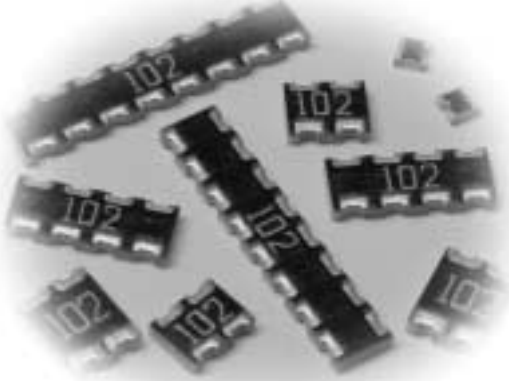


concave termination with square corners resistor array

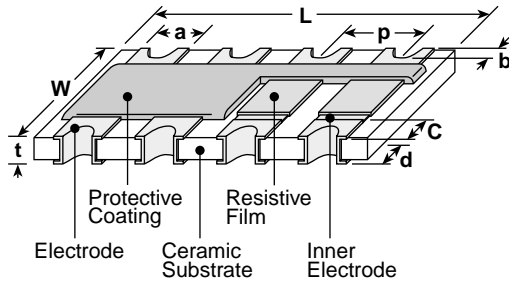
resistor arrays



features

- Manufactured to type RK73 standards
- Less board space than individual chips
- Isolated resistor elements
- Marking: Marked with resistance value

dimensions and construction



| Size Code | Dimensions inches (mm) | | | | | | | |
|-----------|-------------------------|-------------------------|-------------------------|--------------------------|------------------------|-------------------------|----------------|----------------|
| | L | W | C | d | t | a | b | p (ref.) |
| 1J2 | .063±.006 (1.6±0.15) | | | | | | | |
| 1J4 | .126±.008 (3.2±0.2) | .063±.006 (1.6±0.15) | .012±.006 (0.3±0.15) | .016±.006 (0.4±0.15) | | .020±.006 (0.5±0.15) | | .031 (0.8) |
| 1J8 | .252±.008 (6.4±0.2) | | | | | | | |
| 2A2 | 0.1±.008 (2.54±0.2) | | | | | | | |
| 2A4 | 0.2±.008 (5.08±0.2) | .079±.008 (2.0±0.2) | .016±.008 (0.4±0.2) | | .024±.004 (0.6±0.1) | | .006 (0.15) | |
| 2A8 | 0.4±.008 (10.16±0.2) | | | .022±.006 (0.55±0.15) | | .031 (0.8) | | .050 (1.27) |
| 2B2 | 0.1±.008 (2.54±0.2) | | | | | | | |
| 2B4 | 0.2±.008 (5.08±0.2) | .126±.008 (3.2±0.2) | .020±.012 (0.5±0.3) | | | | | |
| 2B8 | 0.4±.008 (10.16±0.2) | | | | | | | |

ordering information

| | | | | | | | |
|------------|------|----------------|-------------|----------------------|--|---|----------------------------|
| Old Part # | CN | 1J | 4 | | T | 101 | J |
| New Part # | CN | 1J | 4 | L | TD | 101 | J |
| | Type | Size | Elements | Termination Material | Packaging | Nominal Resistance | Tolerance |
| | | 1J 2A 2B | 2 4 8 | L: SnPb T: Sn | TE: 7" embossed plastic TD: 7" paper tape TED: 10" embossed plastic TDD: 10" paper tape | 2 significant figures + 1 multiplier for ±2 & ±5% 3 significant figures + 1 multiplier for ±1% | F: ±1% G: ±2% J: ±5% |

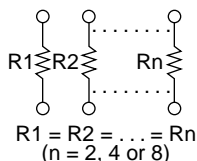
For further information on packaging, please refer to Appendix A.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

concave termination with square corners resistor array

resistor arrays

circuit schematic



applications and ratings (2%, 5% tolerance)

| Part Designation | Power Rating @ 70°C (Per Element) | T.C.R. (ppm/°C) Max. | Resistance Range E-24 | Resistance Tolerance | Absolute Maximum Working Voltage | Maximum Overload Voltage (5 Secs. Max.) | Operating Temperature Range |
|------------------|-----------------------------------|----------------------|-----------------------|----------------------|----------------------------------|---|-----------------------------|
| CN1J | 63mW | ±200 | 10Ω - 1MΩ | G: ±2% J: ±5% | 50V | 100V | -55°C to +150°C |
| CN2A | 100mW | | | | 100V | 200V | |
| CN2B | 125mW | | | | 200V | 400V | |

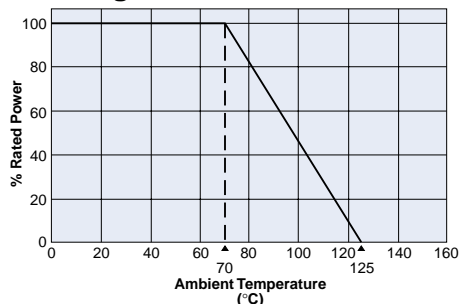
applications and ratings (1% tolerance)

| Part Designation | Power Rating @ 70°C (Per Element) | T.C.R. (ppm/°C) Max. | Resistance Range E-24, E-96 | Resistance Tolerance | Absolute Maximum Working Voltage | Maximum Overload Voltage (5 Secs. Max.) | Operating Temperature Range |
|------------------|-----------------------------------|----------------------|-----------------------------|----------------------|----------------------------------|---|-----------------------------|
| CN1J | 63mW | ±100 | 10Ω - 1MΩ | F: ±1%* | 50V | 100V | -55°C to +125°C |
| CN2A | 100mW | | | | 100V | 200V | |
| CN2B | 125mW | | | | 200V | 400V | |

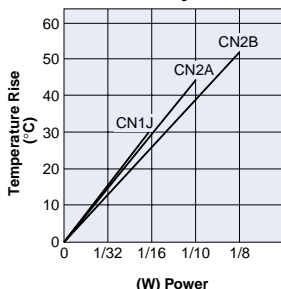
* without CN2A8, CN2B8

environmental applications

Derating Curve



Surface Temperature Rise



Performance Characteristics

| Parameter | Maximum Δ R | Test Method |
|---|------------------|--|
| Thermal Shock | | MIL-STD-202, Method 107, -55°C to +125°C, 5 cycles |
| Low Temperature Operation | ±(1.0% + 0.1Ω) | MIL-R-55342 π 4.7.4, 1 hour @ -55°C followed by 45 minutes of RCWV* |
| High Temperature Exposure | | MIL-R-55342 π 4.7.6, 100 hours @ 125°C |
| Short Time Overload | ±(2.0% + 0.05Ω) | MIL-R-55342 π 4.7.5, 2.5 x RCWV for 5 seconds |
| Resistance to Solder Heat | | MIL-R-55342 π 4.7.7, 260°C for 10 seconds |
| Terminal Strength-Push | ±(1.0% + 0.1Ω) | 1.2 Kg for 1 minute |
| Terminal Strength-Bend | ±(0.5% + 0.05Ω) | 5mm deflection in either direction for 10 seconds |
| Moisture Resistance | | MIL-STD-202, Method 103, 40°C, 90 - 95% RH, 1000 hours |
| Life | ±5.0% | MIL-STD-202, Method 108, 70°C, 1000 hours @ RCWV, 1.5 hr ON, 0.5 hr OFF |
| Pulse | | 2.5 x RCWV, not exceeding max. overload voltage, 1 sec. ON, 25 sec. OFF, 10,000 cycles |
| Temperature Cycling | ±1.0% | 30 min. @ -55°C, 15 min. @ +25°C, 30 min. @ +125°C, 15 min. @ +25°C, 5 cycles |
| Terminal Adhesion | 15 Grams Minimum | Axial pull, one terminal at a time |
| Dielectric Withstanding Voltage CN1J, CN2A, CN2B | 100V, 400V, 400V | 1 minute minimum MIL-STD-202, Method 301 |
| Insulation Resistance | 1,000 MΩ Minimum | — |

* RCWV = Rated Continuous Working Voltage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.