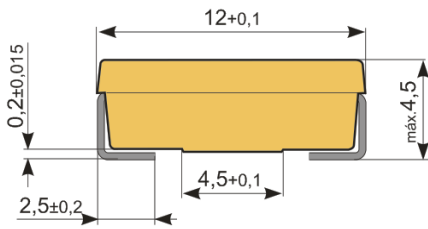


SMD
Power Failsafe Wirewound Resistors,
Flame retardant, Fiberglass core
Silicone Encapsulation

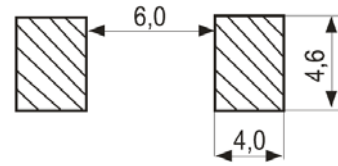


ELECTRICAL SPECIFICATIONS		
Type		RWF
<u>Style</u>		5020
<u>Nominal Power rating</u>	P ₂₅ P ₇₀	2,2 1,6
<u>Resistance range</u>	[Ω]	0R1 ... 1K
<u>E-Series</u>		E24 (5[%]), E12 (10[%])
<u>Tolerances</u>	± [%]	5 (J) ; 10 (K)
<u>Temperature coefficient</u>	[10 ⁻⁶ *K ⁻¹]	1000
<u>Temperature range</u>	[°C]	-55 ... +200
<u>Thermal resistance</u>	[KW ⁻¹]	100
<u>Dielectric withstanding voltage</u> <i>IEC115-1 clause 4.7 (1[<i>min</i>])</i>	[V] _{RMS}	1000
<u>Max. working voltage</u>	[V] _{RMS}	$\sqrt{P_{70} * R}$
<u>Insulation resistance</u> <i>IEC115-1 clause 4.6</i>	[MΩ]	>1000
PERFORMANCE DATA		
<u>Derating linear</u>		Linear 70...200 (0[W])
<u>Climatic category</u>		55/200/56
<u>Endurance</u> <i>IEC60115-1 clause 4.25</i> (P ₇₀ , @ 70[°C], 1000[h])	± [%]	3
<u>Damp heat, steady state</u> <i>IEC115-1 clause 4.24</i> (40[°C], 93% r.h., 56[d])	± [%]	<2
<u>Climatic sequence</u> <i>IEC115-1 clause 4.23</i>	± [%]	1,0
<u>Short Time Overload</u> <i>IEC60115-1 clause 4.13</i> ($U = \sqrt{5 \times P_{70} \times R}$, 5[s])	± [%]	1,0
<u>Temperature shock</u> <i>IEC115-1 clause 4.19</i>	± [%]	0,25
<u>Resistance to soldering heat</u> <i>IEC115-1 clause 4.12</i> (260[°C], 3,5[s])	± [%]	0,25
<u>Board-bending test</u>		No interruption
<u>Solderability</u> <i>IEC 60068-2-20</i> (245 ^{±3} [°C] 3 ^{±0,3} [s])		Solder bath method (> 95% coverage)
<u>Marking</u> <i>IEC60062</i>		Printed in clear (type – value- tolerance)

DIMENSIONS [mm]



Recommended solder Pads:

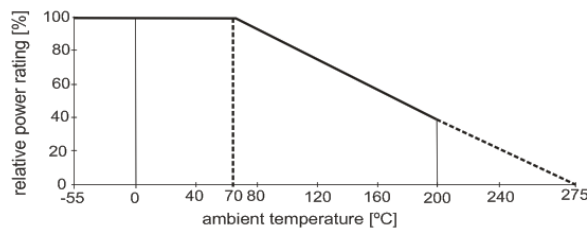


TEMPERATURE COEFFICIENT

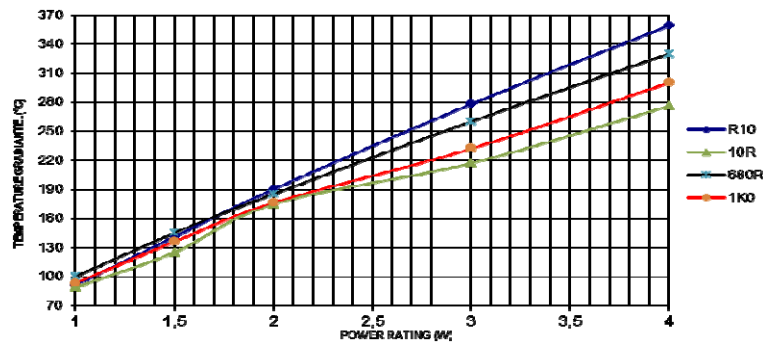
Type	Temperature Coefficient [ppm K-1]			
	TC ±1000	TC ±600	TC ±300	TC ±150
RWF	0R1	0R11 ...0R18	0R2...0R68	0R75...1K

PERFORMANCE GRAPH'S

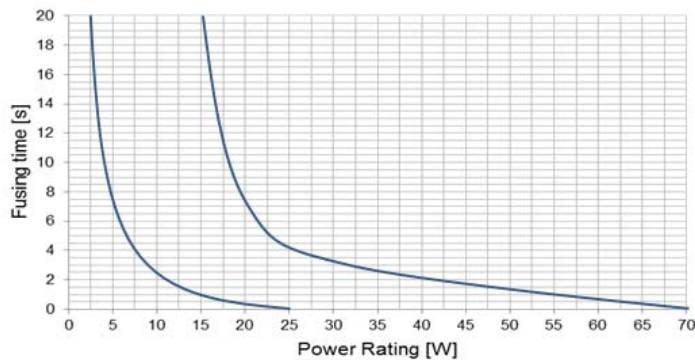
Derating



Temperature rise

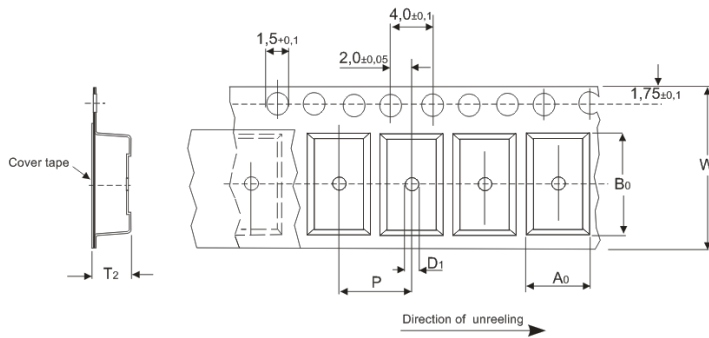


FUSING CHARACTERISTIC

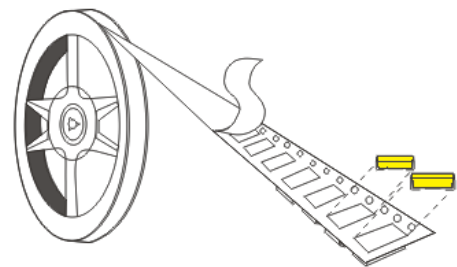
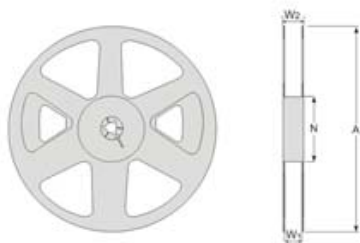


PACKAGING

The standard packaging for RWF, dimensions below.



Dimensions [mm]	
A0	5,4
B0	12,4
W	24
D1	1,5
P	8
T2	5



Type	W ₁	W ₂	N	A
RWF	25,4	29,5	90	330

Type	Packaging	Pieces
RWF	13 [inch] Blister tape	1500

ORDERING EXAMPLE

RWF	5020	J	K	-	13	10R	
Type	Size	Tolerance		Blister tape reel	TC	Reel diameter	R-Value
		J	5 [%]				
		k	10 [%]				