Precision High Value Chip Resistors
Type: CHM, CRM
Sizes: 0805, 1206, 1210, 2512

Features:
- Meander structured High Value Chip Resistors in Thickfilm
- Low temperature and voltage dependency
- High Working Voltage up to 3000V
- Suitable for high vacuum applications-no organics

Contact areas:
- CHM: Pt/Ag for conductive glueing and soldering
- CRM: Nickel-barrier/matte tin

Dimensions:

<table>
<thead>
<tr>
<th>Size</th>
<th>L</th>
<th>B</th>
<th>D</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0805</td>
<td>2.00</td>
<td>1.25</td>
<td>0.40</td>
<td>0.2/0.1</td>
</tr>
<tr>
<td>1206</td>
<td>3.20</td>
<td>1.50</td>
<td>0.40</td>
<td>0.3</td>
</tr>
<tr>
<td>1210</td>
<td>3.20</td>
<td>2.50</td>
<td>0.50</td>
<td>0.8</td>
</tr>
<tr>
<td>2512</td>
<td>6.30</td>
<td>3.50</td>
<td>0.60</td>
<td>0.9</td>
</tr>
</tbody>
</table>

L = Length, B = Width, D = Thickness, C = Width of wrap around (in mm)

Packaging:
Bulk in plastic bags – minimum quantity 30 pieces per value
Blistertape acc. to IEC 60286-3 – minimum 500 pieces per value
Reel diameter 180 mm or 330 mm

Ordering Data:
Type – value – tolerance – TCR – packaging - measuring voltage (range 0.1V-100V)
Example: CHM 2512 10G ±10% TCR 100 Tape 180 mm 20V
If no requirements for TCR, measuring voltage and taping are given, the standard value (highest value in table) will be supplied, measuring voltage of 10V is used and packaging is bulk.

Part Number: (Sample CHM2512-100MC-FR is CHM2512 100MΩ±1%/50ppm/Reel)
CHM or CRM<size>-Resistance and TC (if applicable)-Tolerance and Pack
**Precision High Value Chip Resistors**

**Type:** CHM, CRM  
**Sizes:** 0805, 1206, 1210, 2512

**Technical data – depending on size:**

<table>
<thead>
<tr>
<th>Size</th>
<th>0805</th>
<th>1206</th>
<th>1210</th>
<th>2512</th>
</tr>
</thead>
</table>
| Power rating $P_{70}$ (mW)  
($P_{155}$ = 0 mW) | 125 | 250 | 350 | 1000 |
| Working voltage $U_{\text{in}}, U_{\text{eff}}$ (V)  
(trimmed  
untrimmed (Tol. > 5%)) | 200 | 600 | 1000 | 2000 |
| Ranges / Tolerances /  
TCR / VCR | 0.5/1/2/5/10% | 0.5/1/2/5/10% | 0.5/1/2/5/10% | 0.5/1/2/5/10% |
| 1) TC25/50: Temperature range +25°C...+85°C  
2) VCR measured between 10V and 100V  
Lower values of tolerance, TCR and VCR on request and agreement  
Special versions with Au-contacts on request  
**Technical data – general:**

<table>
<thead>
<tr>
<th>Temperature range</th>
<th>-55°C ... +155°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climatic category acc. to DIN EN 60068-1</td>
<td>55/155/56</td>
</tr>
<tr>
<td>Solderability acc DIN EN 60068-2-58 (lead-free and lead-containing)</td>
<td>250°C 3s</td>
</tr>
<tr>
<td>Max. soldering temperature acc. DIN EN 60068-2-58</td>
<td>260°C 10s</td>
</tr>
<tr>
<td>Long term stability</td>
<td>&lt;1G</td>
</tr>
<tr>
<td>Storage 125°C/1000h</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Max voltage/1000h</td>
<td>&lt;0.5%</td>
</tr>
</tbody>
</table>

3) Up to 6 months after shipment resp. at storage in Nitrogen

Data not specified according CECC 40401-802  
Issue 05-2006