

RWN Series Datasheet

SMD | Power Resistor Non - Inductive | Flat Wire
Epoxy Encapsulation

APPLICATIONS



Automotive



Consumer & Electronics

FEATURES

Suitable for automatic pick and place

All welded construction

Small package size

Molded encapsulation

Non – inductive style

RoHs & REACH Compliant

ORDERING CODE - Example

New SAP Part Nr.:

RWN	502	J	K	-	13-	R01	AA
Serie	Size	Tol.	Pack-Code	TCR	Package type	R Value	Special
	502 = 5020	F = ±1% J = ±5%	K = Blister Tape	- Base on spec.	13- = 13 inch (Reel diameter)		AA = Standard

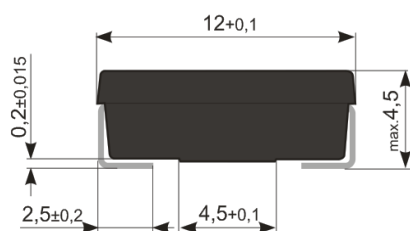
Historical VTM Part Nr.:

RWN	5020	J	K	-	13	R01
Type	Size	Tol.	K = Blister tape reel	TC	Reel diam.	R Value

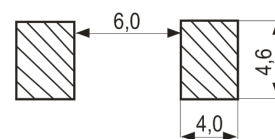
ELECTRICAL SPECIFICATIONS

Type			RWN502
Historical Part Number			RWN5020
Nominal Power Rating	P ₂₅	[W]	2,2
	P ₇₀		1,6
Resistance Range		[Ω]	R002 ... R05 (Other values upon request)
E-Series (preferred)			R002, R003, R005 ≥ R01 : E12 (Other upon request)
Tolerances		±[%]	F = 1% ; J = 5%
Temperature Coefficient		±[10 ⁻⁶ K ⁻¹]	Depends on the value, please check the table below
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

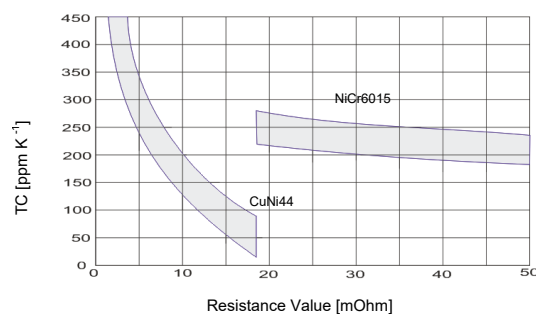


RWN Series Datasheet

PERFORMANCE DATA

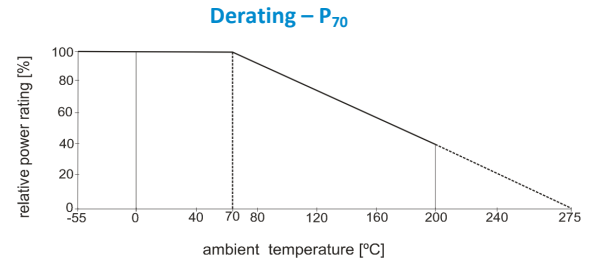
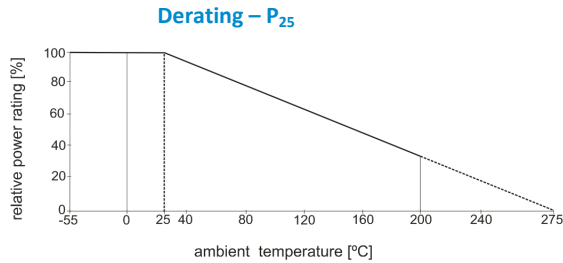
Type		RWN502	
Historical Part Number		RWN5020	
Derating Linear	[°C]	70...200 (0W)	
Climatic Category		55/175/56	
Endurance <i>IEC60115-1 clause 4.25</i> <i>(P₇₀ @ 70[°C], 1000[h])</i>	±[%]	1,0	
Damp Heat, Steady State <i>IEC60115-1 clause 4.24</i> <i>(40[°C], 93[% r.h.], 56[d])</i>	±[%]	0,25	
Climatic 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	
Single Pulse	i_{max} $E_{i,max}$ $T_{imp,max}$	[A] [mWs] [ms]	50 625 5
Periodic Pulse Load	i_{max} $E_{i, per, max}$ $T_{imp, max}$ t_{pause}	[A] [mWs] [ms] [ms]	30 (0R002 ...0R018) 40 (0R022 ...0R05) 225 5 100
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

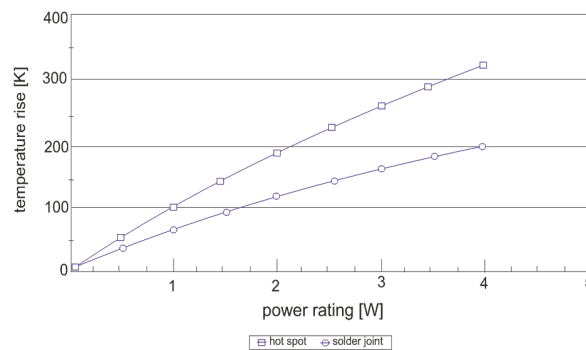


RWN Series Datasheet

PERFORMANCE GRAPHS

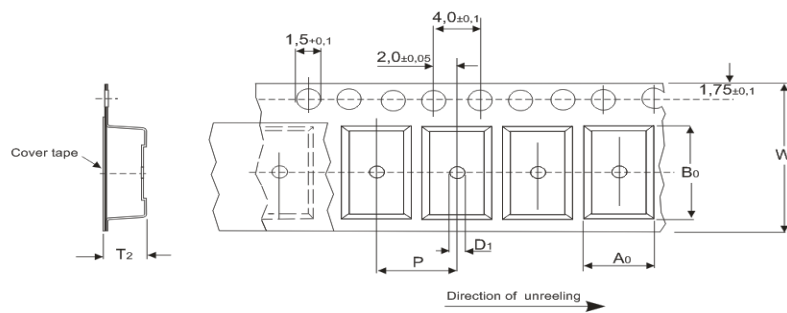


Temperature Rise

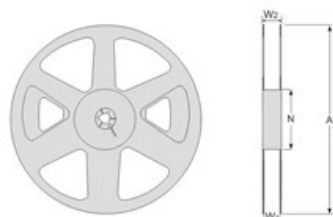


PACKAGING

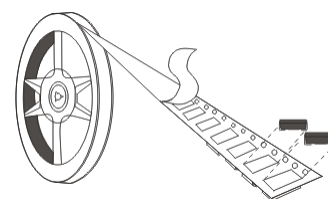
The standard packaging for RWN, dimensions below.



Type	A0	B0	W	D1	P	T2
RWN502	5,4	12,4	24	1,5	8	5



Type	W1	W2	N	A
RWN502	25,4	29,5	90	330



Type	Packaging	Pieces
RWN502	13(inch) Blister tape	1500

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Current Sense Resistors - SMD category](#):

Click to view products by [Yageo manufacturer](#):

Other Similar products are found below :

[CRL0603-FW-R700ELF](#) [PFS35-200RF1](#) [NPS 2-T126 5.000 OHM 1%](#) [PFS35-0R01J1](#) [PFS35-0R05J1](#) [PFS35-5RF1](#) [CD2015FC-0.10-1%](#)
[PR2512FKF7W0R004L](#) [RC1005F124CS](#) [RL73K3AR56JTDF](#) [RL7520WT-R001-F](#) [RL7520WT-R009-G](#) [RL7520WT-R020-F](#) [LRC-](#)
[LR2512LF-01-R820J](#) [WR06X104JGLJ](#) [TL2BR01F](#) [65709-330](#) [SP1R12J](#) [RL7520WT-R039-G](#) [RL7520WT-R002-F](#) [LRF2010-R003JW](#)
[KRL1632E-C-R200-F-T5](#) [KRL1632E-C-R200-F-T1](#) [RLP73M1ER051FTDF](#) [RLP73M2AR075FTDF](#) [SR731ERTTP5R10F](#) [SR731ERTTP100J](#)
[SR731ERTTP6R80F](#) [SR731ERTTP4R70F](#) [SR731ERTTP2R20F](#) [SR731ERTTP3R90F](#) [SR731ERTTP1R00F](#) [SR731ERTTP10R0F](#)
[SR731ERTTP2R00F](#) [SR731ERTTP8R20F](#) [SR731ERTTP3R9J](#) [SR731ERTTP8R2J](#) [SR731ERTTP2R0J](#) [SR731ERTTP4R7J](#)
[SR731ERTTP9R1J](#) [SR731ERTTP1R0J](#) [SR731ERTTP2R2J](#) [SR731ERTTP5R1J](#) [SR731ERTTP6R8J](#) [SR731ERTTP9R10F](#) [FCSL64R007JER](#)
[LRF1206-R018FW](#) [TLR2B10DR022FTDG](#) [TLR2H10DR01FTDG](#) [73L4R10G](#)