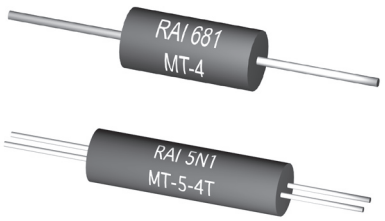
# MT Series

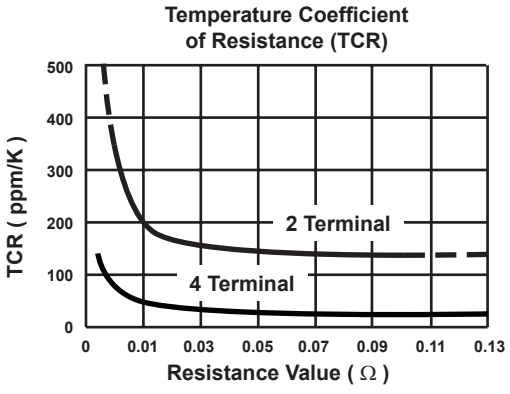
Low Ohm Power Resistors

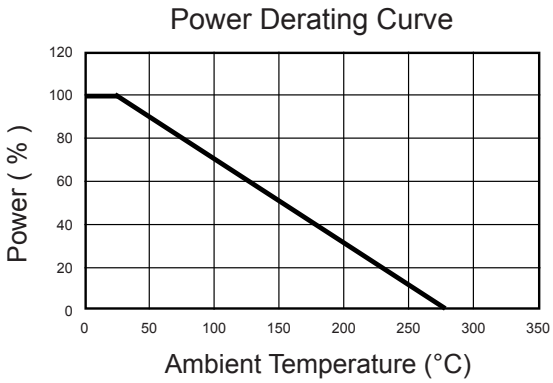



- **Resistances from 0.003 to 0.10Ohms**
- **Tolerance to ±0.1%**
- **TCR's to ± 20 ppm/K** ( Four Terminal Version )
- **For Current Sensing and Shunt Applications**
- **All Welded Construction**
- **Low Inductance ( <10nH )**
- **Four Terminal Versions Available** (Consult Factory)

## SPECIFICATIONS

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



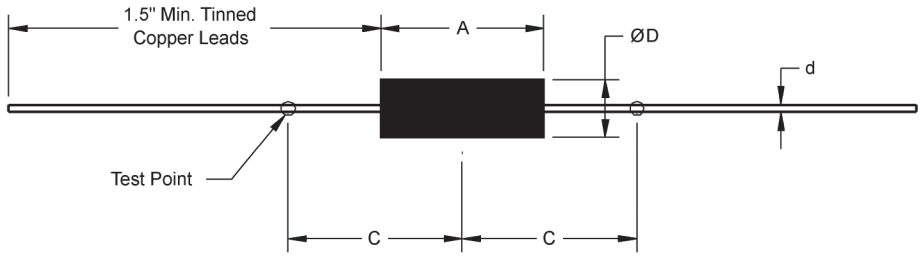

## Ordering Information

Part Number - Resistance - Tolerance - TCR ( if not standard ) - 4T ( if desired )
Example: MT-5 0.01 Ohm 1% 4T

## 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)

