RESISTORS

LR-A


| WATT | DIMENSIONS (mm) |  |  |  | OHM |
| :---: | :---: | :---: | :---: | ---: | :---: |
|  | d $\phi$ <br> min. | L1 <br> max. | L2 <br> min. | W <br> max. |  |
| 2 | 0.8 | 18.5 | 30.0 | 7.4 | $0.1 \sim 1 \mathrm{~K}$ |
| 3 | 0.8 | 23.0 | 30.0 | 8.6 | $0.1 \sim 2 \mathrm{~K}$ |
| 5 | 0.8 | 23.0 | 30.0 | 10.4 | $0.1 \sim 3 \mathrm{~K}$ |
| 7 | 0.8 | 36.0 | 30.0 | 10.4 | $1.0 \sim 4 \mathrm{~K}$ |
| 10 | 0.8 | 48.5 | 30.0 | 10.4 | $1.0 \sim 5 \mathrm{~K}$ |
| 15 | 1.0 | 49.2 | 30.0 | 13.5 | $1.0 \sim 5 \mathrm{~K}$ |
| 20 | 1.0 | 61.0 | 30.0 | 14.5 | $1.0 \sim 5 \mathrm{~K}$ |

LR-B


LR-C1


| WATT | DIMENSIONS (mm) |  |  |  |  |  |  | OHM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \mathrm{B} \\ \pm 0.2 \end{gathered}$ | $\begin{gathered} \mathrm{d} \phi \\ \pm 0.2 \end{gathered}$ | $\begin{gathered} \mathrm{L} 1 \\ \max . \end{gathered}$ | $\begin{gathered} \mathrm{L} 2 \\ \pm 0.5 \end{gathered}$ | $\begin{gathered} \mathrm{L} 3 \\ \pm 1.0 \end{gathered}$ | $\begin{gathered} \hline \text { P } \\ \pm 1.0 \end{gathered}$ | $\underset{\max }{\mathrm{W}}$ |  |
| 10 | 5.6 | 2.5 | 48.8 | 23.0 | 12.5 | 32.5 | 10.3 | 1~2K |
| 15 | 5.6 | 2.5 | 48.8 | 23.0 | 12.5 | 32.5 | 13.5 | 1~3K |
| 20 | 5.6 | 2.5 | 65.8 | 23.0 | 12.5 | 47.0 | 13.5 | 1~3K |
| 25 | 5.6 | 2.5 | 65.8 | 23.0 | 12.5 | 47.0 | 13.5 | 1~3K |
| 30 | 7.7 | 3.0 | 75.3 | 29.2 | 18.0 | 60.0 | 18.8 | 1~5K |
| 40 | 7.7 | 3.0 | 90.3 | 29.2 | 18.0 | 65.0 | 19.5 | 1~5K |


| WATT | DIMENSIONS (mm) |  |  | OHM |
| ---: | :---: | :---: | :---: | :---: |
|  | L <br> max. | $P$ <br> $\pm 1.0$ | $W$ <br> max. |  |
| 5 | 27.8 | 15.0 | 10.3 | $0.1 \sim 1 \mathrm{~K}$ |
| 7 | 35.8 | 22.5 | 10.3 | $1.0 \sim 1 \mathrm{~K}$ |
| 10 | 48.8 | 35.0 | 10.3 | $1.0 \sim 1 \mathrm{~K}$ |




| WATT | DIMENSIONS (mm) |  |  |  |  | OHM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $H 1$ <br> $\pm 1.0$ | H 2 <br> $\pm 1.0$ | L <br> max. | P <br> $\pm 1.0$ | W <br> max. |  |
| 5 | 25.5 | 30.0 | 27.8 | 15.0 | 10.3 | $0.1 \sim 1 \mathrm{~K}$ |
| 7 | 25.5 | 30.0 | 35.8 | 22.5 | 10.3 | $1.0 \sim 1 \mathrm{~K}$ |
| 10 | 25.5 | 30.0 | 48.8 | 35.0 | 10.3 | $1.0 \sim 2 \mathrm{~K}$ |
| 15 | 25.8 | 30.0 | 48.8 | 32.5 | 13.5 | $1.0 \sim 2 \mathrm{~K}$ |
| 20 | 25.8 | 30.0 | 65.8 | 48.5 | 13.5 | $1.0 \sim 2 \mathrm{~K}$ |



| WATT | DIMENSIONS $(\mathrm{mm})$ |  |  |  |  | OHM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L1 <br> max. | L2 <br> max. | L3 <br> max. | P <br> max. | W <br> max. |  |
| 5 | 22.3 | 29.0 | 9.5 | 10.5 | 10.4 | $0.1 \sim 1 \mathrm{~K}$ |
| 7 | 35.5 | 43.5 | 15.5 | 10.5 | 10.4 | $1.0 \sim 1 \mathrm{~K}$ |
| 10 | 48.5 | 43.5 | 15.5 | 10.5 | 10.4 | $1.0 \sim 1 \mathrm{~K}$ |

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LR-E



LR-M


| WATT | DIMENSIONS (mm) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | H <br> $\max$. | L 1 <br> max. | L 2 <br> $\pm 0.3$ | L 3 <br> $\min$. | P <br> $\pm 0.3$ | $W$ <br> $\max$. |  |
| 5 | 9.5 | 26.5 | 3.0 | 6.0 | 4.6 | 13.0 | $0.1 \sim 1 \mathrm{~K}$ |
| 7 | 9.5 | 40.0 | 3.0 | 6.0 | 4.6 | 13.0 | $1.0 \sim 1 \mathrm{~K}$ |
| 10 | 9.5 | 52.0 | 3.0 | 6.0 | 4.6 | 13.0 | $1.0 \sim 2 \mathrm{~K}$ |

CHARACTERISTICS

| ITEMS | SPECIFICATION VALUE | TEST METHOD |
| :---: | :---: | :---: |
| VIBRATION | WITHIN $\pm 1 \%$ | AS PER EIA-RS-178-B |
| SHORT-TIME OVERLOAD | WITHIN $\pm 3 \%$ | APPLY VOLTAGE 5 TIME RATED POWER FOR 5 SEC. |
| INSULATION RESISTANCE | 2OMOHM OR OVER | MEASURE THE PART BETWEEN CEMENT SURFACE AND RESISTOR. |
| WITHSTAND VOLTAGE | WITHIN $\pm 1 \%$ | APPLY AC 900V FOR 1 MIN . |
| FLAME-RESISTANCE | NO SELF-IGNITION | VOLTAGE UNDER 500V UNDER ANY OVERLOAD. |
| RESISTANCE TEMPER ATURE CHARACTERISTICS | $\pm 260$ PPM $/{ }^{\circ} \mathrm{C}$ | $-55 \pm 5^{\circ} \mathrm{C}$ TO $275 \pm 5^{\circ} \mathrm{C}$ |
| MOISTURE RESISTANCE | WITHIN $\pm 3 \%$ | APPLY DC 100 V FOR 500 HRS BETWEEN MOUNTING METAL PIECE AND TERMINAL IN MOISTURE ( $40^{\circ} € 95 \%$ RH) |
| MOISTURE RESISTANCE LOAD LIFE | WITHIN $\pm 5 \%$ | IN MOISTURE ( $40^{\circ} \mathrm{C} 95 \%$ RH) IMPRESS FOR 500 HRS IN CYCLES IN WHICH DC VOLTAGE ONE-TENTH 1/10 RATED POWER IS APPLIED FOR 1.5 HRS AND CUT OFF FOR 0.5 HRS. |
| LOAD LIFE | WITHIN $\pm 5 \%$ | IMPRESS FOR 500 HRS IN CYCLES IN WHICH RATED VOLTAGE IS APPLIED FOR 1.5 HRS AND CUT OFF 0.5 HR. |
| THERMAL IMPACT | WITHIN $\pm 2 \%$ | IMMEDIATELY AFTER APPLYING RATED POWER FOR 30 MIN., LEAVE IT FOR 2 HRS UNDER TEMPERATURE OF $-30^{\circ} \mathrm{C}$ |

POWER DERATING CURVE


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