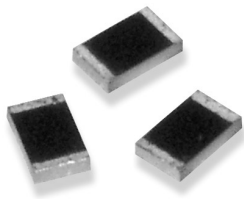


## SMD High Value Resistors

### Type RH73 Series

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The RH73 Series is a stable high value chip resistor range offering various power dissipation relating to chip size. Tyco is pleased to offer this innovative range of chip resistors up to 100 Gig. The RH73 series is suitable for flow and reflow soldering. It has a thick film resistor element and three layers of terminal material to ensure high reliability. It is attractively priced and available on 7" reels with 1000 pieces per reel.

#### Key Features

- Values up to 100 Gig Ohms
- Custom Designs Possible
- Choice of Packages
- Supplied on Reels of 1000
- Wide Tolerances / TCRs
- Available via Distribution

#### Characteristics - Electrical

| Type    | T.C.R's Available per Resistance Value (ppm/°C) |             |           |            |             |
|---------|-------------------------------------------------|-------------|-----------|------------|-------------|
|         | 10M - 100M                                      | 100M1 - 1G0 | 1G1 - 10G | 10G1 - 33G | 33G1 - 100G |
| RH73 1E | 100/250                                         | 500/1000    | 1000/2000 | -          | -           |
| RH73 1J | 100/250                                         | 250/500     | 500/1000  | 1000/2000  | -           |
| RH73 2A | 50/100                                          | 250/500     | 500/1000  | 1000/2000  | 2000/3000   |
| RH73 2B | 50/100                                          | 250/500     | 500/1000  | 1000/2000  | 2000/3000   |
| RH73 2E | 50/100                                          | 100/250     | 250/500   | 250/500    | 500/1000    |
| RH73 3A | 50/100                                          | 100/250     | 250/500   | 250/500    | 500/1000    |

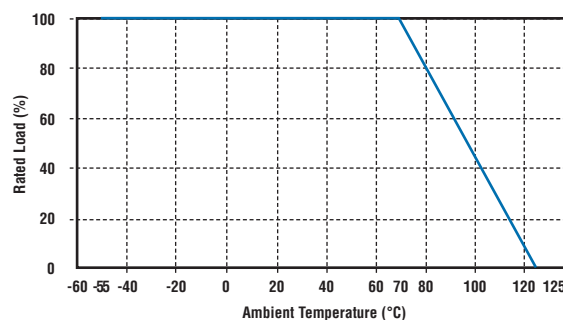
| Type    | Tolerances Available per Resistance Value (%) |             |           |            |             |
|---------|-----------------------------------------------|-------------|-----------|------------|-------------|
|         | 10M - 100M                                    | 100M1 - 1G0 | 1G1 - 10G | 10G1 - 33G | 33G1 - 100G |
| RH73 1E | 5/10/20                                       | 5/10/20     | 10/20/30  | -          | -           |
| RH73 1J | 5/10/20                                       | 5/10/20     | 10/20/30  | 10/20/30   | -           |
| RH73 2A | 2/5/10/20                                     | 5/10/20     | 5/10/20   | 10/20/30   | 10/20/30    |
| RH73 2B | 2/5/10/20                                     | 5/10/20     | 5/10/20   | 5/10/20    | 10/20/30    |
| RH73 2E | 2/5/10/20                                     | 5/10/20     | 5/10/20   | 5/10/20    | 5/10/20     |
| RH73 3A | 2/5/10/20                                     | 5/10/20     | 5/10/20   | 5/10/20    | 5/10/20     |

| Type    | Power Rating @ 70°C | Max. Working Voltage |
|---------|---------------------|----------------------|
| RH73 1E | 0.050 W             | 30V                  |
| RH73 1J | 0.075 W             | 75V                  |
| RH73 2A | 0.125 W             | 100V                 |
| RH73 2B | 0.250W              | 200V                 |
| RH73 2E | 0.350W              | 300V                 |
| RH73 3A | 0.600W              | 1000V                |

| Long Term Stability     | <100M     | <1G0      | 1G - 100G |
|-------------------------|-----------|-----------|-----------|
| Storage 125°C/1000Hrs   | ΔR <0.15% | ΔR <0.35% | ΔR <0.35% |
| Maximum Voltage/1000Hrs | ΔR <0.35% | ΔR <0.50% | ΔR <0.50% |

|                         |                     |
|-------------------------|---------------------|
| Temperature Range       | -55°C to +125°C     |
| Climatic Category       | 55/125/56           |
| Solderability           | 235°C for 5 Seconds |
| Maximum Soldering Temp. | 260°C for 5 Seconds |

#### Power Derating Curve



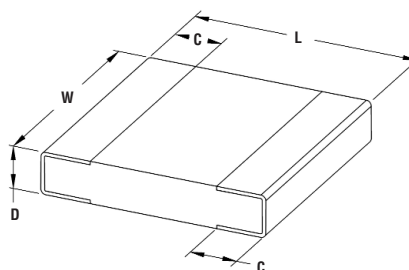
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve right.

Values above 100 Meg ohms do not have glaze coat. This is to avoid reaction with a Galvanic coating on the terminals. This does not effect the the resistor performance.

## SMD High Value Resistors

### Type RH73 Series

#### Dimensions



| Part Number | L                                      | W                                      | C                                      | D                                      |
|-------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| RH73 1E     | 1.04±0.05                              | 0.50±0.05                              | 0.10±0.05                              | 0.30±0.05                              |
| RH73 1J     | 1.50 <sup>+0.15</sup> <sub>-0.05</sub> | 0.80 <sup>+0.15</sup> <sub>-0.05</sub> | 0.20 <sup>+0.10</sup> <sub>-0.05</sub> | 0.40 <sup>+0.10</sup> <sub>-0.05</sub> |
| RH73 2A     | 2.00 <sup>+0.15</sup> <sub>-0.05</sub> | 1.20 <sup>+0.20</sup> <sub>-0.05</sub> | 0.30 <sup>+0.20</sup> <sub>-0.05</sub> | 0.40 <sup>+0.10</sup> <sub>-0.05</sub> |
| RH73 2B     | 3.20 <sup>+0.15</sup> <sub>-0.05</sub> | 1.50 <sup>+0.20</sup> <sub>-0.05</sub> | 0.30 <sup>+0.20</sup> <sub>-0.05</sub> | 0.40 <sup>+0.10</sup> <sub>-0.05</sub> |
| RH73 2E     | 3.20 <sup>+0.15</sup> <sub>-0.05</sub> | 2.50 <sup>+0.20</sup> <sub>-0.05</sub> | 0.80 ±0.20                             | 0.50 <sup>+0.10</sup> <sub>-0.05</sub> |
| RH73 3A     | 6.30 <sup>+0.15</sup> <sub>-0.05</sub> | 3.50 <sup>+0.20</sup> <sub>-0.05</sub> | 0.80 ±0.20                             | 0.60 <sup>+0.10</sup> <sub>-0.05</sub> |

#### How to Order

| RH73                    | H                 | 2A                | 10M                                     | M         | TN                          |
|-------------------------|-------------------|-------------------|-----------------------------------------|-----------|-----------------------------|
| Common Part             | Temp. Coefficient | Package Size      | Resistance Value                        | Tolerance | Packaging                   |
| RH73 -<br>Standard Part | G - 50ppm/°C      | 1E - 04:02        | 1 Meg Ohm<br>(1000000 ohms)<br>1M0      | G - 2%    | TN - 1000 Reel<br>(Plastic) |
|                         | H - 100ppm/°C     | 1J - 06:03        |                                         | J - 5%    |                             |
|                         | U - 250ppm/°C     | *2A - 08:05       | 10 Meg Ohm<br>(10000000 ohms)<br>10M    | K - 10%   |                             |
|                         | W - 500ppm/°C     | 2B - 12:06        | 100 Meg Ohm<br>(100000000 ohms)<br>100M | M - 20%   |                             |
|                         | X - 1000ppm/°C    | 2E - 12:10        |                                         | N - 30%   |                             |
|                         | Y - 2000ppm/°C    | 3A - 25:12        | 1 Gig Ohm<br>(1000000000 ohms)<br>1G0   |           |                             |
|                         | Z - 3000ppm/°C    | * - Standard Part |                                         |           |                             |

If no requirements for TCR, VCR and Voltage are given,  
the standard values (higher values in table) will be supplied.  
10V is used for measuring.

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