Insulated wirewound Resistors
Axial, Fiberglass core
Bakelite Moulded case

RoHS compliant

ELECTRICAL SPECIFICATIONS

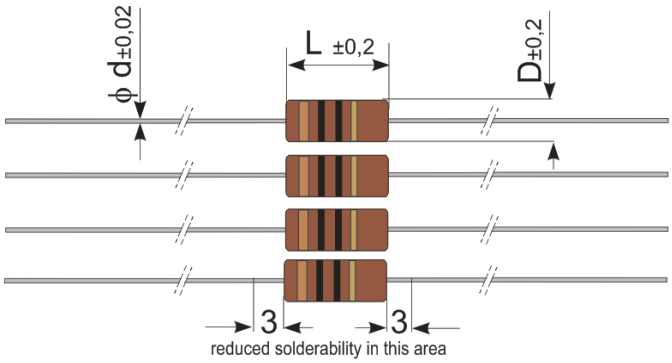
Type			BW234-0	BW235-0
Nominal Power rating	P_{25}	[W]	1,1	2,1
	P_{70}		0,75	1,5
Resistance range		[Ω]	0R1 … 1K2	0R1 … 2K4
E-Series			E24 (5[%]) ; E12 (10[%])	
Tolerances		± [%]	5 (J) ; 10 (K)	
Temperature coefficient		[10^{-6}*K^{-1}]	*Depends on the value, please check the table below	
Temperature 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

		BW234-0 / BW235-0
Derating linear	[°C]	70…175 (0W)
Climatic category		55/175/56
Failure Rate *(Total, ϑ_0, 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 *IEC115-1clause 4.24* *(40[°C], 93[% r.h.], 56[d])*	± [%]	2,0
Climatic sequence *IEC115-1 clause4.23*	± [%]	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

VITROHM PORTUGUESA, Lda. – Est. Nacional 249-4, Trajouce – 2765-653 S. Domingos de Rana – PORTUGAL
Tel:+ 351 214 457 700 - Fax:+ 351 214 457 755 – Germany Sales Tel:+ 49 4121 870 103 - e-mail: vitrohm.support@yageo.com – www.vitrohm.com

DIMENSIONS [mm]



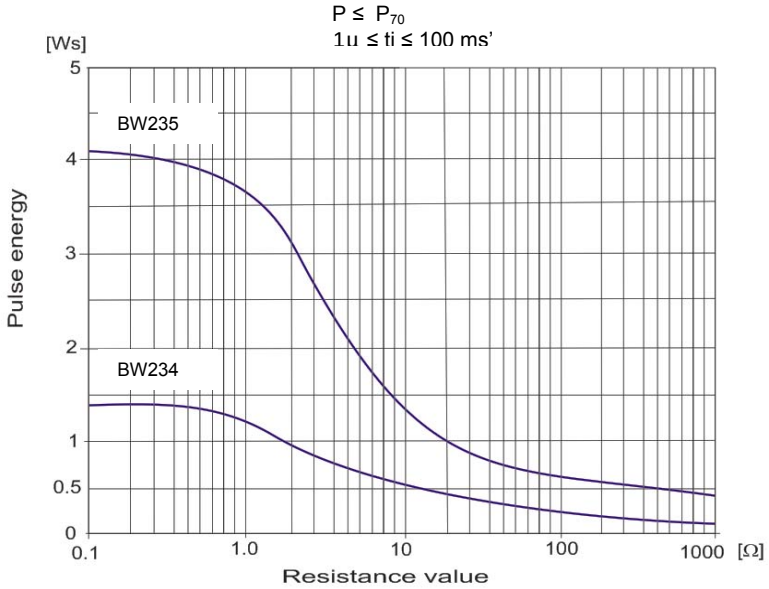
Type	L	Ø D	Ø d
BW234-0	9,9	3,6	0,8
BW235-0	14,3	5,7	1,0 *

* 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!

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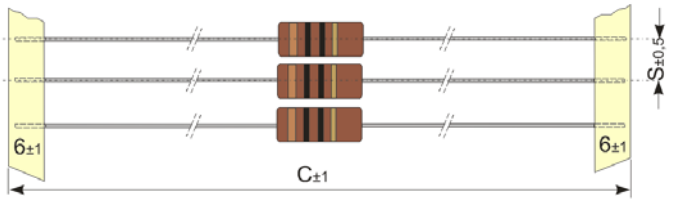
PACKAGING

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*

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75822-2K4 90J56R AC03000001208JAC00 EP3WS47RJ C1010KJL C1015RJL C3A10KJT 27J1K0 ES3W47RJ AC04000001500JAC00 AC10000002208JAB00 AC10000004708JAB00 SQMW5R39J SQPW5R22J SQPW5R33J 1879927-3 FCB2100RJ T505 FSQ5WR47J FW10A33R0JA CPCC03R5000JB31 CPCC0510R00JE32 CPCC051R000JB31 CPCP10500R0JE32 CPW05700R0JE143 CPW152K500JE313 C1010RJL C10R47JL C141K0JL C144R7JL ES05W100RJ SQMW1047RJ SQMW210RJ CPCC03R2000JB31 CPCC0515R00JE01 CPW055R000JB143 CPW103K300JE143 CPW202R000JB14 ULW5-39R0JT075 W31-R47JA1 ULW5-68RJT075 SQBW401K0JFASTON SPH1001JLF 65888-3R3 CPCC10R5100JE66 SQP500JB-400R SQBW403R3JFASTON 280-PRM7-4.7-RC CW02B9R100JE73 CPCP05R1000JE32