Coating color : Black (1F, 1H),
Blue (1E, 1J, 2A, 2B, 2E, W2H, W3A, W3A2)

Features
- Small size and light weight.
- Excellent heat resistance and weather resistance are ensured by the use of metal glaze thick film.
- High stability and high reliability with the triple-layer structure of electrode.
- Applicable to various kinds of automatic mounters for taping, etc.
- Suitable for both flow and reflow solderings.
- Products with lead free termination meet EU-RoHS requirements.
- EU-RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

Reference Standards
IEC 60115-8
JIS C 5201-8
IEC 60115-8

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

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**Precautions for Use**

- 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 maximum applicable voltage is equal to the max. overload voltage. Please ask us about the resistance characteristic of continuous applied pulse. The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

- For resistors operated at an ambient temperature of 78°C or higher, the power shall be derated in accordance with the above derating curve.

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

- 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.

- Care should be taken that RK73H1F may be damaged when static electricity occurs and is applied in the equipment.

**Derating Curve**

For resistors operated at an ambient temperature of 78°C or higher, the power shall be derated in accordance with the above derating curve.

**Performance**

<table>
<thead>
<tr>
<th>Test Items</th>
<th>Performance Requirements</th>
<th>ΔR.s (% of T.C.R)</th>
<th>Test Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance</td>
<td>Within specified tolerance</td>
<td>—</td>
<td>25°C</td>
</tr>
<tr>
<td>T.C.R.</td>
<td>Within specified T.C.R</td>
<td>—</td>
<td>+25°C/-55°C and +25°C/+125°C</td>
</tr>
<tr>
<td>Overload (Short time)</td>
<td>2</td>
<td>1: 1F, 0.5: others</td>
<td>Rated voltage × 2.5 for 5s (1E, 2B, W3A2 : Rated voltage × 2 for 5s)</td>
</tr>
<tr>
<td>Resistance to soldering heat</td>
<td>1: 1F〜W3A (R&lt;10Ω, R&gt;1MΩ)</td>
<td>0.5: 1F〜W3A (R&lt;10Ω, R&gt;1MΩ)</td>
<td>260°C±5°C, 10s±1s</td>
</tr>
<tr>
<td>Rapid change of temperature</td>
<td>1: 1F, 0.5: others</td>
<td>0.5: 1F, 0.3: others</td>
<td>−55°C (30min.)/ +25°C (30min.) 100 cycles</td>
</tr>
<tr>
<td>Moisture resistance</td>
<td>2: 1J, 2A, 2B, 3: others</td>
<td>0.75: 1J, 2A, 2B, 1: others</td>
<td>40°C±2°C, 90%〜95%RH, 1000h 1.5h ON/0.5h OFF cycle</td>
</tr>
<tr>
<td>Endurance at 70°C or rated terminal part temperature</td>
<td>2: 1J, 2A, 2B, 3: others</td>
<td>0.75: 1J, 2A, 2B, 1: others</td>
<td>70°C±2°C or rated terminal part temperature ±2°C 1000h 1.5h ON/0.5h OFF cycle</td>
</tr>
<tr>
<td>High temperature exposure</td>
<td>1</td>
<td>0.5: 1F, 0.3: others</td>
<td>+125°C, 1000h: 1F</td>
</tr>
</tbody>
</table>

Care should be taken that RK73H1F may be damaged when static electricity occurs and is applied in the equipment.

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Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

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