

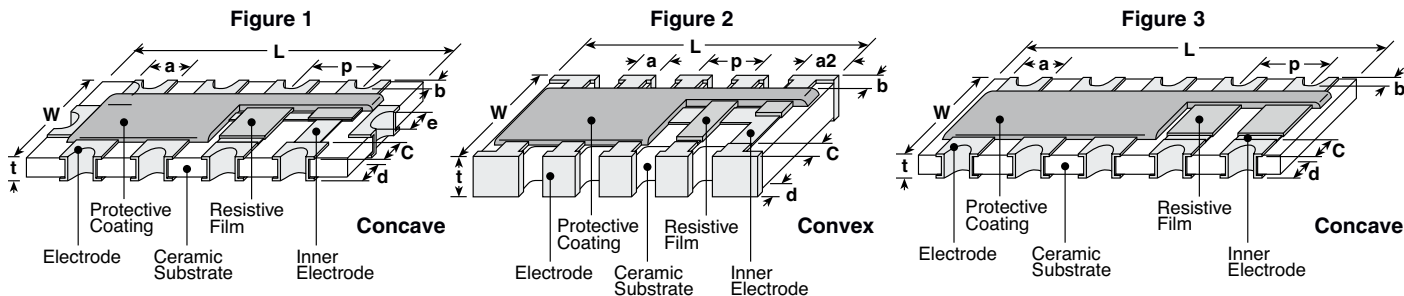
## bussed square corner resistor array

### features

- Manufactured to type RK73 standards
- Concave or convex terminations
- Less board space than individual chips
- Eight bussed resistor elements included in one array
- 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.

### dimensions and construction

| Size Code | Figure No. | Dimensions inches (mm)  |                        |                          |                          |                         |                         |                          |                         |                         |                         |                         |
|-----------|------------|-------------------------|------------------------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|           |            | L                       | W                      | C                        | d                        | e                       | t                       | a (top)                  | a2                      | a (bot.)                | b                       | p                       |
| 1J10VK    | 2          | .126±.004<br>(3.2±0.1)  | .063±.004<br>(1.6±0.1) | .012±.008<br>(0.3±0.2)   | .012±.004<br>(0.3±0.1)   | —                       | .020±.004<br>(0.5±0.1)  | .016±.004<br>(0.4±0.1)   | —                       | .012<br>(0.3)           | —                       | .025<br>(0.64)          |
| 1J10K     | 2          | .126±.004<br>(3.2±0.1)  | .063±.004<br>(1.6±0.1) | .012±.008<br>(0.3±0.2)   | .010±.004<br>(0.25±0.1)  | —                       | .020±.004<br>(0.5±0.1)  | .016±.004<br>(0.4±0.1)   | .022±.004<br>(0.55±0.1) | .012±.008<br>(0.3±0.2)  | —                       | .025<br>(0.64)          |
| 1J10Y     | 1          | .126±.006<br>(3.2±0.15) | .063±.008<br>(1.6±0.2) | .014±.004<br>(0.35±0.1)  | .014±.004<br>(0.35±0.1)  | .016±.006<br>(0.4±0.15) | .022±.004<br>(0.55±0.1) | .013±.006<br>(0.33±0.15) | —                       | .012±.004<br>(0.3±0.1)  | .004<br>(0.1)           | .031<br>(0.8)           |
| 2A10Y     |            | .157±.008<br>(4.0±0.2)  | .083±.008<br>(2.1±0.2) | .010±.008<br>(0.25±0.2)  | .016±.008<br>(0.4±0.2)   | .020±.008<br>(0.5±0.2)  | .024±.004<br>(0.6±0.1)  | .020±.008<br>(0.5±0.2)   | —                       | .016±.006<br>(0.4±0.15) | .006±.004<br>(0.15±0.1) | .006±.004<br>(0.15±0.1) |
| 2B10V     | 3          | .252±.008<br>(6.4±0.2)  | .122±.008<br>(3.1±0.2) | .014±.006<br>(0.35±0.15) | .022±.006<br>(0.55±0.15) | —                       | .024±.004<br>(0.6±0.1)  | .024±.004<br>(0.6±0.1)   | —                       | .024±.006<br>(0.6±0.15) | .006±.004<br>(0.15±0.1) | .005<br>(0.127)         |
| 2B10      |            |                         |                        |                          |                          |                         |                         |                          |                         |                         |                         |                         |



### ordering information

| Convex: | CND | 1J   | 10       | V  | K               | T  | TD                | 103                                  | J         |
|---------|-----|------|----------|--|-----------------|--|-------------------|--------------------------------------|-----------|
| Type    |     | Size | Elements | Circuit Symbol                                 | Terminal Symbol | Termination Material   | Packaging         | Nominal Resistance                   | Tolerance |
|         |     | 1J   | 10       | V: Reverse common electrode<br>Blank: Standard | K: Convex type  | T: Sn<br>(Other termination styles may be available, please contact factory for options) | TD: 7" paper tape | 2 significant figures + 1 multiplier | J: ±5%    |

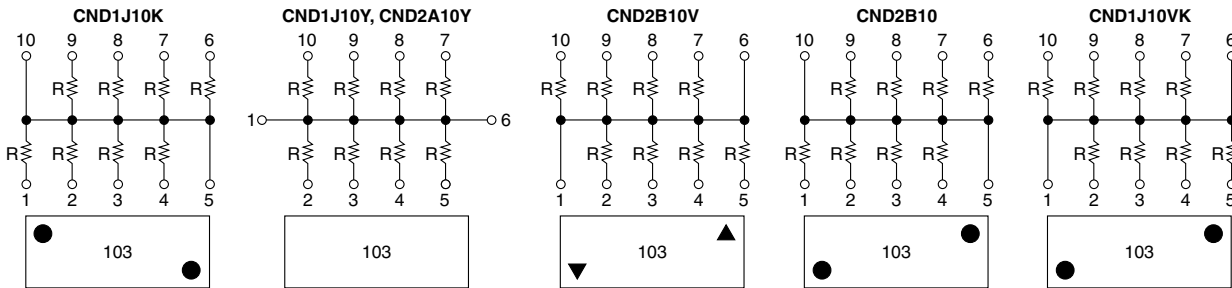
| Concave: | CND | 2B             | 10       | V  | T  | TE   | 103                                  | J         |
|----------|-----|----------------|----------|--|--|--|--------------------------------------|-----------|
| Type     |     | Size           | Elements | Circuit Symbol   | Termination Material   | Packaging                                    | Nominal Resistance                   | Tolerance |
|          |     | 1J<br>2A<br>2B | 10       | V: Reverse common electrode<br>Y: Side common electrode<br>Blank: Standard | T: Sn<br>(Other termination styles may be available, please contact factory for options) | TD: 7" paper tape<br>TE: 7" embossed plastic | 2 significant figures + 1 multiplier | 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.

11/30/14

## circuit schematics and markings



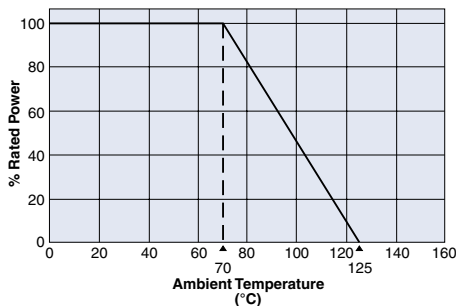
## applications and ratings

| Part Designation | Power Rating @ 70°C (Per Element) | T.C.R. (ppm/°C) Max. | Resistance Range E-12 | Resistance Tolerance | Absolute Maximum Working Voltage | Maximum Overload Voltage (5 Secs. Max.) | Rated Ambient Temperature | Operating Temperature Range |
|------------------|-----------------------------------|----------------------|-----------------------|----------------------|----------------------------------|---|---------------------------|-----------------------------|
| CND1J10VK        | .031                              | ±200                 | 47Ω - 39kΩ            | J: ±5%               | 25V                              | 50V                                     | +70°C                     | -55°C to +125°C             |
| CND1J10K         |                                   |                      | 22Ω - 39kΩ            |                      |                                  |   |                           |                             |
| CND1J10Y         | .05                               |                      | 100Ω - 100kΩ          |                      |                                  |   |                           |                             |
| CND2A10Y         | .063                              |                      |                       |                      |                                  |   |                           |                             |
| CND2B10V         |                                   |                      |                       |                      |                                  |   |                           |                             |
| CND2B10          |                                   |                      |                       |                      |                                  |   |                           |                             |

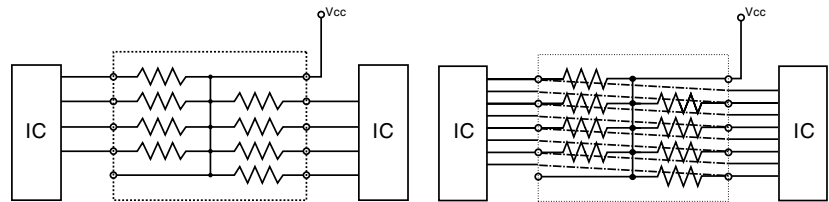
\* Note that network resistors generate higher heat rather than single flat chip resistors even under rated power output

## environmental applications

### Derating Curve



### Circuit Board Application



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.

## Performance Characteristics

| Parameter                   | Requirement $\Delta R \pm 1\%$ |                                  | 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%                          | ±0.5%                            | Rated voltage x 2.5 for 5 seconds                                |
| Resistance to Solder Heat   | ±1.0%                          | Convex: ±0.2%<br>Concave: ±0.25% | 260°C ± 5°C, 10 seconds ± 1 second                               |
| Rapid Change of Temperature | ±1.0%                          | Convex: ±0.1%<br>Concave: ±0.25% | -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%                          | Convex: ±0.5%<br>Concave: ±1%    | 70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle              |
| High Temperature Exposure   | ±1.0%                          | ±0.2%                            | +125°C, 1000 hours   |

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

11/19/14

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Resistor Networks & Arrays](#) category:*

*Click to view products by [KOA Speer](#) manufacturer:*

Other Similar products are found below :

[CS6600552K000B8768](#) [CSC06A0122K0GEJ](#) [M8340105K1002FGD03](#) [M8340105M4700JGD03](#) [M8340106M2002GCD03](#)  
[M8340107K1471FGD03](#) [M8340107K2261FGD03](#) [M8340107M1501GGD03](#) [M8340108K1001FCD03](#) [M8340108K2402GGD03](#)  
[M8340108K3240FGD03](#) [M8340108K3242FGD03](#) [M8340108K3322FCD03](#) [M8340109K2002FCD03](#) [M8340109K4700GGD03](#)  
[M8340109M4701GCD03](#) [M8340109MA010GHD03](#) [EXB-24N121JX](#) [EXB-24N330JX](#) [EXB-24N470JX](#) [744C083101JTR](#) [EXB-U14360JX](#)  
[EXB-U18240JX](#) [744C083270JTR](#) [745C102472JP](#) [745X101103JP](#) [767161104G](#) [MDP1603100KGE04](#) [770101223](#) [MNR04M0APJ471](#)  
[MNR14E0APJ100](#) [MNR18E0APJ102](#) [MNR18E0APJ680](#) [ACAS06S0830339P100](#) [ACAS06S0830343P100](#) [ACAS06S0830344P100](#)  
[RAVF164DJT68K0](#) [RM2012A-102/104-PBVW10](#) [RM2012A-102503-PBVW10](#) [RM2012A-502104-PBVW10](#) [NRSN04I4J220TRF](#)  
[NRSNA4I4J330TRF](#) [8B472TR4](#) [ACAS06S0830341P100](#) [ACAS06S0830342P100](#) [ACAS06S0830345P100](#) [EXB-18N390JX](#) [EXB-U14220JX](#)  
[EXB-U14470JX](#) [EXB-U18330JX](#)