

Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions
Please see Data Files

- Explanation of Part Numbers

Ex. 1 : ERX type


The above example 1 shows a metal film resistor SMD type, 2 W power rating, resistance value of $1.0 \Omega$, tolerance $\pm 5 \%$, and embossed taping.

Ex. 2 : ERG type


[^0][^1]
## Construction



Dimensions in mm (not to scale)


| Type | Dimensions (mm) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $P$ | $L$ | $W$ | $H$ | $A$ | $B$ |
| ERG(X)1H | $12.5_{-0.5}^{+1.0}$ | $9.0 \pm 0.5$ | $5.6 \pm 0.3$ | $5.0 \pm 0.2$ | $1.5 \pm 0.3$ | $3.0 \pm 1.0$ |
| ERG(X)2H | $15.0_{-0.5}^{+1.0}$ | $12.0 \pm 0.5$ | $6.4 \pm 0.3$ | $5.8 \pm 0.2$ | $1.5 \pm 0.3$ | $4.0 \pm 1.0$ |

## Ratings

| Type | Power Rating at $70^{\circ} \mathrm{C}$ (W) ${ }^{(1)}$ | Dielectric Withstanding Voltage (VAC) | Res. Tol. (\%) ${ }^{(2)}$ | Resistance <br> Range $(\Omega)^{(2)}$ |  | $\begin{aligned} & \text { T.C.R. } \\ & \left(\times 10^{-6} /{ }^{\circ} \mathrm{C}\right) \end{aligned}$ | Standard Resistance Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | min. ${ }^{(3)}$ | max. |  |  |
| ERG(X)1H | 1 | 1000 | $J( \pm 5)$ | 22 m | 39 m | $\pm 1000$ | E12 |
|  |  |  |  | 47 m | 82 m | $\pm 500$ |  |
|  |  |  | $\begin{array}{ll} \hline G( \pm 2) \\ J & ( \pm 5) \end{array}$ | 0.1 | 10 k | $\pm 350$ |  |
| ERG(X)2H | 2 | 1000 | $J( \pm 5)$ | 22 m | 39 m | $\pm 1000$ | E12 |
|  |  |  |  | 47 m | 82 m | $\pm 500$ |  |
|  |  |  | $\begin{array}{ll} \text { G }( \pm 2) \\ J & ( \pm 5) \\ \hline \end{array}$ | 0.1 | 10 k | $\pm 350$ |  |

(1) Rated Continuous Working Voltage (RCWV) shall be determined from $R C W V=\sqrt{\text { Power Rating } \times \text { Resistance Value. }}$
(2) Resistance tolerance and resistance range is of use besides range listed, please inquire.
(3) As for the low resistance value range, " $Q$ " or " $Z$ " is given to the part number.(Refer to the explanation of part numbers.)

## Power Derating Curve

For resistors operated in ambient temperatures above $70{ }^{\circ} \mathrm{C}$, power rating shall be derated in accordance with the figure on the right.



[^0]:    The above example 2 shows a metal oxide film resistor SMD type, 2 W power rating, resistance value of $1.0 \mathrm{k} \Omega$, tolerance $\pm 5 \%$,and embossed taping.

[^1]:    Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.

