Insulated Wirewound Resistors, moulded

RoHS compliant

Specifications

Type		BW234-0	BW235-0
Style		0411	0614
Power rating P_{70}	W	0,75 (P_{50} = 1,0)	1,5 (P_{25} = 2,0)
Resistance range	Ω	0R1 ... 1K2	0R1 ... 2K4
E-Series		E 24, E 12	
Tolerances	%	± 5, ± 10	
Temperature coefficient	$10^{-6} * K^{-1}$	see table next page	
max. cont. work. voltage	V_{RMS}	$\sqrt{P_{70} \cdot R}$	
Insulation voltage (1min.)	V_{RMS}	700	1000
Insulation resistance	Ω	> 10^4M	
Derating linear	°C	70 ... 175 (0W)	
Climatic category		55/175/56	
Temperature range	°C	- 55 ... 175	
Thermal resistance	KW^{-1}	140	80
Failure rate (Total, ϑ_o max., 60% conf. lev.)	$10^{-9} * h^{-1}$	appr. 100, depends on value	
Endurance (P_{70}, 1000h)	$[\frac{\Delta R}{R}]$ %	± 5,0 average	
Damp heat, steady state (40°C, 93% r.h., 56d)	$[\frac{\Delta R}{R}]$ %	± 2,0	
Climatic sequence	$[\frac{\Delta R}{R}]$ %	± 2,0	
Terminal strength	$[\frac{\Delta R}{R}]$ %	± 1	
Terminal tensile strength	N	40	
Resistance to soldering heat (260°C, 10s)	$[\frac{\Delta R}{R}]$ %	± 0,2 typ.	
Solderability	s	2,5 Flowtime, solderglobule test, IEC 60068-2-20-T	
Marking		DIN-IEC-colour code, 4 bands	

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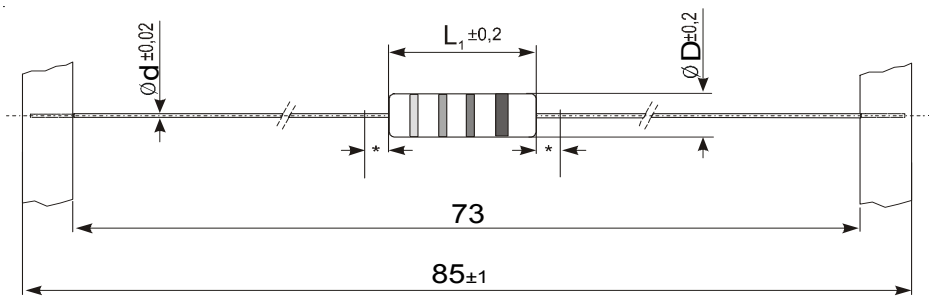
Dimensions in mm:



* 3mm, reduced solderability in this area.

Temperature coefficient

Typ	resistance Value	TC * $10^{-6}K^{-1}$
BW234-0	0R1 ... 0R15	± 600
	0R16 ... 0R62	± 300
	0R68 ... 1K2	± 150
BW235-0	0R1 ... 0R16	± 1000
	0R18 ... 0R68	± 800
	0R75 ... 2K4	± 400

Type	L ± 0,2	ØD ± 0,2	Ød ± 0,02	Tape step
BW234-0	9,9	3,6	0,8	5
BW235-0	14,3	5,7	1,0*	10

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

Packaging:

Type	Packaging	Pieces	Pack.Code
BW234-0	taped/Ammopack	1000	T
BW235-0	taped/Ammopack	1000	T

Ordering example:

BW 234-0	5	T	1K
Type	Tolerance	Pack.-Code	R-Value

Revision 200807

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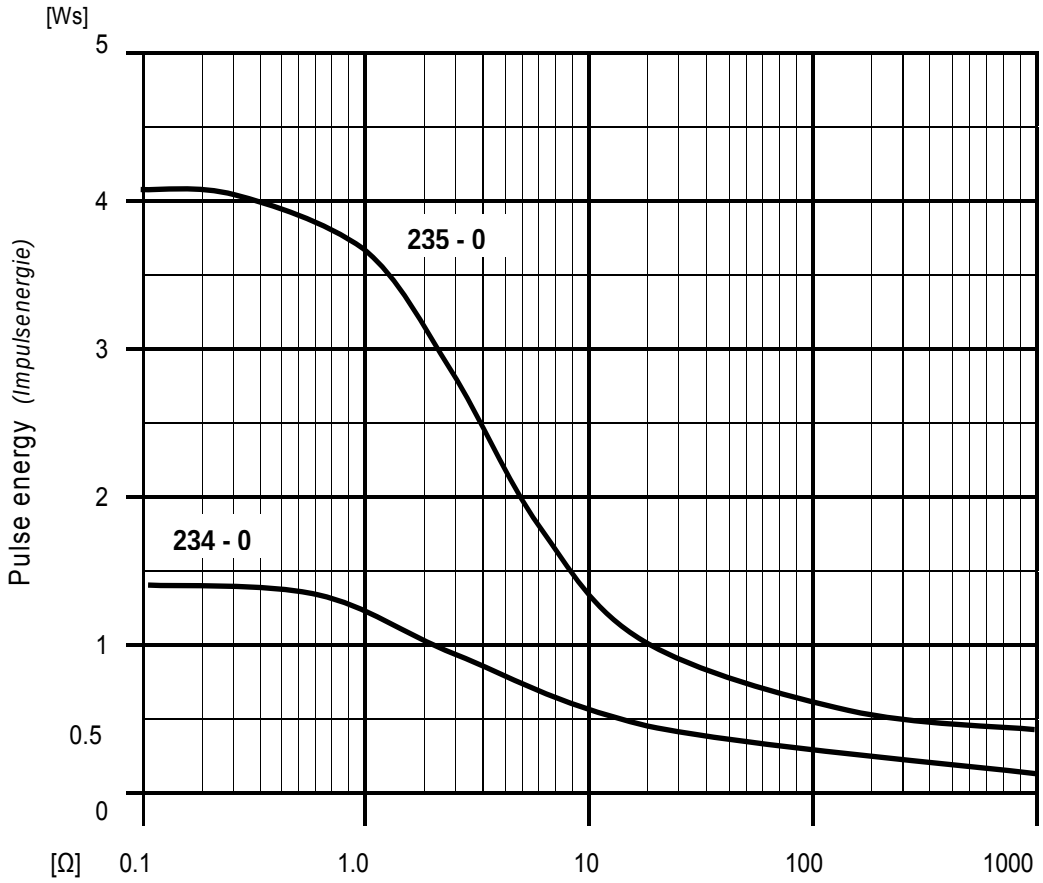
$$\bar{P} \leq P_{70}$$

$$1\mu \leq ti \leq 100\ ms'$$



The curves are expressing the range, where no substantial effects are caused of recurrent pulses.
(Die Kurven geben den Bereich an, in dem wiederholte impulse keine merklichen Effekte am Widerstand hervorrufen.)

A single pulse with a 3 – 5 times higher value will cause the destruction of the resistor!
(Ein Einzelimpuls mit 3 – 5 fachem Wert führt zur Zerstörung des Widerstandes!)

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