

**SMD**  
**Power Wirewound Resistors**  
**Ceramic core**  
**Epoxy encapsulation**



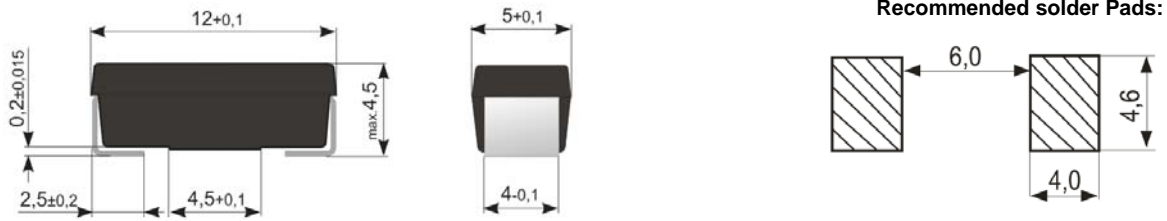
## ELECTRICAL SPECIFICATIONS

Type			RWC
<u>Style</u>			5020
<u>Nominal Power rating</u>	P <sub>25</sub> P <sub>70</sub>	[W]	2,2 1,6
<u>E-Series</u>			E12
<u>Resistance range</u>		[Ω]	0R01 ... 220R (Other values upon request)
<u>Tolerances</u>		± [%]	1 (F) ; 5 (J)
<u>Temperature coefficient</u>		[10 <sup>-6</sup> *K <sup>-1</sup> ]	See table below
<u>Temperature range</u>		[°C]	-55 ... +200
<u>Thermal resistance</u>		[KW <sup>-1</sup> ]	100
<u>Dielectric withstanding voltage</u> <i>IEC115-1 clause 4.7 (1[<i>min</i>])</i>		[V] <sub>RMS</sub>	1000
<u>Max. working voltage</u>		[V] <sub>RMS</sub>	$\sqrt{P_{70} * R}$
<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 <sub>70</sub> , @ 70[°C], 1000[h])		± [%]	1,0
<u>Damp heat, steady state</u> <i>IEC115-1 clause 4.24</i> (40[°C], 93[% r.h.], 56[d])		± [%]	0,25
<u>Climatic sequence</u> <i>IEC115-1 clause 4.23</i>		± [%]	0,25
<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 <sup>±3</sup> [°C] 3 <sup>±0,3</sup> [s])			Solder bath method (> 95% coverage)
<u>Marking</u> <i>IEC60062</i>			Printed in clear (type – value- tolerance)

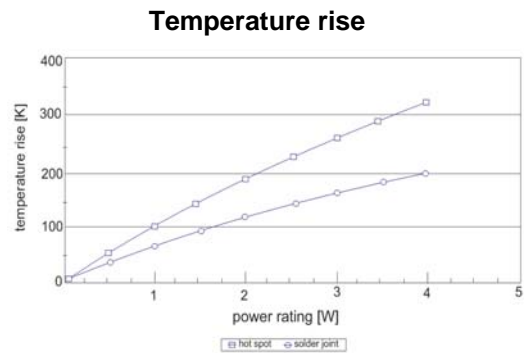
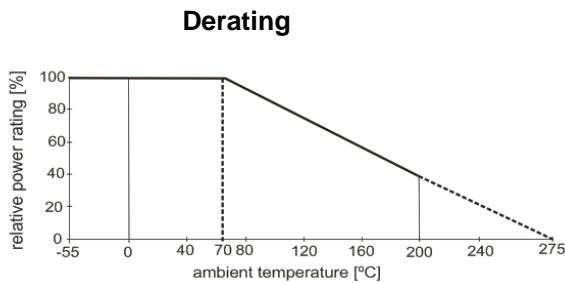
**DIMENSIONS [mm]**



**TEMPERATURE COEFFICIENT**

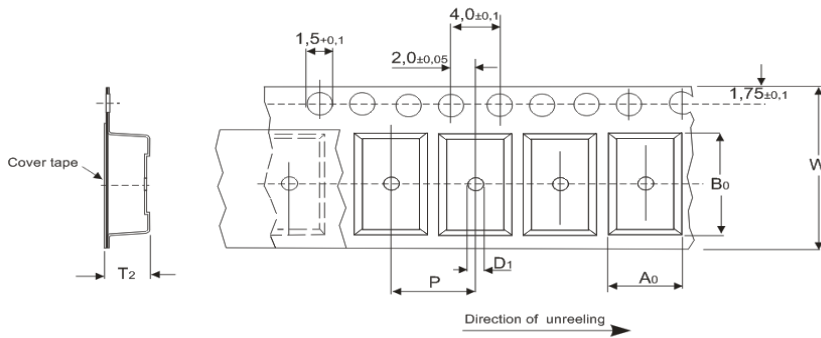
Type	Temperature Coefficient ( -20 [°C] to 120 [°C] )							
	400 <sup>±50</sup> [ppm/K]		appr. +180 [ppm/K]		0 <sup>±20</sup> [ppm/K]		0 <sup>±10</sup> [ppm/K]	
RWC	≥0R01	≤0R024	≥0R027	≤0R091	≥0R1	≤15R	≥16R	≤220R

**PERFORMANCE GRAPH'S**



**PACKAGING**

The standard packaging for RWC, dimensions below.



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

Type	W <sub>1</sub>	W <sub>2</sub>	N	A
RWF	25,4	29,5	90	330

Type	Packaging	Pieces
RWF	13 [inch] Blister tape	1500

**ORDERING EXAMPLE**

RWC	5020	J	K	-	13	100R
Type	Size	Tolerance	Blister tape	TC	Reel diameter	R-Value
		F	1 [%]			
		J	5 [%]			