## Chip resistor networks

## MNR35 (3216×5 size)

## -Features

1) Common terminals yield area $40 \%$ smaller than that of the MNR38.
2) 8 -element construction makes the MNR35 ideal for bus line pull-up / pull-down.
3) Convex electrodes

Easy to check the fillet after soldering is finished.
4) Compatible with a wide range of mounting equipment.

Squared corners make it excellent for mounting using image recognition devices.
5) ROHM resistors have approved ISO-9001 certification.

Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it.

## $\bullet$ Ratings

| Item | Conditions | Specifications |  |
| :---: | :---: | :---: | :---: |
| Rated power | Power must be derated according to the power derating curve in Figure 1 when ambient temperature exceeds $70^{\circ} \mathrm{C}$. <br> Fig. 1 | $\begin{array}{r} 0.063 \mathrm{~W}(1 / 16 \mathrm{~W}) \\ \text { at } 70^{\circ} \mathrm{C} \end{array}$ |  |
| Rated voltage | The voltage rating is calculated by the following equation. If the value obtained exceeds the limiting element voltage, the voltage rating is equal to the maximum operating voltage. | Limiting element voltage | 50V |
| Nominal resistance | See Table 1. |  |  |
| Operating temperature |  | $-55^{\circ} \mathrm{C} \sim+125^{\circ} \mathrm{C}$ |  |

Table 1

| Resistance tolerance | Resistance range <br> $(\Omega)$ | Resistance temperature coefficient <br> $\left(\mathrm{ppm} /{ }^{\circ} \mathrm{C}\right)$ |
| :---: | :---: | :---: |
| $\mathrm{J}( \pm 5 \%)$ | $56 \leq \mathrm{R} \leq 100 \mathrm{k} \quad$ (E12) | $\pm 200$ |

[^0] is greater than its rated voltage.

Resistors
-Characteristics

| Item | Guaranteed value | Test conditions (JIS C 5201-1) |
| :---: | :---: | :---: |
|  | Resistor type |  |
| Resistance | $J: \pm 5 \%$ | JIS C 5201-1 4.5 |
| Variation of resistance with temperature | See Table. 1 | JIS C 5201-1 4.8 <br> Measurement : $-55 /+25 /+125^{\circ} \mathrm{C}$ |
| Overload | $\pm(2.0 \%+0.1 \Omega)$ | JIS C 5201-1 4.13 <br> Rated voltage (current) $\times 2.5$, 2 s . <br> Limiting Element Voltage $\times 2$ : 100V |
| Solderability | A new uniform coating of minimum of $95 \%$ of the surface being immersed and no soldering damage. | JIS C 5201-1 4.17 <br> Rosin-Ethanol (25\%WT) <br> Soldering condition : $235 \pm 5^{\circ} \mathrm{C}$ <br> Duration of immersion : $2.0 \pm 0.5 \mathrm{~s}$. |
| Resistance to soldering heat | $\pm(1.0 \%+0.05 \Omega)$ <br> No remarkable abnormality on the appearance. | JIS C 5201-1 4.18 <br> Soldering condition : $260 \pm 5^{\circ} \mathrm{C}$ <br> Duration of immersion : $10 \pm 1 \mathrm{~s}$. |
| Rapid change of temperature | $\pm(1.0 \%+0.05 \Omega)$ | JIS C 5201-1 4.19 <br> Test temp. : $-55^{\circ} \mathrm{C} \sim+125^{\circ} \mathrm{C} 5 \mathrm{cyc}$ |
| Damp heat, steady state | $\pm(3.0 \%+0.1 \Omega)$ | $\begin{aligned} & \text { JIS C 5201-1 } 4.24 \\ & 40^{\circ} \mathrm{C}, 93 \% \text { RH } \\ & \text { Test time : } 1,000 \mathrm{~h} \sim 1,048 \mathrm{~h} \end{aligned}$ |
| Endurance at $70^{\circ} \mathrm{C}$ | $\pm(3.0 \%+0.1 \Omega)$ | JIS C 5201-1 4.25.1 <br> Rated voltage (current), $70^{\circ} \mathrm{C}$ <br> 1.5h : ON - 0.5h : OFF <br> Test time : 1,000h~1,048h |
| Endurance | $\pm(3.0 \%+0.1 \Omega)$ | $\begin{aligned} & \text { JIS C 5201-1 4.25.3 } \\ & 125^{\circ} \mathrm{C} \\ & \text { Test time : } 1,000 \mathrm{~h} \sim 1,048 \mathrm{~h} \end{aligned}$ |
| Resistance to solvent | $\pm(1.0 \%+0.05 \Omega)$ | JIS C 5201-1 4.29 <br> $23 \pm 5^{\circ} \mathrm{C}$, Immersion cleaning, $5 \pm 0.5 \mathrm{~min}$. <br> Solvent : 2-propanol |
| Bend strength of the end face plating | $\pm(1.0 \%+0.05 \Omega)$ <br> Without mechanical damage such as breaks. | JIS C 5201-1 4.33 |

- External dimensions (Units : mm)

- Equivalent circuit
$\mathrm{R} 1=\mathrm{R} 2=\mathrm{R} 3=\mathrm{R} 4=\mathrm{R} 5=\mathrm{R} 6=\mathrm{R} 7=\mathrm{R} 8$


## -Packaging

| Reel |
| :--- | :--- |

## -Product designation



## - Electrical characteristics



Fig. 2 Resistance


Fig. 3 Variation resistance with temperature


Fig. 4 Overload


Fig. 5 Resistance to soldering heat


Fig. 6 Rapid change of temperature


Fig. 7 Damp heat, steady state


Fig. 9 Endurance


Fig. 10 Resistance to solvents

Fig. 8 Endurance (under load in damp environment)

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[^0]:    -Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady state voltage that

