

Insulated wirewound Resistors

Axial, Fiberglass core

Bakelite Moulded case



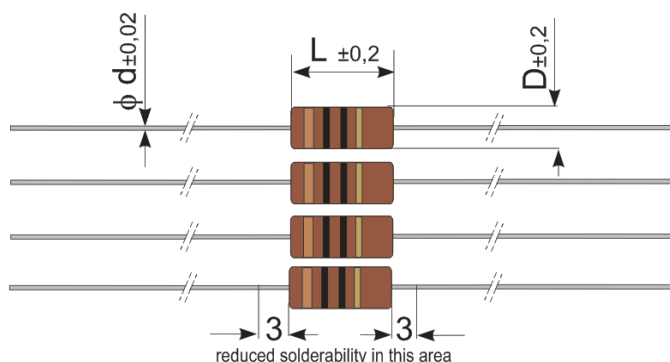
ELECTRICAL SPECIFICATIONS

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

PERFORMANCE DATA

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

DIMENSIONS [mm]



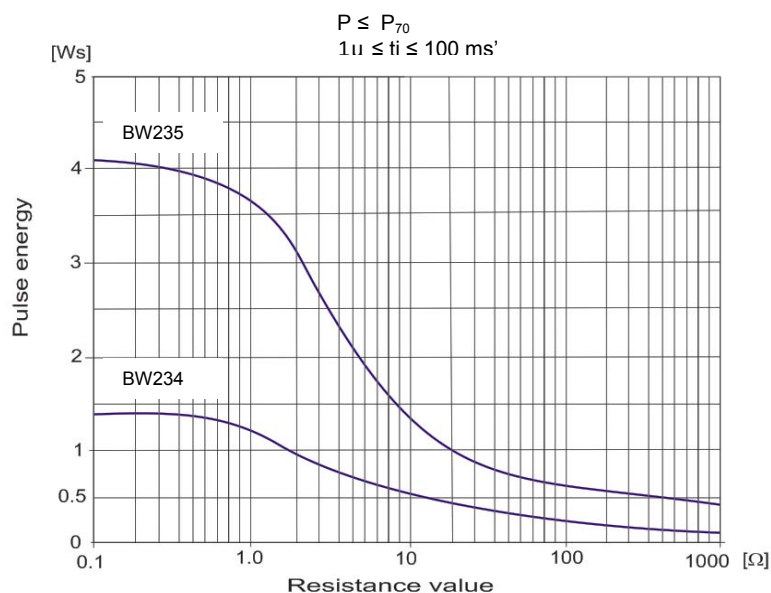
Type	L	$\varnothing D$	$\varnothing d$
BW234-0	9,9	3,6	0,8
BW235-0	14,3	5,7	1,0 *

* 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

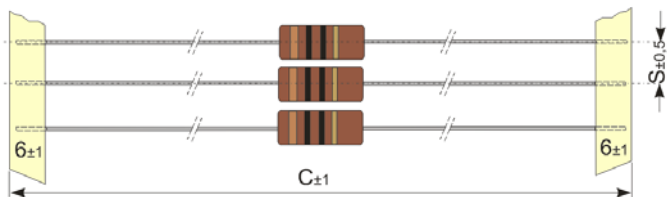


The curves are expressing the range, where no substantial effects are caused of recurrent pulses.

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.



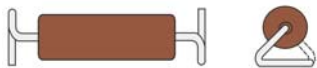
Type	Packaging	Pieces	Pack. Code	C	S
BW234	Taped Ammopack	1000	T	85	5
BW235		1000		85	10

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

Radial	Radial Kink	Axial	Axial Kink

*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