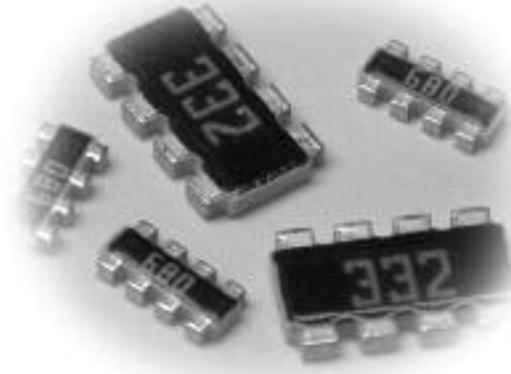


## convex termination with scalloped corners resistor array

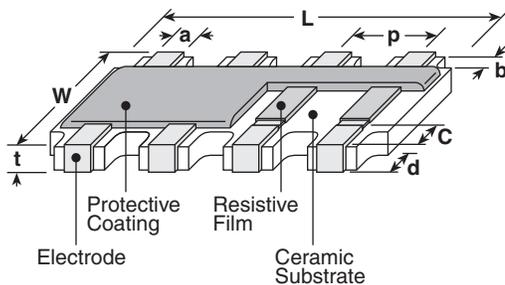


### features

- Manufactured to type RK73 standards
- Less board space than individual chips
- Isolated resistor elements
- Convex terminations with scalloped corners
- Marking: Marked with resistance value
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified: CN1J4A only



### dimensions and construction

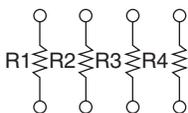


| Size Code | Dimensions inches (mm)  |                         |                        |                          |                         |                         |                         |                |
|-----------|-------------------------|-------------------------|------------------------|--------------------------|-------------------------|-------------------------|-------------------------|----------------|
|           | L                       | W                       | C                      | d                        | t                       | a                       | b                       | p (ref.)       |
| 1J4A      | .126±.006<br>(3.2±0.15) | .063±.006<br>(1.6±0.15) | .012±.008<br>(0.3±0.2) | .010±.004<br>(0.25±0.1)  | .020±.004<br>(0.5±0.1)  | .020±.006<br>(0.5±0.15) | .012±.004<br>(0.3±0.1)  | .031<br>(0.8)  |
| 2B4A      | 0.2±.008<br>(5.1±0.2)   | .122±.008<br>(3.1±0.2)  | .020±.008<br>(0.5±0.2) | .014±.006<br>(0.35±0.15) | .022±.004<br>(0.55±0.1) | .031±.008<br>(0.8±0.2)  | .018±.004<br>(0.45±0.1) | .050<br>(1.27) |

### ordering information

| New Part # | CN | 1J       | 4        | A               | T   | TD   | 101  | J                |
|------------|----|----------|----------|-----------------|---|--|--|------------------|
| Type       |    |          |          | Terminal Convex | Termination Material  | Packaging  | Nominal Resistance   | Tolerance        |
|            |    | 1J<br>2B | Elements |                 | T: Sn<br>(Other termination styles maybe available, please contact factory for options) | TE: 7" embossed plastic<br>TD: 7" paper tape<br>TED: 10" embossed plastic<br>TDD: 10" paper tape | 2 significant figures + 1 multiplier for ±2% & ±5%<br>3 significant figures + 1 multiplier for ±1% | F: ±1%<br>J: ±5% |

### circuit schematic



For further information on packaging, please refer to Appendix A.

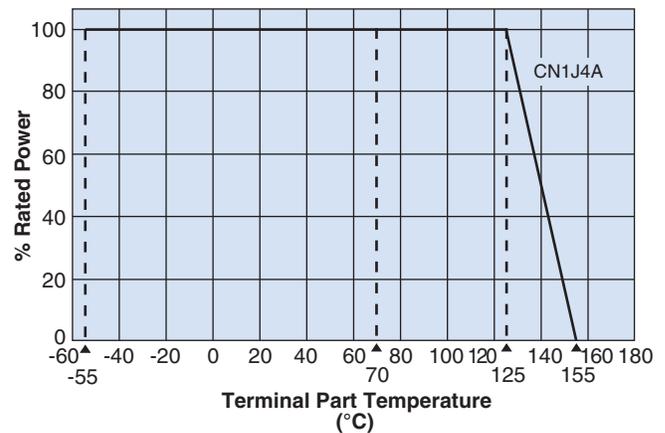
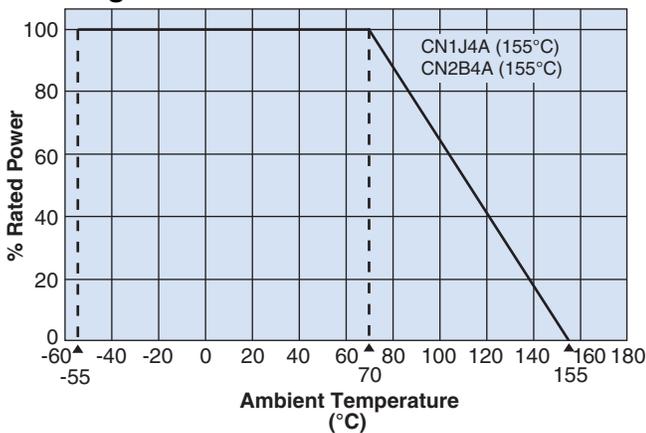
## applications and ratings

| Part Designation | Power Rating @ 70°C (Per Element) | T.C.R. (ppm/°C) Max. |             | Resistance Range  |             | Absolute Maximum Working Voltage | Absolute Maximum Overload Voltage | Rated Terminal Temp. | Rated Ambient Temp. | Operating Temp. Range |
|------------------|-----------------------------------|----------------------|-------------|-------------------|-------------|----------------------------------|-----------------------------------|----------------------|---------------------|-----------------------|
|                  |                                   | E-24, E-96 (F±1%)    | E-24 (J±5%) | E-24, E-96 (F±1%) | E-24 (J±5%) |                                  |                                   |                      |                     |                       |
| CN1J4A           | 1/16W (.063W)                     | ±100:R≥10Ω           | ±200:R≥10Ω  | 10 - 100kΩ        | 1Ω - 1MΩ    | 50V                              | 100V                              | +125°C               | 70°C                | -55°C to +155°C       |
| CN2B4A           | 1/8W (.125W)                      |                      | ±400:R<10Ω  | —                 | 10Ω - 1MΩ   | 200V                             | 400V                              |                      |                     |                       |

\* Note that network resistors generate higher heat rather than single flat chip resistors even under rated power output

## environmental applications

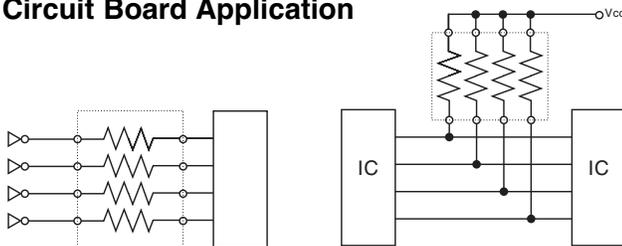
### Derating Curve



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" on the beginning of our catalog before use.

### Circuit Board Application



## Performance Characteristics

| Parameter                   | Requirement Δ R ±%         |         | Test Method  |
|-----------------------------|----------------------------|---------|--|
|                             | Limit                      | Typical |  |
| Resistance                  | Within specified tolerance | —       | 25°C   |
| T.C.R.                      | Within specified T.C.R.    | —       | +25°C/-55°C, +25°C/+125°C  |
| Overload (Short time)       | ±2.0%                      | ±0.25%  | Rated voltage x 2.5 for 5 seconds                                |
| Resistance to Solder Heat   | ±1.0%                      | ±0.75%  | 260°C ± 5°C, 10 seconds ± 1 second                               |
| Rapid Change of Temperature | ±1.0%                      | ±0.5%   | -55°C (30 minutes), +125°C (30 minutes), 5 cycles                |
| Moisture Resistance         | ±5.0%                      | ±1.0%   | 40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle |
| Endurance at 70°C           | ±5.0%                      | ±0.5%   | 70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle              |
| High Temperature Exposure   | ±1.0%                      | ±0.25%  | +155°C, 1000 hours   |