### Features
- Current sensing resistors
- High accuracy
- Low resistance (100mΩ or under)

### Specifications
- Products meet EU-RoHS requirements.
- Used in applications requiring high accuracy and low resistance values.

### Type Designations
- UR73D: Direct Face-down
- UR73: Rectangular Flat Chip Resistor

### Dimensions
<table>
<thead>
<tr>
<th>Type</th>
<th>L (mm)</th>
<th>W (mm)</th>
<th>C (mm)</th>
<th>d (mm)</th>
<th>t (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR73D 1E</td>
<td>0402</td>
<td>0.65</td>
<td>0.30</td>
<td>0.15</td>
<td>0.02</td>
<td>0.005</td>
</tr>
<tr>
<td></td>
<td>0603</td>
<td>1.27</td>
<td>0.63</td>
<td>0.31</td>
<td>0.18</td>
<td>0.013</td>
</tr>
</tbody>
</table>

### Operating Temp.
- Range: -55°C to +125°C

### Construction
- [Diagram of UR73 Type and UR73D Type]

### Low Resistance Flat Chip Resistors
- Ideal for power supplies, motor circuits, etc.

### Notes
- Specifications may be changed at any time without notice. Please confirm technical specifications before ordering.
- This product is designed for specific applications such as automotive, medical equipment, and aerospace equipment.

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**Resources:**
- Reference Standards: IEC 60115-8, JIS C 5201-8
- Contact: www.koaglobal.com

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**Additional Information:**
- Low resistance (100mΩ or under) and high accuracy resistors are available. Please inquire for further details.
- Specifications may be changed without notice. Please confirm the latest specifications before ordering.
在环境温度70℃以上使用时, 按照上述图示使用差特性曲线，减少设定功率。
For resistors operated at an ambient temperature of 70℃ or above, a power rating shall be derated in accordance with the above derating curve.

超过上述端子部温度使用时，请根据负荷差特性曲线减少设定功率后使用。
※关于使用方法，请参照第1页的“端子部温度负荷差特性曲线”的说明。
For resistors operated terminal part temperature of described for each size or above, a power rating shall be derated in accordance with derating curve.
※Please refer to “Introduction of the derating curves based on the terminal part temperature” on the beginning of our catalog before use.

表面温度上升，由于是用本公司测定条件测得的，根据使用状况，使用条件不同，数值也会不同。
Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

■ 使用注意事项 Precautions for Use
● 片状电阻器的基材是氧化铝，由于和安装配基板的热膨胀系数不同，在反复提供热循环等热应力时，接合部的焊接（焊接部）有时会发生裂纹。特别是大型尺寸2H/3A，由于热膨胀大，而且自身发热大，环境温度的变动有大的反复和负载周期后反复时，需要注意裂纹的发生。用环氧树脂粘合剂电阻（FR-4）作一般性热循环试验，在使用温度范围的上下限范围内，1E～2B的类型，不容易发生裂纹，而2H/3A型，则有易于发生裂纹的倾向。由于热应力而发生的裂纹，取决于安装的焊接区的大小，焊接区、安装基板的散热等性等。因此，在环境温度有大的变化和负载 ON / OFF使用条件时，应充分注意后进行设计。
● 在50mΩ以下的电阻值中，根据焊接部的大小和连续焊接的量，焊接后的电阻值会有变动，应事先在确认电阻值降低使用的影响后，进行设备设计。
● The substrate of chip resistors is alumina. Cracks may occur at the connection of solder (solder fillet portion) due to the difference of the coefficient of thermal expansion from a mounting board when heat stress like heat cycle, etc. are repeatedly given to them. Care should be taken to the occurrence of the cracks when the change in ambient temperature or ON/OFF of load is repeated, especially when large types of 2H/3A which have large thermal expansion and also self-heating. By general temperature cycle test using glass-epoxy (FR-4) boards under the maximum/minimum temperatures of operating temperature range, the crack does not occur easily in the types of 1E～2B, but the crack tends to occur in the types of 2H/3A. The occurrence of the crack by heat stress may be influenced by the size of a pad, solder volume, heat radiation of mounting board etc., so please pay careful attention to designing when a big change in ambient temperature and conditions for use like ON/OFF of load can be assumed.
● In the resistance values of 50mΩ or under, the resistance value after soldering may change depending on the size of pad pattern or solder amount. Make sure the effect of decline/increase of resistance value before designing.