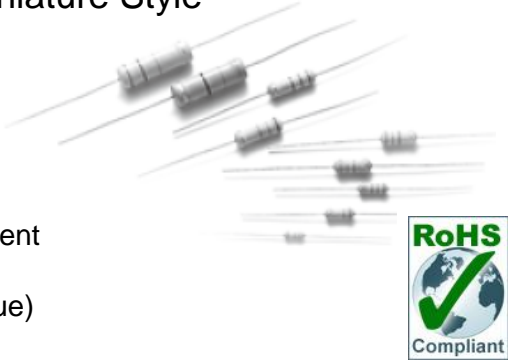


Metal Oxide Resistor Flame-Proof Type - Normal & Miniature Style



**Features**

- Low cost, high performance, excellent long-term stability
- High power-to-size ratio for significant space savings
- High surge/overload capability, controlled temperature coefficient
- Non-inductive design, resistance range (0.1Ω to 100Ω) .
- Wide resistance range (0.1Ω to 1MΩ & 0 Ω for E24 series value)
- Standard tolerance: ±5% (±2% is available on request)
- RoHS Compliant

**Mechanical Data**

- Flameproof multi-layer coating meets UL94V-0
- Complete flame proof construction UL 1412
- Bulk, tape and reel standard, cut and formed, or radial Panasert/Avisert available upon request

**Absolute Maximum Ratings & Characteristics**

Description	RMX 25T	RMX S50T	RMX 50T	RMX S1W	RMX 1W	RMX S2W	RMX 2W	RMX S3W	RMX 3W	RMX S5W	RMX 5W	Unit
Power Rating at 70° C	1/4	1/2	1/2	1	1	2	2	3	3	5	5	W
Maximum Working Voltage	200	250	250	300	350	350	350	350	500	700	750	V
Maximum Overload Voltage	300	400	400	500	600	600	600	600	800	900	1000	V
Dielectric Withstanding Voltage	250	350	350	400	500	500	500	500	500	500	500	V
Resistance Range	0.1 ~ 1M & 0 (Note 1)											Ω
Operating Temperature Range	-55 to +235											° C
Temperature Coefficient	±300											ppm/° C

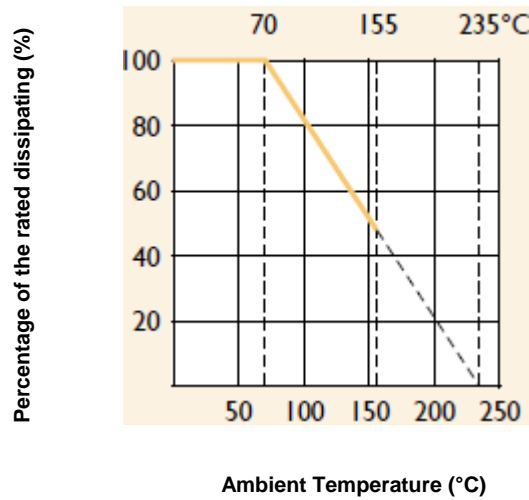
**Note 1:** E-24 series, below or over this resistance available on request

# Metal Oxide Resistor Flame-Proof Type - Normal & Miniature Style

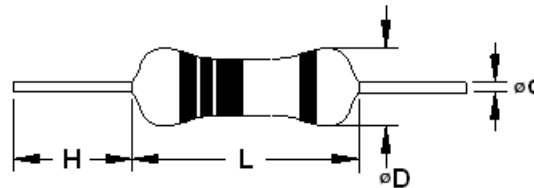
## RMX & RMXS Series

### Power Derating Curve

For resistors operate in the ambient temperature over 70°C, loading power ratio will derated in accordance with following curve.



### Dimensions (in mm)



Outline	Type		L	ØD	H	Ød
	Normal	Miniature				
T-25	RMX25T	RMXS50T	6.3±0.5	2.4±0.2	28±2.0	0.55±0.05
T-50	RMX50T	RMXS1W	9.0±0.5	3.3±0.3	26±2.0	0.55-./+0.1
T-100	RMX1W	RMXS2W	11.5±1.0	4.5±0.5	35±2.0	0.8±0.05
T-200	RMX2W	RMXS3W	15.5±1.0	5.0±0.5	33±2.0	0.8±0.05
T-500	RMX3W	RMXS5W	24.5±1.0	8.5±1.0	38±2.0	0.8±0.05
T-500	RMX5W	-	24.5±1.0	8.5±1.0	38±2.0	0.8±0.05

# Metal Oxide Resistor Flame-Proof Type - Normal & Miniature Style

## RMX & RMXS Series

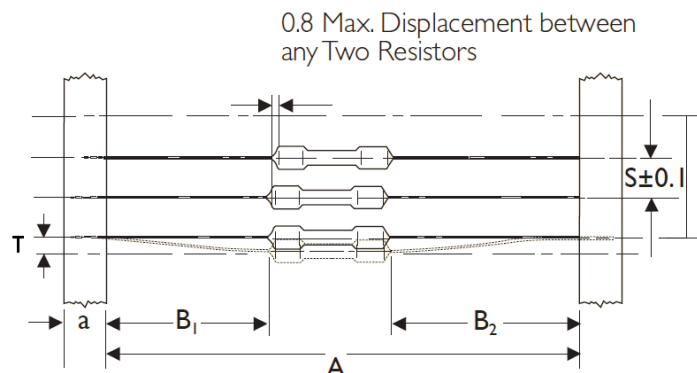
### Environmental Performance Specification

Item	Test Methods		Specifications
Short Time Overload	IEC 60115-1 4.13	2.5 Times RCWV* for 5 seconds	±(1.0% +0.05Ω) (Normal Style) ±(2.0% +0.05Ω) (Miniature Style)
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 Seconds	>1000MΩ
Solderability	IEC 60115-1 4.17	235°C±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)
Pulse Overload	IEC 60115-1 4.39	4 Times RCWV 10000 Cycle (1 sec. on, 25 sec. off)	±(2% +0.05Ω)
Load Life in Humidity	IEC 60115-1 4.24	40±2°C , 90-95% RH 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°C±3°C for 10±1 Seconds, immersed to a point 3±0.5mm from the body	±(1% +0.05Ω)

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

### Packing Information

#### Carrier Tape Dimensions (in mm)

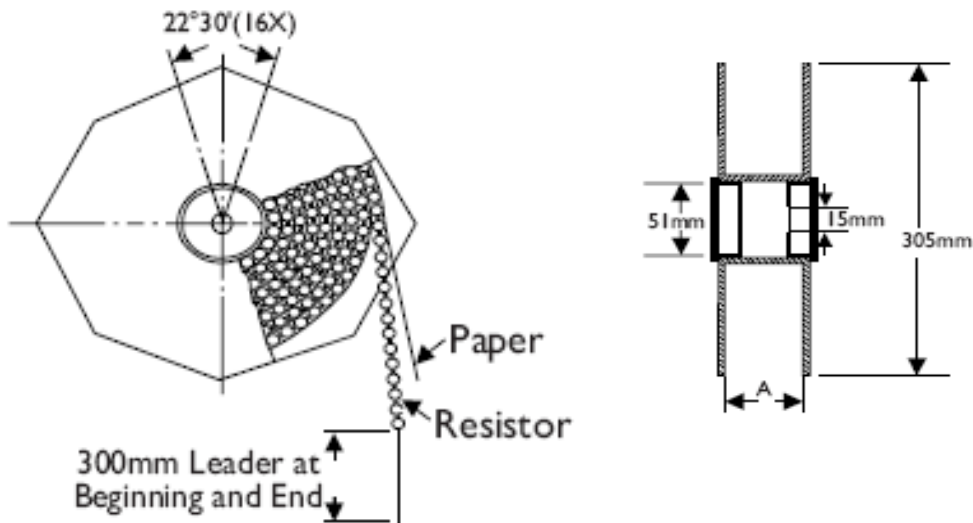


# Metal Oxide Resistor Flame-Proof Type - Normal & Miniature Style

## RMX & RMXS Series

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-500	91.0±1.5	1.5	10	6±0.5	

### Tape on Reel Pack Information

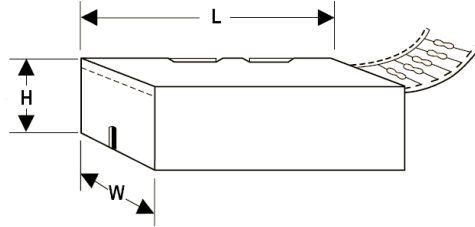


Outline	Reel/Inner Box Qty.	Across Flange (A)	Inner Box Size (LxWxH)	Inner Box Weight	Carton Qty.	Carton Size (LxWxH)	Carton Weight
	(pcs)	(cm)	(cm)	(kg)	(pcs)	(cm)	(kg)
T-25	5,000	7.2	29.0x8.0x29.6	1.40	50,000	60.0x30.5x43.5	16
T-50	2,500	7.2	29.0x8.0x29.6	1.38	25,000	60.0x30.5x43.5	15
T-100	2,000	9.5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

# Metal Oxide Resistor Flame-Proof Type - Normal & Miniature Style

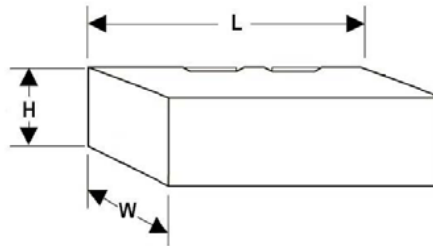
## RMX & RMXS Series

### 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-500	250	25.5x11.6x7.9	1.15	3,500	42.5x28.0x34.8	18.00

### 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-500	500	26.3x9.7x11.7	2.00	4,000	42.5x28.0x34.8	18.0

# Metal Oxide Resistor Flame-Proof Type - Normal & Miniature Style

## RMX & RMXS Series

### How to order:

<b>RMX 2W 201 J - 52 - RG20</b>	<b>Packing:</b> RG20: 12" Tape & Reel with RoHS+Halogen Free AG: Tape & Ammo with RoHS+Halogen Free BG: Bulk with RoHS+Halogen Free TR20: 12" Tape & Reel with RoHS AR: Tape & Ammo with RoHS BL: Bulk with RoHS
	<b>Factory Location</b>
	<b>Tolerance</b> J: ±5%; (G: ±2% is available on request)
	<b>Resistance Value</b> 201=20x10 <sup>1</sup> =200Ω; "000" for Jumper; See next for E-24 value
	<b>Power Rating</b> 2W: 2W; 25T: 1/4W; 50T: 1/2W; 1WS: 1W with miniature size;
	<b>Resistor Series</b> RMX: Metal Oxide Film Resistor RMXS: Miniature Metal Oxide Film Resistor

### 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

# Metal Oxide Resistor Flame-Proof Type - Normal & Miniature Style

## RMX & RMXS Series

xxx (code)	$\Omega$	xxx (code)	$\Omega$	xxx (code)	$\Omega$	xxx (code)	$\Omega$	xxx (code)	$\Omega$	xxx (code)	$\Omega$	xxx (code)	$\Omega$
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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