

Insulated Wirewound Resistors, moulded
flame retardant, failsafe

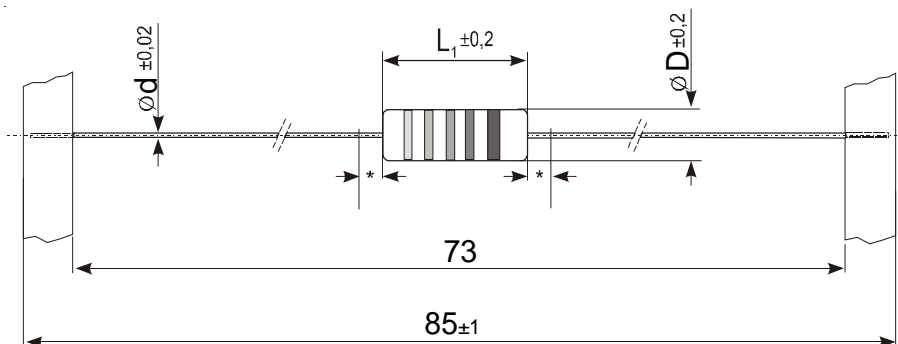


Specifications

Type		BWF237-0	BWF236-0
Style		0411	0614
Power rating P_{70}	W	0,75 ($P_{50} = 1,0$)	1,5 ($P_{25} = 2,0$)
Resistance range	Ω	0R1 ... 1K	0R1 ... 1K
E-Series		E 24, E 12	
Tolerances	%	$\pm 5, \pm 10$	
Temperature coefficient	$10^{-6} \cdot K^{-1}$	- 400 ... + 1000, 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	$> 10^4 M$	
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, ϑ_0 max., 60% conf. lev.)	$10^{-9} \cdot h^{-1}$	appr. 100, depends on value	
Endurance (P_{70} , 1000h)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 5,0$ average	$\pm 10,0$ 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	$\left[\frac{\Delta R}{R}\right] \%$	± 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, 5 bands (5th band (blue) for failsafe version)	

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Dimensions in mm:



3mm, reduced solderability in this area.

Temperature coefficient

Typ	resistance Value	TC * 10 ⁻⁶ K ⁻¹
BWF237-0	0R1	± 1000
	0R11 ... 0R18	± 600
	0R2 ... 0R68	± 300
	0R75 ... 1K	± 150
BWF236-0	0R1	± 1800
	0R11 ... 0R16	± 1000
	0R18 ... 0R68	± 800
	0R75 ... 1K	± 400

Type	L ± 0,2	ØD ± 0,2	Ød ± 0,02	Tape step
BWF237-0	9,9	3,6	0,8	5
BWF236-0	14,3	5,7	1,0*	10

*Special lead diameter 0,8 mm available, type BWF 236-006

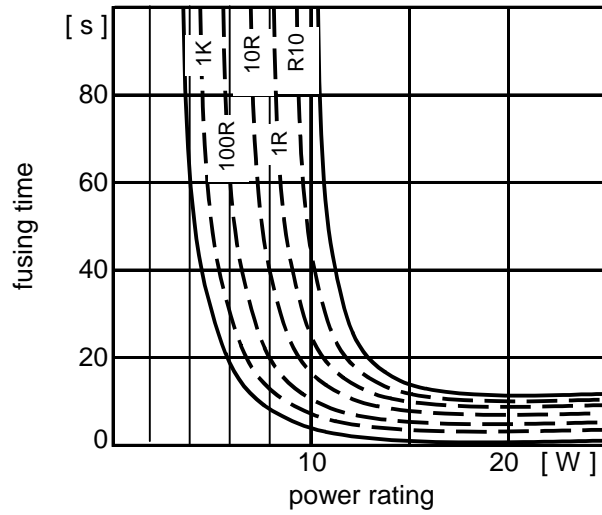
Packaging:

Type	Packaging	Pieces	Pack.Code
BWF236-0	taped/Ammopack	1000	T
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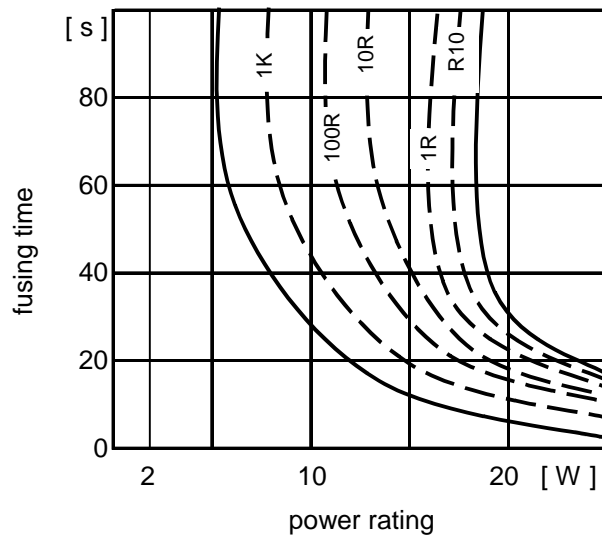
Ordering example: BWF 237-0 5 T 1K
 Type Tolerance Pack.-Code R-Value

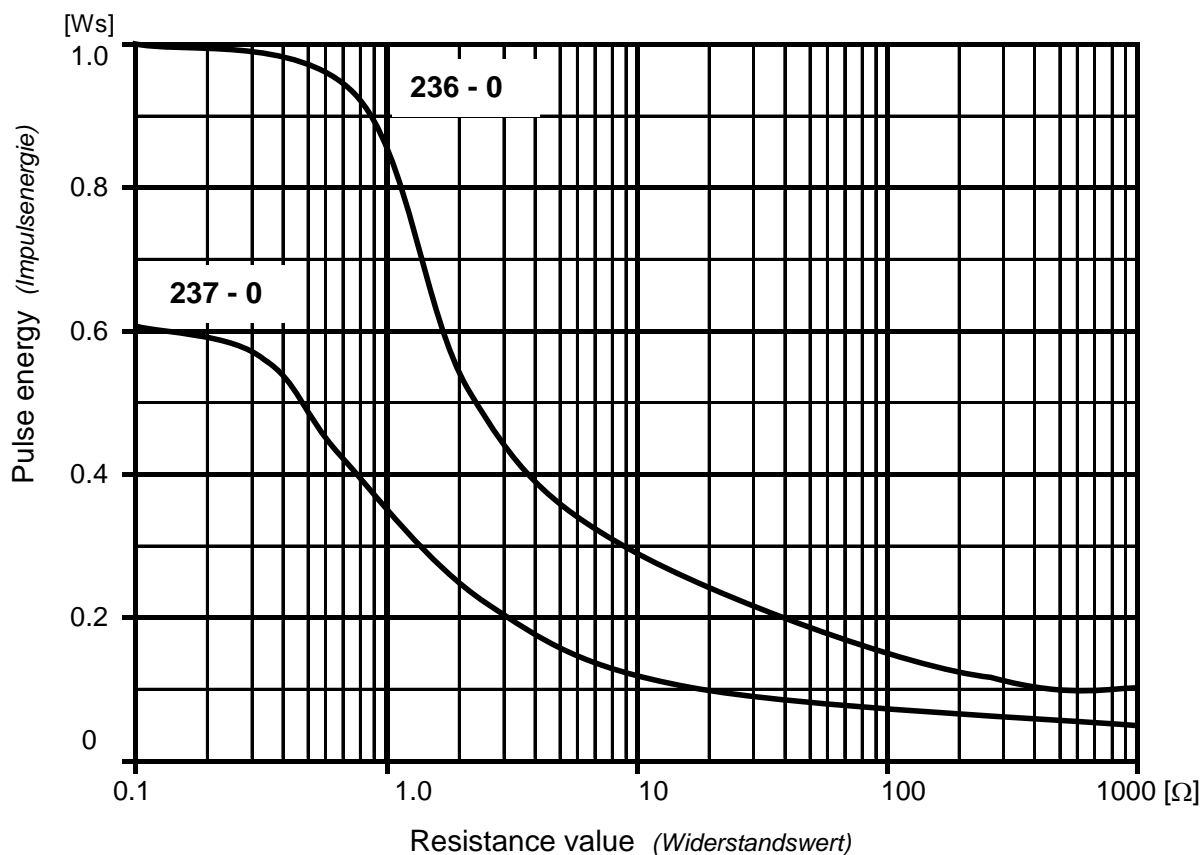
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The curves are expressing the range, where no substantial effects are caused of recurrent pulses.

(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!)