

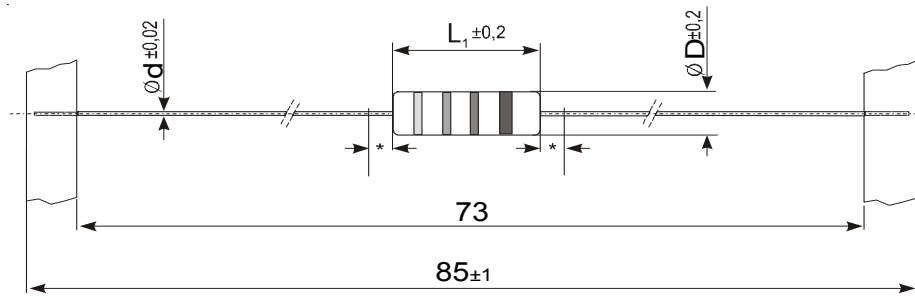
## Insulated Wirewound Resistors, moulded



## 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	$\Omega$	0R1 ... 1K2	0R1 ... 2K4
E-Series		E 24, E 12	
Tolerances	%	$\pm 5, \pm 10$	
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	$\Omega$	$> 10^4 M$	
Derating linear	$^{\circ}C$	70 ... 175 (0W)	
Climatic category		55/175/56	
Temperature range	$^{\circ}C$	- 55 ... 175	
Thermal resistance	$KW^{-1}$	140	80
Failure rate (Total, $\vartheta_0$ max., 60% conf. lev.)	$10^{-9} * h^{-1}$	appr. 100, depends on value	
Endurance ( $P_{70}$ , 1000h)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 5,0$ average	
Damp heat, steady state (40 $^{\circ}C$ , 93% r.h., 56d)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 2,0$	
Climatic sequence	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 2,0$	
Terminal strength	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 1$	
Terminal tensile strength	N	40	
Resistance to soldering heat (260 $^{\circ}C$ , 10s)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 0,2$ typ.	
Solderability	s	2,5 Flowtime, solderglobule test, IEC 60068-2-20-T	
Marking		DIN-IEC-colour code, 4 bands	

Dimensions in mm:



\* 3mm, reduced solderability in this area.

Temperature coefficient

Typ	resistance Value	TC * 10 <sup>-6</sup> K <sup>-1</sup>
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

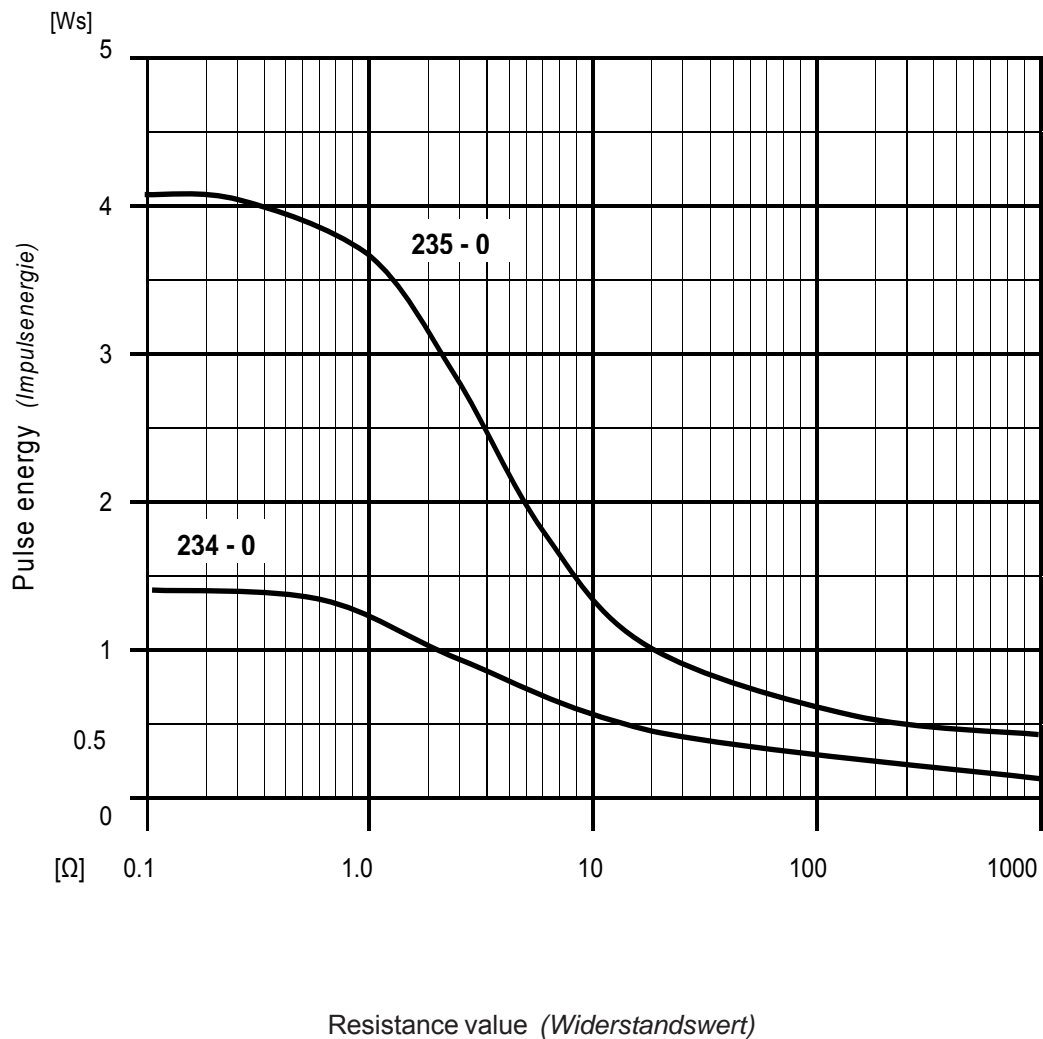
Packaging:

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

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

$$1\mu \leq t_i \leq 100 \text{ ms}'$$



The curves are expressing the range, where no substantial effects are caused by 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!)