THICK FILM CONCAVE CHIP ARRAYS

**CN SERIES** Resistor Arrays

- Popular self-aligning concave termination pads (convex termination style also available, see SMN series)
- Industry’s widest selection and lowest cost!
- 1Ω to 10MΩ, 1% to 5%, 6 sizes, 5 circuit schematics
- 2 to 8 resistors per array reduces mounting costs
- ZN Series zero ohm jumpers are 1Amp, 50mΩ max

**ZN SERIES** Jumper Arrays

- 10Ω to 1MΩ, 2%, 3%, 4%, 5%, 5 sizes, 5 circuit schematics
- 10 to 100Ω, 5%, 5 sizes, 5 circuit schematics
- 10 to 1MΩ, 1% to 5%, 6 sizes, 5 circuit schematics

RCD’s Series CN resistor and ZN jumper chip arrays not only enable significant PCB space savings, but a sizeable cost savings over the use of individual components. The savings in assembly cost, by placing a single chip instead of multiple chips, more than pays for the cost of these components. Circuits comprised of multiple values are available on a custom basis.

**TYPICAL PERFORMANCE CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temp. Range</td>
<td>-55°C to +155°C</td>
</tr>
<tr>
<td>Short time Overload (2.5X rated W, 5 sec)</td>
<td>±2%+0.1Ω max.</td>
</tr>
<tr>
<td>Resistance to Solder Heat (260°C, 10 sec)</td>
<td>±1%+0.1Ω max.</td>
</tr>
<tr>
<td>Moisture Res. (90-95% RH, 40°C, 100 hrs)</td>
<td>±3%+0.1Ω max.</td>
</tr>
<tr>
<td>High Temp. Exposure (125°C, 100 hrs)</td>
<td>±1%+0.1Ω max.</td>
</tr>
<tr>
<td>Load Life (1000 hrs at rated W)</td>
<td>±3%+0.1Ω max.</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>10,000 Megohm</td>
</tr>
<tr>
<td>Dielectric Withstanding Voltage</td>
<td>400V</td>
</tr>
</tbody>
</table>

**SUGGESTED PAD LAYOUT**

![Diagram of suggested pad layout]

**DERATING**

![Graph showing derating percentage vs. ambient temperature]

**P/N DESIGNATION:**

- Type (CN, ZN)
- Chip Size
- Circuit Configuration: A, B, C, D, E
- Resis.Code 1%: 3 significant figures & multiplier, e.g. 1R00=1Ω, 10R0=10Ω, 100R0=100Ω, 1001=1KΩ, etc.
- Resis.Code 2%: 5 significant figures & multiplier, e.g. 1R01=1Ω, 10R01=10Ω, 100R01=100Ω, 1001=1KΩ, etc.

**Tolerance Code:**

- J=5%(std), G=2%, F=±1%
- Leave blank on ZN zero-ohm jumper arrays (0% max)

**Packaging:**

- B = Bulk, T = Tape & Reel

**Termination:**

- W= Lead-free (standard), Q= Tin/Lead (leave blank if either is acceptable)