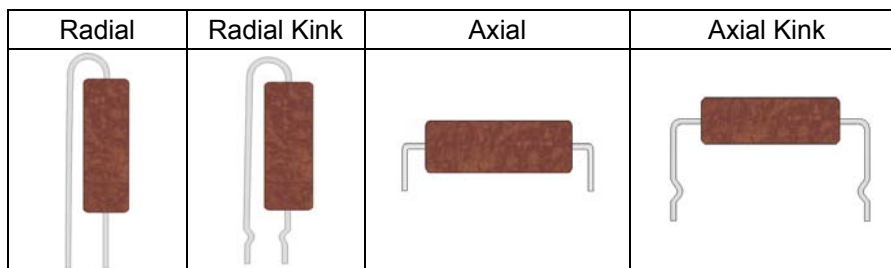
SMD VERSION

Z – form



Please check the details here <http://www.vitrohm.com>

THROUGH HOLE VERSION



*For horizontal and vertical pre-forming please consult your local sales contact.

ORDERING EXAMPLE

| | | | |
|----------------|-----------|-----------|-------------|
| BW234-0 | 5 | T | 100R |
| Type | Tolerance | Pack-Code | R-Value |

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[H424K3BDA](#) [H442K2BDA](#) [H45K62BZA](#) [H4634RBZA](#) [H473R2BZA](#) [H4931KBZA](#) [H8160KFDA](#) [H8274KBZA](#) [H82K0FDA](#) [H82K0FZA](#)
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