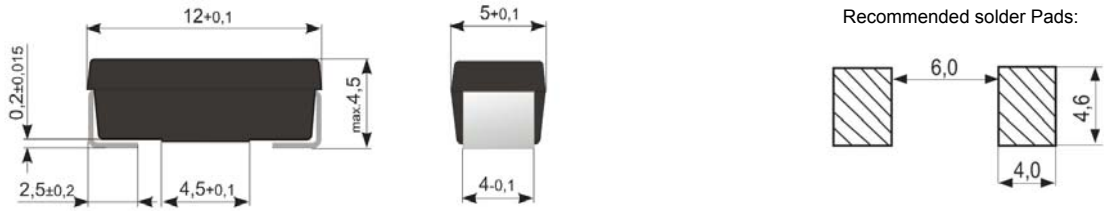


SMD
Power Resistor Non-Inductive
Flat wire
Epoxy encapsulation

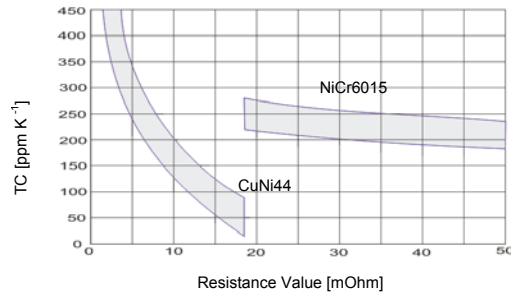


ELECTRICAL SPECIFICATIONS		
Type		RWN
<u>Style</u>		5020
<u>Nominal Power rating</u>	P_{25} P_{70}	2,2 1,6
<u>E-Series</u>		0R002,0R003,0R005,≥0R01 : E12 (Other values upon request)
<u>Resistance range</u>	[Ω]	0R002 ... 0R05
<u>Tolerances</u>	± [%]	1 (F) ; 5 (J)
<u>Temperature coefficient</u>	[10 ⁻⁶ *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>		55/175/56
<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>	± [%]	1,0
<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>Single pulse</u>	i_{max} $E_{i,max}$ $T_{imp,max}$	[A] 50 [mWs] 625 [ms] 5
<u>Periodic pulse load</u>	i_{max} $E_{i,per,max}$ $T_{imp,max}$ t_{pause}	[A] 30 (0R002...0R018) 40 (0R022...0R05) [mWs] 225 [ms] 5 [ms] 100
<u>Solderability</u> <i>IEC 60068-2-20</i> (245 ^{±3} [°C] 3 ^{±0,3} [s])		Solder bath method
<u>Marking</u> <i>IEC60062</i>		Printed in clear (type – value- tolerance)

DIMENSIONS [mm]

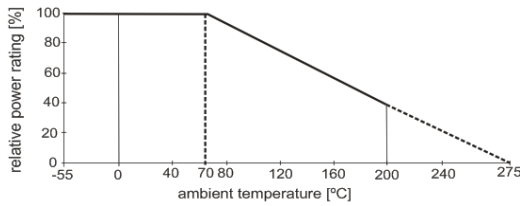


TEMPERATURE COEFFICIENT

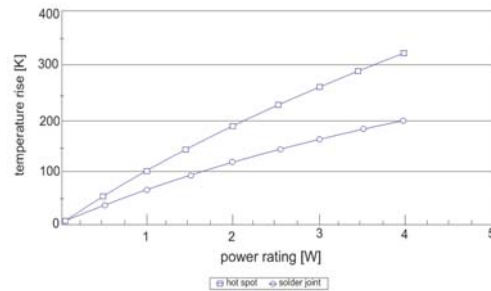


PERFORMANCE GRAPH'S

Derating

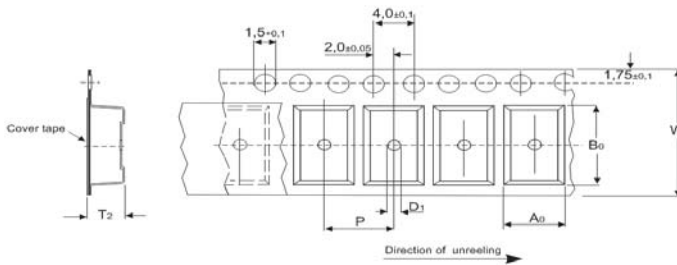


Temperature rise

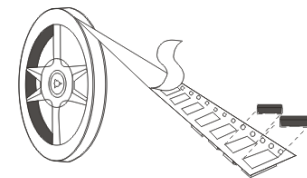


PACKAGING

The standard packaging for RWN, 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
RWN	25,4	29,5	90	330

Type	Packaging	Pieces
RWN	13 [inch] Blister tape	1500

ORDERING EXAMPLE

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