

Axial Round Wirewound Resistor – Normal & Miniature Style

Features

- Low cost, high performance, excellent long-term stability
- Wide resistance range (1Ω to 1MΩ & 0Ω for E24 series value)
- Standard tolerance: ±5% (±1% is available on request)
- RoHS Compliant



Mechanical Data

- Complete flameproof construction in accordance with article UL-94V-0
- The resistors meet overload tests in accordance with UL specification #1412 without producing a fire hazard
- Bulk, tape and reel standard, cut and formed, or radial Panasert/Avisert available upon request

Absolute Maximum Ratings & Characteristics

Description	RWW 25T	RWW S50T	RWW 50T	RWW S1W	RWW 1W	RWW S2W	RWW 2W	RWW S3W	RWW 3W	RWW 4W	RWW S5W	RWW 5W	RWW S7W	RWW 7W	Unit
Power Rating at 70° C	1/4	1/2	1/2	1	1	2	2	3	3	4	5	5	7	7	W
Rated Ambient Temperature	70							40							° C
Dielectric Withstanding Voltage	250	200	300	300	400	400	400	400	400	400	400	400	400	400	V
Resistance Range ±1% (Note 1)	0.22~150		0.1~800		0.1~1.8K		0.1~2.8K		0.1~7.5K			0.1~6.5K			Ω
Resistance Range ±5% (Note 1)	0.5~200		0.03~800		0.015~2.2K		0.015~2.5K		0.02~7.5K			0.03~6.8K			Ω
Operating Temperature Range	-40 to +200														° C
Temperature Coefficient	±300														ppm/° C

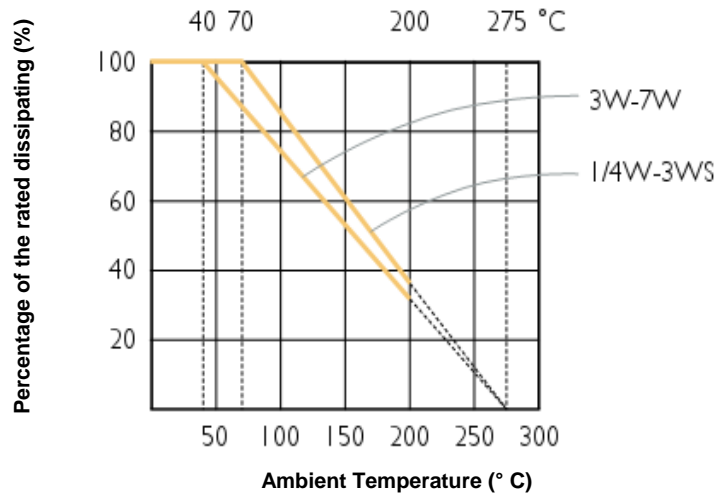
Note 1: E-24 series, below or over this resistance available on request

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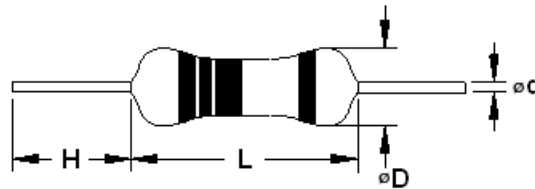
RWW Series

Power Derating Curve

For resistors operated in ambient temperature above 40°C, power rating must be derate in accordance with following curve below.



Dimensions (in mm)



Outline	Type		L	ØD	H	Ød
	Normal	Miniature				
T-25	RWW25T	RWWS50T	6.3±0.5	2.4±0.2	28±2.0	0.55±0.05
T-50	RWW50T	RWWS1W	9.0±0.5	3.3±0.3	26±2.0	0.55±0.05
T-100	RWW1W	RWWS2W	11.5±1.0	4.5±0.5	35±2.0	0.8±0.05
T-200	RWW2W	RWWS3W	15.5±1.0	5.0±0.5	33±2.0	0.8±0.05
T-300	RWW3W	RWWS5W	17.5±1.0	6.5±1.0	32±2.0	0.8±0.05
	RWW4W					
T-510	RWW5W	RWWS7W	24.5±1.0	8.0±0.5	38±2.0	0.8±0.05
	RWW7W					

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Environmental Performance Specification

Item	Test Methods		Specifications
Short Time Overload	IEC 60115-1 4.13	10 times rated power for 5 Sec.	±(2%+0.05Ω)
Dielectric Withstanding Voltage	IEC 60115-1 4.7	In V-Block for 60 Seconds	by Type
Temperature Coefficient	IEC 60115-1 4.8	-55°C to +155°C	by Type
Insulation Resistance	IEC 60115-1 4.6	In V-Block for 60 Sec.	>100MΩ
Solderability	IEC 60115-1 4.17	235±5°C for 3±0.5 Seconds	95% Min. Coverage
Resistance to Solvent	IEC 60115-1 4.30	IPA for 5±0.5 minute with Ultrasonic	No Deterioration of Coatings and Markings
Terminal Strength	IEC 60115-1 4.16	Direct Load for 10 Seconds in The Direction of the Terminal Leads	≥2.5kg (24.5N)
Load Life in Humidity	IEC 60115-1 4.24	40±2°C , 90-95% RH at RCWV for 56 days, loaded with 0.1 times RCWV	±(5%+0.05Ω)
Load Life	IEC 60115-1 4.25	70°C at RCWV for 1000 Hrs (1.5 Hrs. on, 0.5 Hrs. off)	±(5%+0.05Ω)
Temperature Cycling	IEC 60115-1 4.19	-55°C → Room Temp. → +155°C → Room Temp. for 5 Cycles	±(1%+0.05Ω)
Resistance to Soldering Heat	IEC 60115-1 4.18	260±3°C for 10±1 Seconds, immersed to a point 3±0.5mm from the body	±(1%+0.05Ω)

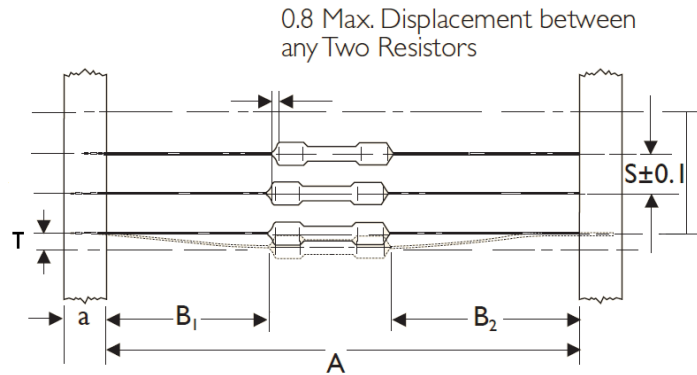
* Rated Continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$

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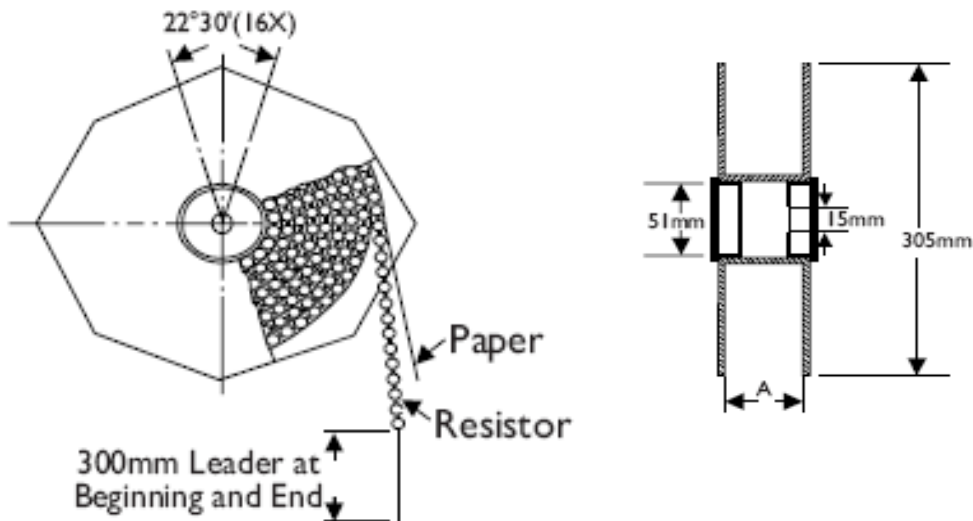
Packing Information

Carrier Tape Dimensions (in mm)



Outline	A	B1-B2	S (Spacing)	a	T (Max. Deviation of Spacing)
T-25	52.4±1.5	1.2	5	6±0.5	1mm per 10 spacings, 0.5mm per 5 spacings
T-50	52.4±1.5	1.2	5	6±0.5	
T-100	73.0±1.5	1.5	5	6±0.5	
T-200	73.0±1.5	1.5	10	6±0.5	
T-300	73.0±1.5	1.5	10	6±0.5	
T-510	91.0±1.5	1.5	10	6±0.5	

Tape on Reel Pack Information

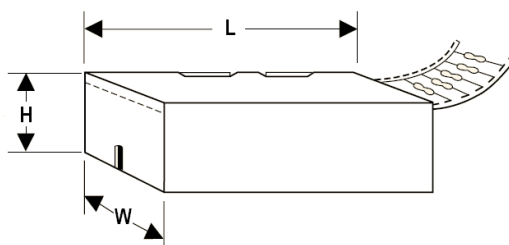


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Outline	Reel/Inner Box Qty.	Across Flange (A)	Inner Box Size (LxWxH)	Inner Box Weight	Carton Qty.	Carton Size (LxWxH)	Carton Weight
	(pcs)	(cm)	(cm)	(kg)	(pcs)	(cm)	(kg)
T-25	5,000	7.2	29.0x8.0x29.6	1.40	50,000	60.0x30.5x43.5	16
T-50	2,500	7.2	29.0x8.0x29.6	1.38	25,000	60.0x30.5x43.5	15
T-100	2,000	9.5	29.2x9.8x29.6	1.95	20,000	60.0x30.5x54.5	21
T-200	1,000	9.5	29.2x9.8x29.6	1.50	10,000	60.0x30.5x54.5	16
T-300	500	9.5	29.2x9.8x29.6	2.20	5,000	60.0x30.5x54.5	23
T-510	500	11.3	29.2x11.8x29.6	2.50	4,000	60.0x30.5x54.5	21

Ammo Pack Information

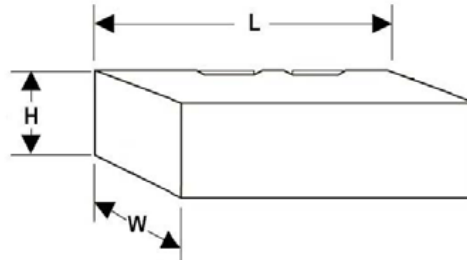


Outline	Inner Box Qty.	Inner Box Size (LxWxH)	Inner Box Weight	Carton Qty.	Carton Size (LxWxH)	Carton Weight
	(pcs)	(cm)	(kg)	(pcs)	(cm)	(kg)
T-25	5,000	25.8x7.4x9.0	1.08	75,000	42.5x28.0x34.8	16.30
T-50	1,000	26.5x9.7x7.8	0.36	30,000	42.5x28.0x34.8	10.90
T-100	1,000	26.3x9.7x9.5	0.74	12,000	42.5x28.0x34.8	8.98
T-200	1,000	26.3x9.7x9.5	1.20	12,000	42.5x28.0x34.8	14.50
T-300	250	25.5x11.6x7.9	1.15	3,500	42.5x28.0x34.8	18.00
T-510	250	25.5x11.6x7.9	1.15	3,500	42.5x28.0x34.8	18.00

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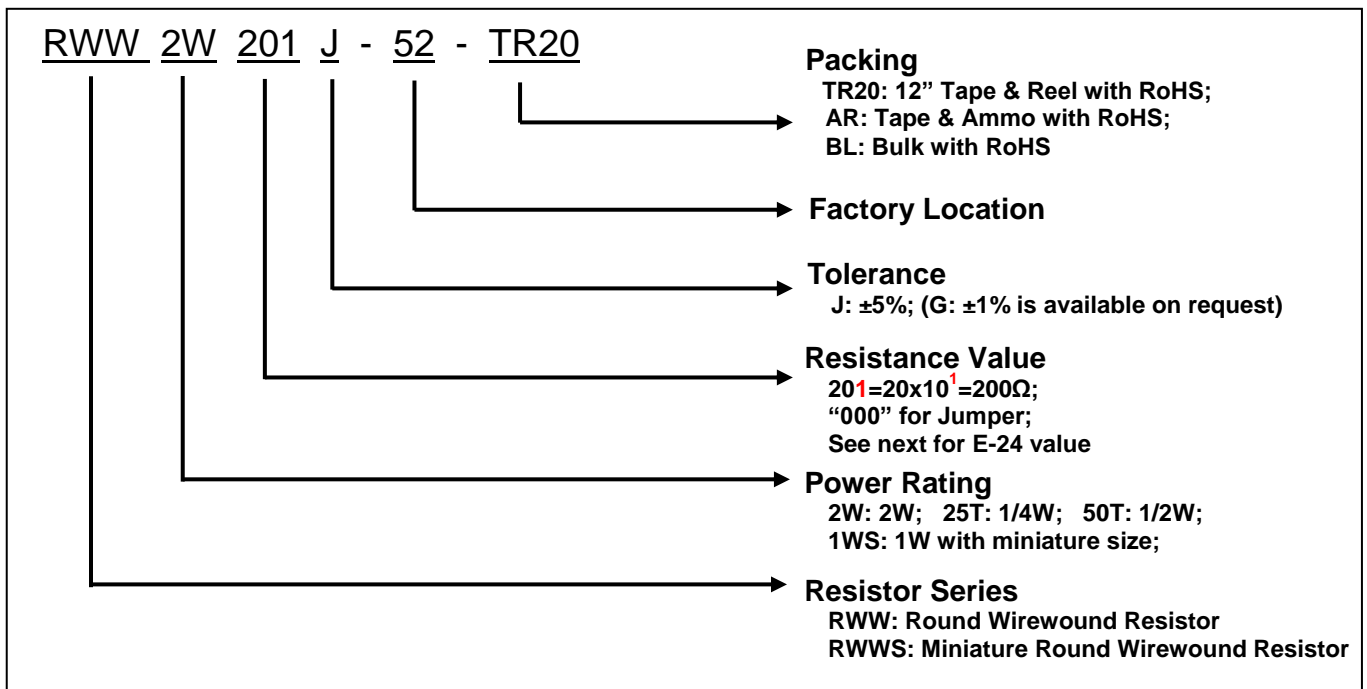
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Bulk Pack Information



Outline	Inner Box Qty.	Inner Box Size (LxWxH)	Inner Box Weight	Carton Qty.	Carton Size (LxWxH)	Carton Weight
	(pcs)	(cm)	(kg)	(pcs)	(cm)	(kg)
T-25	10,000	26.3x9.7x11.7	1.82	100,000	42.5x28.0x34.8	19.0
T-50	5,000	26.3x9.7x11.7	1.93	50,000	42.5x28.0x34.8	20.0
T-100	2,000	26.3x9.7x11.7	1.64	32,000	42.5x28.0x34.8	26.0
T-200	1,000	26.3x9.7x11.7	1.06	16,000	42.5x28.0x34.8	18.0
T-300	500	26.3x9.7x11.7	2.00	4,000	42.5x28.0x34.8	18.0
T-510	500	26.3x9.7x11.7	2.00	4,000	42.5x28.0x34.8	18.0

How to order:



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E-24 Series of Resistance Value Table

xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω	xxx (code)	Ω
000	<50m	1R0	1.0	1R1	1.1	1R2	1.2	1R3	1.3	1R5	1.5	1R6	1.6
1R8	1.8	2R0	2.0	2R2	2.2	2R4	2.4	2R7	2.7	3R0	3.0	3R3	3.3
3R6	3.6	3R9	3.9	4R3	4.3	4R7	4.7	5R1	5.1	5R6	5.6	6R2	6.2
6R8	6.8	7R5	7.5	8R2	8.2	9R1	9.1	100	10	110	11	120	12
130	13	150	15	160	16	180	18	200	20	220	22	240	24
270	27	300	30	330	33	360	36	390	39	430	43	470	47
510	51	560	56	620	62	680	68	750	75	820	82	910	91
101	100	111	110	121	120	131	130	151	150	161	160	181	180
201	200	221	220	241	240	271	270	301	300	331	330	361	360
391	390	431	430	471	470	511	510	561	560	621	620	681	680
751	750	821	820	911	910	102	1K	112	1.1K	122	1.2K	132	1.3K
152	1.5K	162	1.6K	182	1.8K	202	2.0K	222	2.2K	242	2.4K	272	2.7K
302	3.0K	332	3.3K	362	3.6K	392	3.9K	432	4.3K	472	4.7K	512	5.1K
562	5.6K	622	6.2K	682	6.8K	752	7.5K	822	8.2K	912	9.1K	103	10K
113	11K	123	12K	133	13K	153	15K	163	16K	183	18K	203	20K
223	22K	243	24K	273	27K	303	30K	333	33K	363	36K	393	39K
433	43K	473	47K	513	51K	563	56K	623	62K	683	68K	753	75K
823	82K	913	91K	104	100K	114	110K	124	120K	134	130K	154	150K
164	160K	184	180K	204	200K	224	220K	244	240K	274	270K	304	300K
334	330K	364	360K	394	390K	434	430K	474	470K	514	510K	564	560K
624	620K	684	680K	754	750K	824	820K	914	910K	105	1.0M		

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