

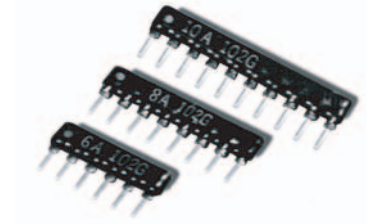


Network Resistors

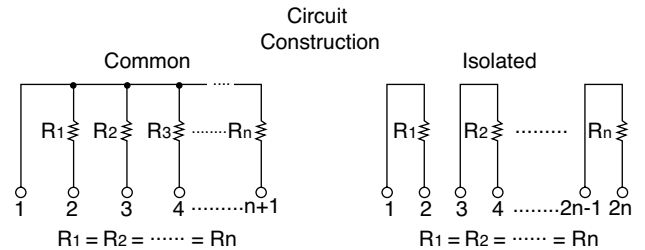
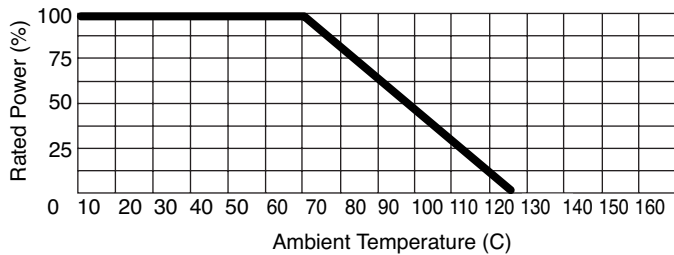
SIP Series

FEATURES

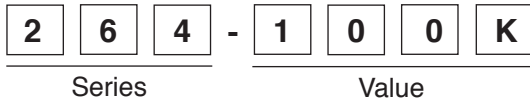
- Temperature Range: -55°C ~ +125°C
- Miniature, high density packaging
- Combinations of different ohmic value are available
- High reliability with RuO₂ paste
- Recommended wash method is alcohol



DERATING CURVE



PART NUMBERING SYSTEM

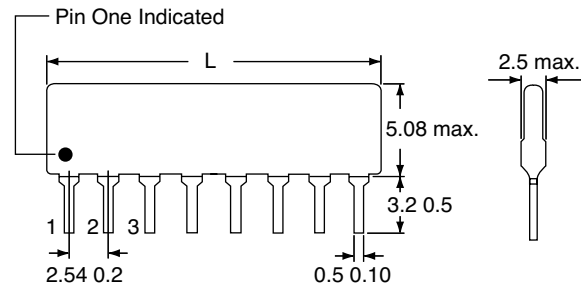


DIMENSIONS

| Series | | Number of Pins | L max. (mm) |
|--------|-------|----------------|-------------|
| Comm. | Isol. | | |
| 264 | 267 | 6 | 15.3 |
| 265 | 268 | 8 | 20.4 |
| 266 | 269 | 10 | 25.4 |

4 ~ 14 pin configurations available special order.

Dimensions: mm



STANDARD STOCKED VALUES (Ω)

| | | | | | | | | | | |
|----|-----|-----|-----|------|------|------|-----|------|------|------|
| 10 | 51 | 150 | 470 | 1.2K | 3.3K | 8.2K | 22K | 68K | 220K | 680K |
| 22 | 56 | 180 | 510 | 1.5K | 3.9K | 10K | 27K | 82K | 270K | 820K |
| 27 | 68 | 220 | 560 | 1.8K | 4.7K | 12K | 33K | 100K | 330K | 1M |
| 33 | 82 | 270 | 680 | 2K | 5.1K | 15K | 39K | 120K | 390K | |
| 39 | 100 | 330 | 820 | 2.2K | 5.6K | 18K | 47K | 150K | 470K | |
| 47 | 120 | 390 | 1K | 2.7K | 6.8K | 20K | 56K | 180K | 560K | |





■ CHARACTERISTICS

| Resistor Network-Sip RNL Series | | | | |
|---------------------------------|--|---|------------------|------------|
| Characteristics | Limits | Test Methods (JIS C 5201-1) | | |
| Temperature Coefficient | ± 200 PPM°C for $50\Omega \sim 1M\Omega$ ± 250 PPM°C for $< 50\Omega$ or $> 1M\Omega$ | -55°C ~ +125°C | | |
| Temperature Cycling | $\Delta R \leq \pm(0.5\% + 0.1\Omega)$ | Step | Temperature | Time |
| | | 1 | -55°C \pm 3°C | 30 mins |
| | | 2 | Room temp. | 10~15 mins |
| | | 3 | +125°C \pm 3°C | 30 mins |
| | | 4 | Room temp. | 10~15 mins |
| * Step 1-4 Continuous 5 Cycles | | | | |
| Dielectric Withstanding Voltage | No evidence of flashover mechanical damage, arcing, or insulation break down. | Resistors shall be clamped in the trough of a 90° metallic V-block and shall be tested at AC potential respectively specified in the above list for 60 +10/-0 seconds | | |
| Short-time Overload | $\pm (0.5\% + 0.1\Omega)$ | Rated Voltage x 2.5 for 5 seconds. | | |
| Resistance to Soldering Heat | $\pm (0.5\% + 0.1\Omega)$ | 350°C \pm 10°C, for 3 seconds. | | |
| Insulation Resistance | 10,000M Ω Min. | 100VDC for 1 minute | | |
| Terminal Strength | $\pm (0.5\% + 0.1\Omega)$ | Tensile: 1Kg, 30 seconds Bending: 500g, 2 times | | |
| Thermal Shock | $\pm (0.5\% + 0.1\Omega)$ | Load V, Room Temp, 30 minute Unload, -55°C, 15 minutes Over 2 hrs. in room temp. before measuring | | |
| Solderability | Covering 95% | 245°C \pm 3°C, 2-3 seconds | | |
| Load Life in Humidity | $\pm (3\% + 0.1\Omega)$ | 40°C, 90-95% RH Rated Voltage for 1,000 hrs. (1.5 hour is "ON", 0.5 hour is "OFF") | | |
| Load Life | $\pm (3\% + 0.1\Omega)$ | 70°C at Rated Voltage for 1,000 hrs. (1.5 hour is "ON", 0.5 hour is "OFF") | | |

