

SMD
Power Wirewound Resistors
Ceramic core
Epoxy encapsulation



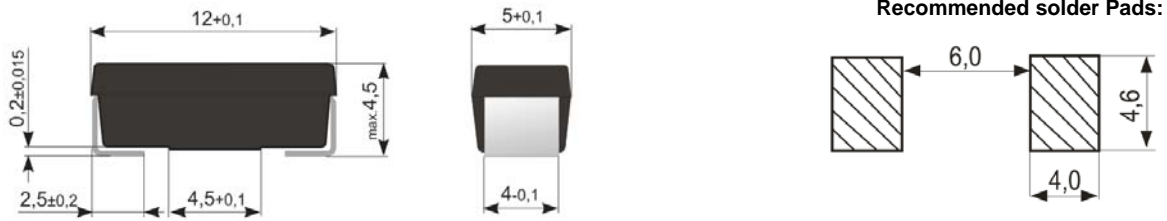
ELECTRICAL SPECIFICATIONS

Type		RWC
<u>Style</u>		5020
<u>Nominal Power rating</u>	P ₂₅ P ₇₀	2,2 1,6
<u>E-Series</u>		E12
<u>Resistance range</u>		0R01 ... 220R (Other values upon request)
<u>Tolerances</u>		± [%] 1 (F) ; 5 (J)
<u>Temperature coefficient</u>		[10 ⁻⁶ *K ⁻¹] See table below
<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])	± [%]	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> ($U = \sqrt{5 * P_{70} * R}$, 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)

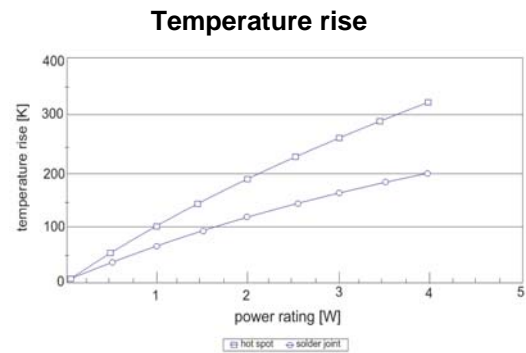
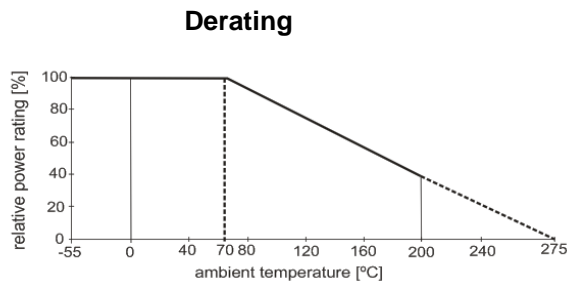
DIMENSIONS [mm]



TEMPERATURE COEFFICIENT

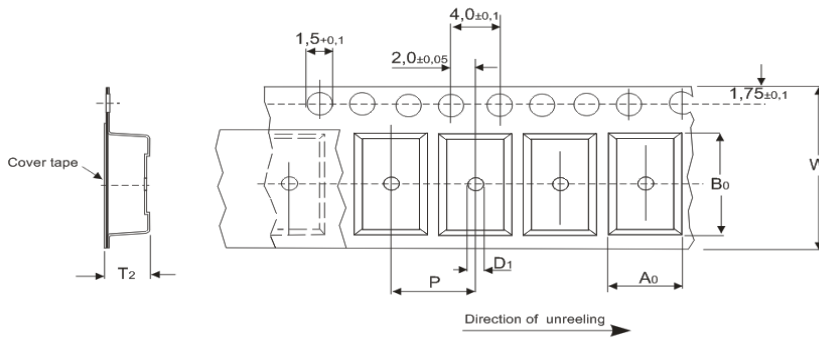
Type	Temperature Coefficient (-20 [°C] to 120 [°C])							
	$400^{±50}$ [ppm/K]		appr. +180 [ppm/K]		$0^{±20}$ [ppm/K]		$0^{±10}$ [ppm/K]	
RWC	$\geq 0R01$	$\leq 0R024$	$\geq 0R027$	$\leq 0R091$	$\geq 0R1$	$\leq 15R$	$\geq 16R$	$\leq 220R$

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 ₁	W ₂	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 [%]			