

SMD

Insulated Flame retardant wirewound Resistors

Fiber glass core, Fail safe

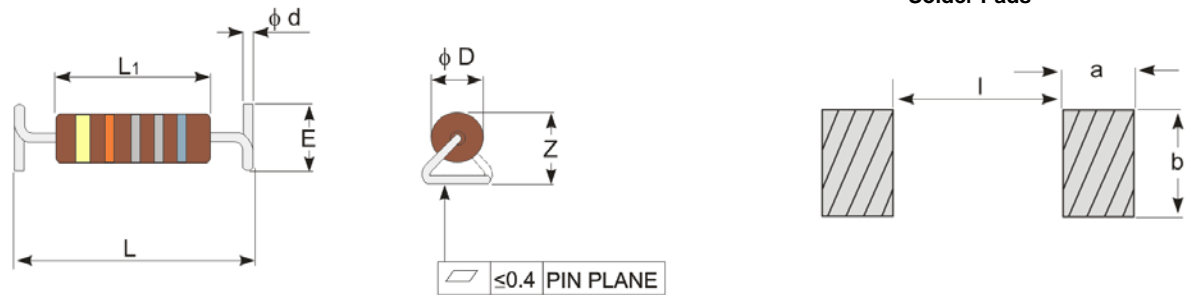
Bakelite Moulded case



ELECTRICAL SPECIFICATIONS		RZF7	RZF6
Type			
Nominal Power rating	P ₂₅ P ₇₀	1,1 0,75	2,1 1,5
Resistance range		0R1 ... 1K	0R1 ... 1K
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 <i>IEC115-1 clause 4.7 (1[min])</i>	[V] _{RMS}	700	1000
Insulation resistance <i>IEC115-1 clause 4.6</i>	[MΩ]	> 10 ⁴	
Max. working voltage	[V] _{RMS}	$\sqrt{P_{70} * R}$	

PERFORMANCE DATA		
Derating linear	[°C]	70...175 (0W)
Climatic category		55/175/56
Failure Rate <i>(Total, ρ₀, max, 60% cont. lev.)</i>	[10 ⁻⁹ h ⁻¹]	appr. 100 depends on value
Endurance <i>IEC60115-1 clause 4.25 (P₇₀, @ 70[°C], 1000[h])</i>	± [%]	5,0
Damp heat, steady state <i>IEC115-1 clause 4.24 (40[°C], 93[% r.h.], 56[d])</i>	± [%]	5,0
Climatic sequence <i>IEC115-1 clause 4.23</i>	± [%]	2,0
Terminal Tensile Strength	[N]	40
Resistance to soldering heat <i>IEC115-1 clause 4.12 (260[°C], 10[s])</i>	± [%]	0,2
Solderability <i>IEC 60068-2-20 (245^{±3}[°C] 3^{±0,3}[s])</i>		Solder bath method (> 95% coverage)
Marking <i>IEC60062</i>		Color code (5 th band (blue) for failsafe version)

DIMENSIONS [mm]



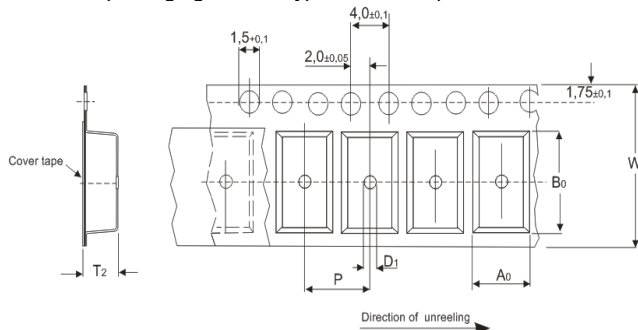
Type	Size	L	L ₁	Ø D	Ø d ±0,02	E	Z max	l	a	b
RZF6	8424	20,9 ^{±1,0}	14,3 ^{±0,2}	5,7 ^{±0,2}	1,0	5,0 ^{±0,5}	8,0	16	10	10
RZF7	6720	17 ^{±1,0}	9,9 ^{±0,2}	3,6 ^{±0,2}	0,8		7,5	14		

ELECTRICAL PERFORMANCE

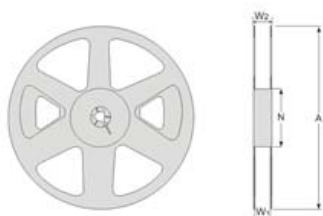
Temperature coefficient [ppm K ⁻¹]			
RZF6		RZF7	
TC ±1800	0R1	TC ±1000	0R1
TC ±1000	0R11...0R16	TC ±600	0R11...0R18
TC ±800	0R18...0R68	TC ±300	0R2...0R68
TC ±400	0R75...1K	TC ±150	0R75...1K

PACKAGING

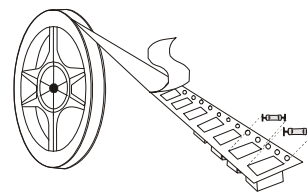
The standard packaging for RZF type is blister tape, as showed below



Size	6720	8424
A0	5,7	6,0
B0	16,7	21,4
W	24	32
D1	2,0	2,0
P	8	12
T2	7,6	8,1



Size	W ₁	W ₂	N	A
6720	25,4	29,5	90	330
8424	33,4	37,4	100	380



Size	Packaging	Pieces
6720	13 [inch] Blister tape	1000
8424	15 [inch] Blister tape	

ORDERING EXAMPLE

RZF7	6720	J	K	-	13	100R
Type	Size	Tolerance	Blister tape reel	TC	Reel diameter	R-Value