

Insulated Flame retardant wirewound Resistors

Axial, Fiberglass core, Fail safe

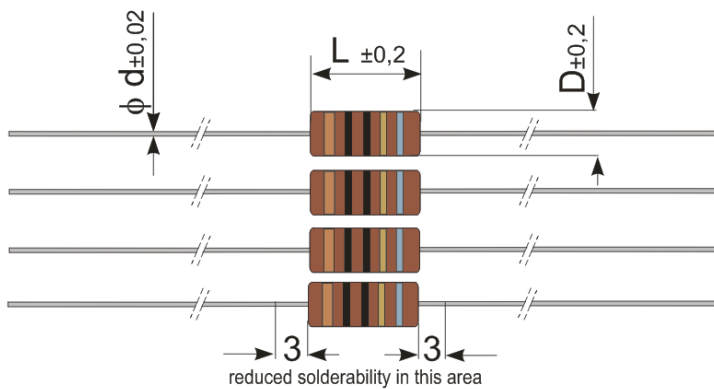
Bakelite Moulded case



ELECTRICAL SPECIFICATIONS			BWF237-0	BWF236-0
Type				
Nominal Power rating	P ₂₅ P ₇₀	[W]	1,1 0,75	2,1 1,5
Resistance range		[Ω]	0R1 ... 1K	0R1 ... 1K
E-Series			E24 (5[%]) ; E12 (10[%])	
Tolerances		± [%]	5, 10	
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		[V]	700	1000
Insulation resistance		[MΩ]	> 10 ⁴	
Max. working voltage		[V] _{RMS}	$\sqrt{P_{70} * R}$	

PERFORMANCE DATA			BWF237-0	BWF236-0
Derating linear		[°C]	70...175 (0W)	
Climatic category			55/175/56	
Failure Rate	(Total, ρ, 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	10,0
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 (5 th band (blue) for failsafe version)	

DIMENSIONS [mm]



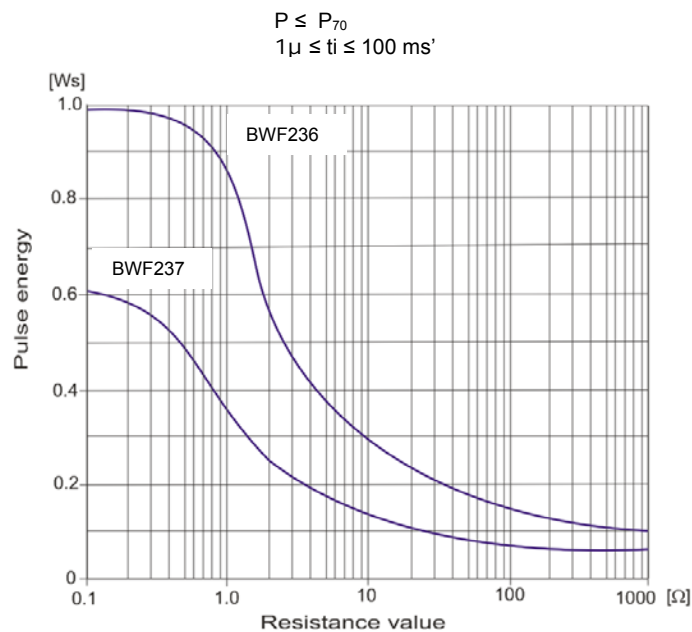
Type	L	$\varnothing D$	$\varnothing d$
BWF237-0	9,9	3,6	0,8
BWF236-0	14,3	5,7	1,0 *

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

ELECTRICAL PERFORMANCE

Temperature coefficient [ppm K ⁻¹]			
BWF237		BWF236	
TC ± 1000	0R1	TC ± 1800	0R1
TC ± 600	0R11...0R18	TC ± 1000	0R11...0R16
TC ± 300	0R2...0R68	TC ± 800	0R18...0R68
TC ± 150	0R75...1K	TC ± 400	0R75...1K

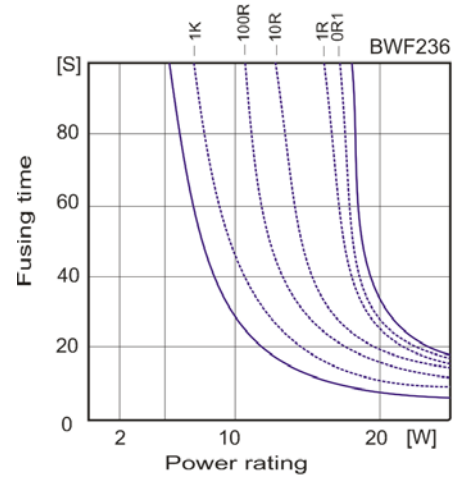
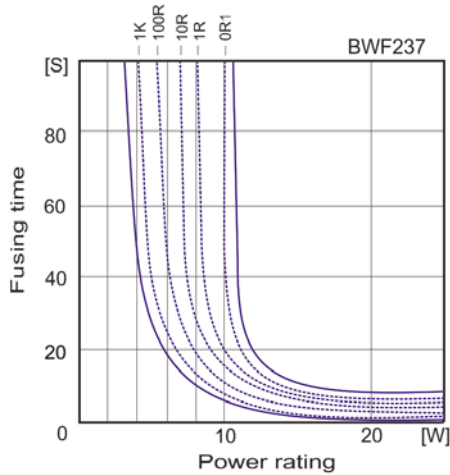
PULSE RATING



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

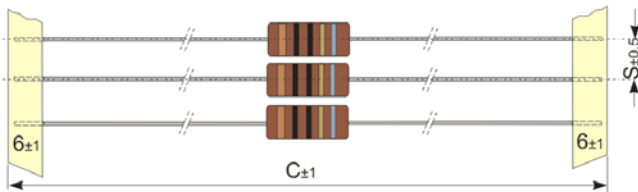
A single pulse with a 3 – 5 times higher value will cause the destruction of the resistor!

FUSING TIME



PACKAGING

The standard packaging for BWF in axial type is taped, dimensions below.



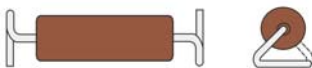
Type	Packaging	Pieces	Pack. Code	C	S
BWF237	Taped	1000	T	85	5
BWF236	Ammopack	1000		85	10

ALTERNATIVE LEAD CONFIGURATIONS

This type BWF is also available in a different pre-forming, as shown below, other's upon request.

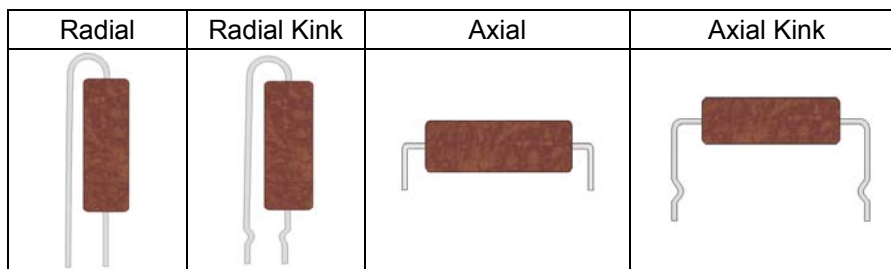
SMD VERSION

Z – form



Please check the details here <http://www.vitrohm.com>

THROUGH HOLE VERSION



*For horizontal and vertical pre-forming please consult your local sales contact.

ORDERING EXAMPLE

BWF237-0	5	T	100R
Type	Tolerance	Pack-Code	R-Value