



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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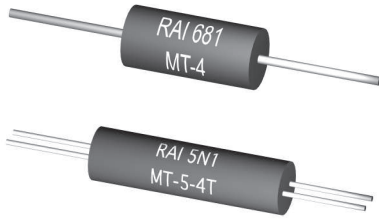
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# MT Series

Low Ohm Power Resistors

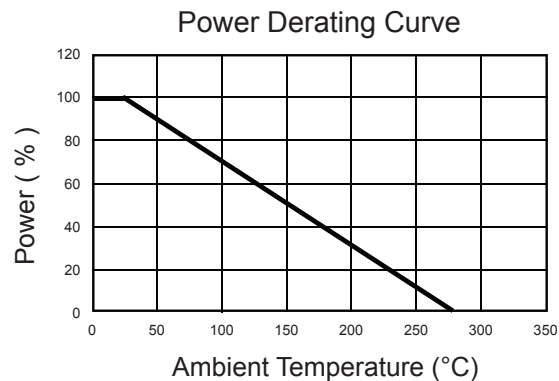
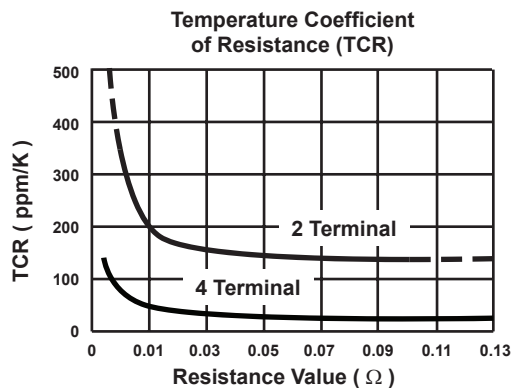


- Resistances from 0.003 to 0.10 Ohms
- Tolerance to  $\pm 0.1\%$
- TCR's to  $\pm 20$  ppm/ $^{\circ}\text{C}$  ( Four Terminal Version )
- For Current Sensing and Shunt Applications
- All Welded Construction
- Low Inductance (  $<10\text{nH}$  )
- Four Terminal Versions Available (Consult Factory)

## SPECIFICATIONS

Specification	Value	
Resistance Range	0.003 to 0.10 Ohms*	
Tolerances	2 Terminal: $\pm 1\%$ / $\pm 5\%$ ( Contact Factory for Others ) 4 Terminal: $\pm 0.1\%$ / $\pm 0.5\%$ / $\pm 1\%$ / $\pm 5\%$ ( Contact Factory for Others )	
Temperature Coefficient	See Chart Below	
Inductance	$<10\text{nH}$	
Dielectric Strength	1000VAC ( 500VAC for MT-1A and MT-2A )	
Insulation Resistance	$>1000$ MOhms / Dry	
Environmental Performance (MIL-STD 202)	$\Delta R$	Test Conditions
Load Life	$\pm 1\%$	$70^{\circ}\text{C}$ / 90 min ON / 30 min OFF / 1000 hr
Moisture Resistance	$\pm 1\%$	$40^{\circ}\text{C}$ / 90-95% RH / DC 0.1W / 1000 hr
Temperature Cycling	$\pm 1\%$	$-40^{\circ}\text{C}$ for 30 min / $+125^{\circ}\text{C}$ for 30 min / 1000 hr
Short Term Overload	$\pm 1\%$	5X rated power for 5 seconds

\*Other values available - Molding Wirewound



## Ordering Information

Part Description: Part Type - Resistance - Tolerance - TCR ( if not standard ) - 4T ( if desired )

Example: MT-5 0.01 Ohm 1% 4T

# MT Series

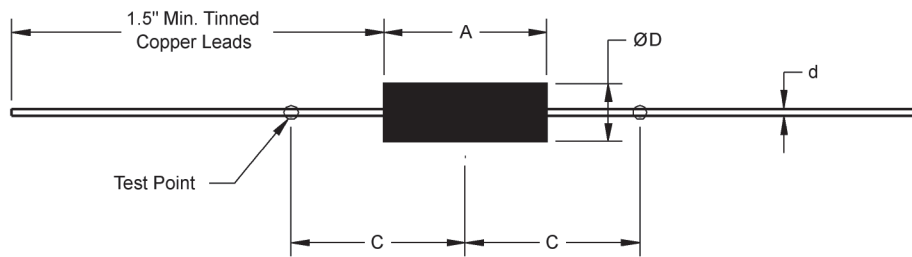
Low Ohm Power Resistors



## SPECIFICATIONS (continued)

Type	Power Rating Watts @ 25°C	Dimensions				
		A ±0.020" [±0.5mm]	D ±0.020" [±0.5mm]	C ±0.020" [±0.5mm]	d ±0.002" [±0.05mm]	W (4T) ±0.010" [±0.3mm]
MT-1A	1	0.430 [10.9]	0.120 [3.0]	0.590 [15.0]	0.025 [0.6]	-
MT-2A	2	0.430 [10.9]	0.120 [3.0]	0.590 [15.0]	0.032 [0.8]	-
MT-2B	3	0.580 [14.7]	0.200 [5.1]	0.665 [16.9]	0.032 [0.8]	-
MT-2C	3	0.500 [12.7]	0.250 [6.4]	0.625 [15.9]	0.032 [0.8]	-
MT-3	4	0.600 [15.2]	0.250 [6.4]	0.675 [17.1]	0.032 [0.8]	0.125 [3.2]
MT-4	4.5	0.750 [19.1]	0.250 [6.4]	0.750 [19.1]	0.040 [1.0]	0.125 [3.2]
MT-5	5	0.890 [22.6]	0.335 [8.5]	0.820 [20.8]	0.040 [1.0]	0.125 [3.2]
MT-6	6	1.055 [26.8]	0.395 [10.0]	0.903 [22.9]	0.040 [1.0]	0.125 [3.2]
MT-10	10	1.755 [44.58]	0.355 [9.02]	1.338 [34.0]	0.040 [1.0]	0.125 [3.2]

### Two Terminal



Terminal Strength: 10lb Pull Test

### Four Terminal (4T)

