



RWF Series Datasheet

SMD | Power Failsafe Wirewound Resistors | Fiberglass core
Flame Retardant | Silicone Encapsulation

ORDERING CODE - Example

New SAP Part Nr.:

RWF	502	J	K	-	13-	100R	AA
Serie	Size	Tol.	Pack-Code	TCR	Package type	R Value	Special
	502 = 5020	J = ±5% K = ±10%	K = Blister Tape	- Base on spec.	13- = 13 inch (Reel diameter)		AA = Standard

Historical VTM Part Nr.:

RWF	5020	J	K	-	13	100R
Type	Size	Tol.	K = Blister tape reel	TC	Reel diam.	R Value

APPLICATIONS

- Computer & Peripherals
- Industrial
- Power & Energy
- Consumer & Electronics

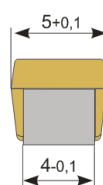
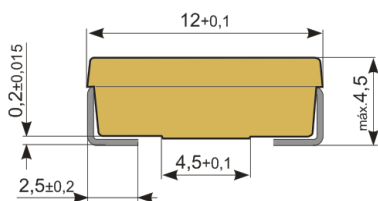
FEATURES

- Suitable for automatic pick and place
- All welded construction
- Fusing resistor, best in class
- Small package size
- Molded encapsulation
- RoHs & REACH Compliant

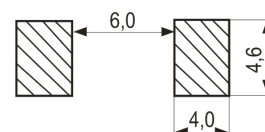
ELECTRICAL SPECIFICATIONS

Type			RWF502
Historical Part Number			RWF5020
Nominal Power Rating	P ₂₅	[W]	2,2
	P ₇₀		1,6
Resistance Range		[Ω]	OR1 ... 1K (Other values upon request)
E-Series (preferred)			E24 (Other upon request)
Tolerances		±[%]	J = 5% ; K = 10%
Temperature Coefficient		±[10 ⁻⁶ K ⁻¹]	Please check Temperature coefficient table in page 2
Working Temperature Range		[°C]	-55 ... +200
Thermal Resistance		[KW ⁻¹]	100
Max. Working Voltage		[V] _{RMS}	$\sqrt{P_{70} \times R}$
Dielectric Withstanding Voltage IEC115-1 clause 4.7 (1[min])		[V] _{RMS}	1000
Insulation Resistance IEC115-1 clause 4.6		[MΩ]	>1000

DIMENSIONS [mm]



SOLDER PAD



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PERFORMANCE DATA

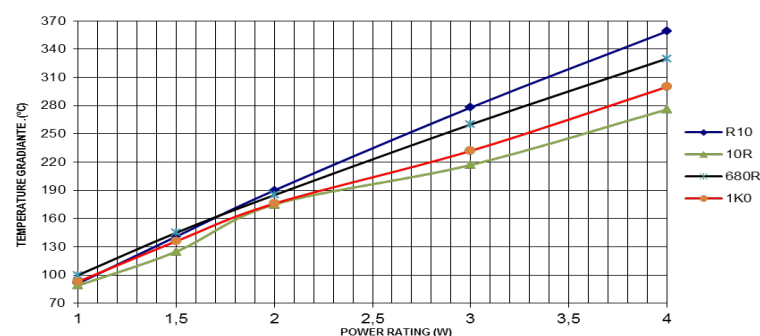
Type		RWF502
Historical Part Number		RWF5020
Derating Linear	[°C]	70...200 (0W)
Climatic Category		55/200/56
Endurance <i>IEC60115-1 clause 4.25</i> <i>(P₇₀ @ 70[°C], 1000[h])</i>	±[%]	3,0
Damp Heat, Steady State <i>IEC60115-1 clause 4.24</i> <i>(40[°C], 93[% r.h.], 56[d])</i>	±[%]	< 2,0
Climatic Sequence <i>IEC60115-1 clause 4.23</i>	±[%]	1,0
Resistance to Soldering Heat <i>IEC60115-1 clause 4.18</i> <i>(260^{±5}[°C], 3,5^{±1}[s])</i>	±[%]	0,25
Short Time Overload <i>IEC60115-1 clause 4.13</i>	±[%]	1,0
Temperature Shock <i>IEC60115-1 clause 4.19</i>	±[%]	0,25
Board-bending Test		No interruption
Solderability <i>IEC60068-2-20</i> <i>(245^{±5}[°C] 3^{±0,5}[s])</i>		Solder bath method (> 95% coverage)
Marking <i>IEC60062</i>		Printed in clear (Type – Value – Tolerance)

TEMPERATURE COEFFICIENT

New P/Nr. Type	Historical P/Nr:	Temperature Coefficient (ppm K-1)			
		TC ±1000	TC ±600	TC ±300	TC ±150
RWF502	RWF5020	OR1	OR11 ... OR18	OR2 ... OR68	OR75 ... 1K

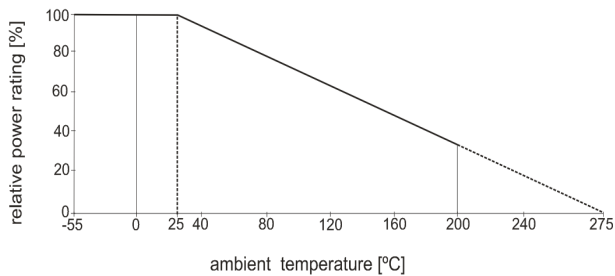
PERFORMANCE GRAPHS

Temperature Rise

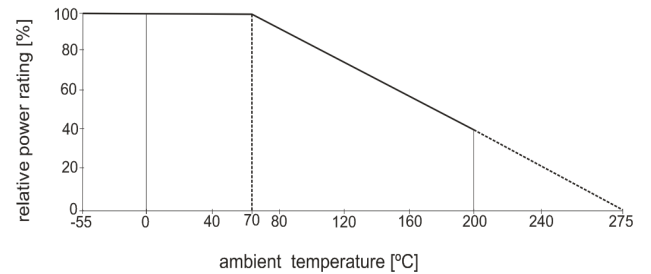


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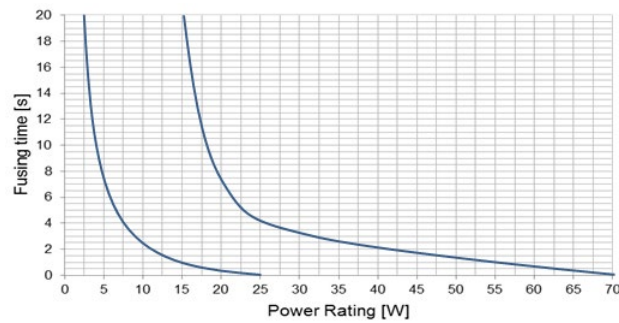
Derating – P₂₅



Derating – P₇₀

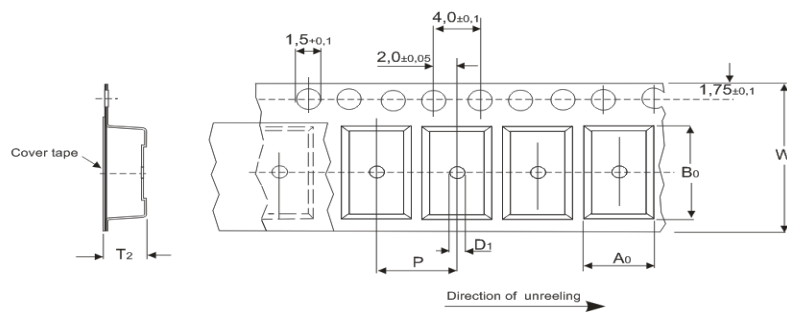


FUSE CHARACTERISTICS

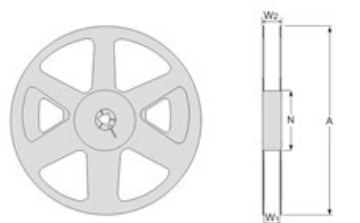


PACKAGING

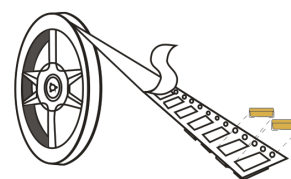
The standard packaging for RWF , dimensions below.



Type	A0	B0	W	D1	P	T2
RWF502	5,4	12,4	24	1,5	8	5



Type	W1	W2	N	A
RWF502	25,4	29,5	90	330



Type	Packaging	Pieces
RWF502	13(inch) Blister tape	1500