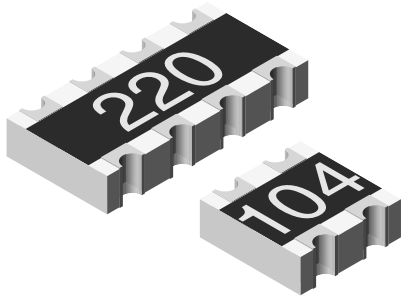


## Thick Film Resistor Array



### FEATURES

- Concave terminal array with square corners
- 8 terminal package with isolated resistors
- Single component reduces board space and component counts
- Automatic placement capability
- Wave and solder paste reflow compatible
- Thick film resistance element
- Solderable wrap around termination
- Nickel barrier for inner electrode protection
- Standard E-24 ( $\pm 2\%$  and  $5\%$ ) and E-96 ( $\pm 1\%$ ) resistance values
- Operating temperature range of  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Consult factory for additional schematics, values, etc

### STANDARD ELECTRICAL SPECIFICATIONS

| MODEL                                | POWER RATING<br>$P_{70^{\circ}\text{C}}$<br>W | CIRCUIT | LIMITING ELEMENT<br>VOLTAGE MAX.<br>$V_{\cong}$ | TEMPERATURE<br>COEFFICIENT<br>ppm/ $^{\circ}\text{C}$ | TOLERANCE<br>% | RESISTANCE<br>RANGE<br>$\Omega$ | E-SERIES |
|--------------------------------------|-----------------------------------------------|---------|-------------------------------------------------|-------------------------------------------------------|----------------|---------------------------------|----------|
| CRA06P                               | 0.0625                                        | 03      | 50                                              | 200                                                   | 2, 5           | 10R-1M0                         | 24       |
| Jumper: Zero-Ohm-Resistor on Request |                                               |         |                                                 | 100                                                   | 1              | 10R-1M0                         | 24-96    |

- Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material
- Operating temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Maximum Working Voltage: 50 volts. Rated continuous working voltage (RCWV) shall be determined from  $\text{RCWV} = \text{square root of Rated Power, Resistance Value or 50 volts whichever is less.}$
- Ask about extended value ranges
- Packaging: according to EIA 481

### TECHNICAL SPECIFICATIONS

| PARAMETER                                 | UNIT                    | CRA06P<br>03 CIRCUIT |
|-------------------------------------------|-------------------------|----------------------|
| Rated Dissipation at $70^{\circ}\text{C}$ | W                       | 0.0625               |
| Limiting Element Voltage <sup>1)</sup>    | $V_{\cong}$             | 50                   |
| Insulation Voltage (1min)                 | $V_{\text{dc/ac peak}}$ | 100                  |
| Category Temperature Range                | $^{\circ}\text{C}$      | $-55 / +150$         |
| Insulation Resistance                     | $\Omega$                | $> 10^{10}$          |

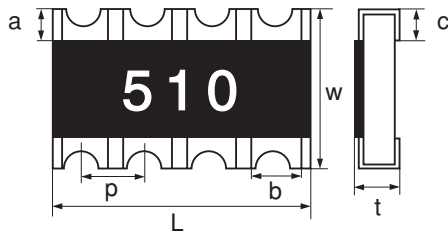
<sup>1)</sup>Rated voltage:  $\sqrt{P \times R}$

### ORDERING INFORMATION

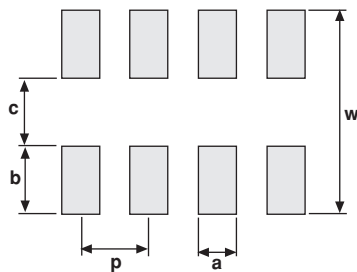
| CRA06P<br>MODEL | 08<br>TERMINAL COUNT | 03<br>CIRCUIT TYPE | 105<br>RESISTANCE VALUE                                                   | J<br>TOLERANCE                                                           | RT1<br>PACKAGING                    |
|-----------------|----------------------|--------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------|
|                 | 08                   | 03 Isolated only.  | First 2 digits are significant figures, the last digit is the multiplier. | J = $\pm 5\%$<br>G = $\pm 2\%$<br>F = $\pm 1\%$<br>Z = 0 $\Omega$ Jumper | Paper tape.<br>5000 piece<br>reels. |

**DIMENSIONS** in inches [millimeters]

4-Resistor Device



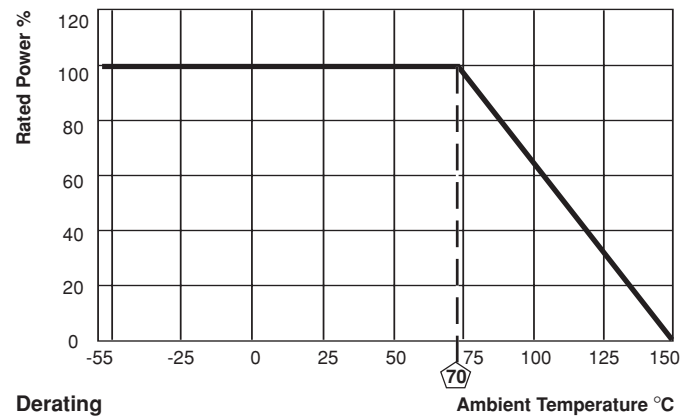
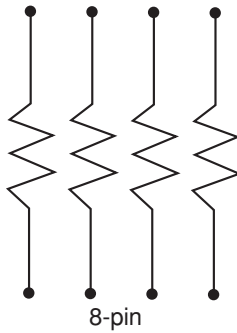
| 8 PIN | DIMENSIONS |        |        |        |      |        |        |
|-------|------------|--------|--------|--------|------|--------|--------|
|       | L          | A      | B      | C      | P    | T      | W      |
| mm    | 3.20       | 0.30   | 0.40   | 0.40   | 0.80 | 0.60   | 1.6    |
| Tol   | ± 0.20     | ± 0.20 | ± 0.15 | ± 0.20 | -    | ± 0.10 | ± 0.15 |



| SOLDER PAD DIMENSIONS [in millimeters] |     |     |     |     |     |
|----------------------------------------|-----|-----|-----|-----|-----|
|                                        | c   | w   | p   | a   | b   |
| WAVE                                   | 0.8 | 2.6 | 0.8 | 0.4 | 0.9 |

**CIRCUIT SCHEMATICS**

03 Circuit CRA06P



| PERFORMANCE                              |                                                     |              |
|------------------------------------------|-----------------------------------------------------|--------------|
| TEST                                     | CONDITIONS OF TEST                                  | TEST RESULTS |
| Endurance Test at 70°C per EIA 575-3.14  | 1000 hours at 70°C, 1.5 hours "ON", 0.5 hours "OFF" | ± 1.0%       |
| Overload per EIA 575-3.6                 | Short time overload                                 | ± 0.5%       |
| Thermal Shock                            | per EIA 575-3.5                                     | ± 0.5%       |
| Moisture Resistance                      | per EIA 575-3.10                                    | ± 1.0%       |
| Resistance to Soldering Heat EIA 575 3.8 | 10 seconds at 260°C solder bath temperature         | ± 1.0%       |
| High Temperature Exposure                | per EIA 575-3.7                                     | ± 1.0%       |
| Low Temperature Operation                | per EIA-/ IS-30A-3.6                                | ± 0.5%       |
| Solderability & Leaching                 | EIA 575-3.12                                        | 95% Coverage |