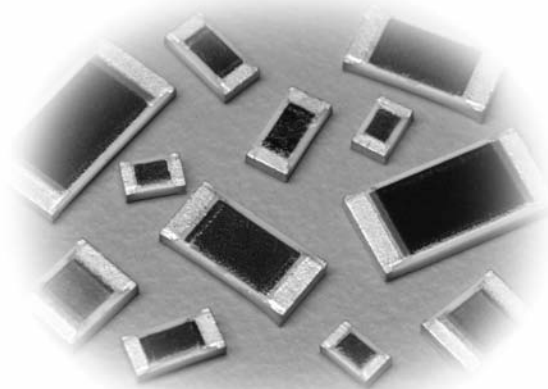
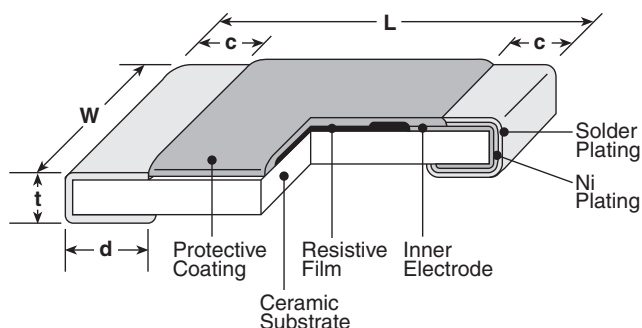




## features

- Same quality thick film construction as type RM
- Glass passivated, supplied without protective coat
- Anti-leaching nickel barrier terminations
- Trimmable in circuit 2x original value
- Replaces trimmer in critical circuit adjustments
- Marking: Black body with no marking
- Products with lead-free terminations meet RoHS requirements. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC

## dimensions and construction



| Type<br>(Inch Size Code) | Dimensions inches (mm)                                                             |                         |                        |                                                                                    |                          |
|--------------------------|------------------------------------------------------------------------------------|-------------------------|------------------------|------------------------------------------------------------------------------------|--------------------------|
|                          | L                                                                                  | W                       | c                      | d                                                                                  | t                        |
| <b>1E</b><br>(0402)      | .039 <sup>+0.004</sup> <sub>-.002</sub><br>(1.0 <sup>+0.1</sup> <sub>-0.05</sub> ) | .02±.002<br>(0.5±0.05)  | .008±.004<br>(0.2±0.1) | .01 <sup>+0.002</sup> <sub>-.004</sub><br>(0.25 <sup>+0.05</sup> <sub>-0.1</sub> ) | .013±.002<br>(0.33±0.05) |
| <b>1J</b><br>(0603)      | .063±.008<br>(1.6±0.2)                                                             | .031±.004<br>(0.8±0.1)  | .012±.004<br>(0.3±0.1) | .012±.004<br>(0.3±0.1)                                                             | .018±.004<br>(0.45±0.1)  |
| <b>2A</b><br>(0805)      | .079±.008<br>(2.0±0.2)                                                             | .049±.004<br>(1.25±0.1) | .016±.008<br>(0.4±0.2) | .012 <sup>+0.008</sup> <sub>-.004</sub><br>(0.3 <sup>+0.2</sup> <sub>-0.1</sub> )  | .02±.004<br>(0.5±0.1)    |
| <b>2B</b><br>(1206)      | .126±.008<br>(3.2±0.2)                                                             | .063±.008<br>(1.6±0.2)  | .02±.012<br>(0.5±0.3)  | .016 <sup>+0.008</sup> <sub>-.004</sub><br>(0.4 <sup>+0.2</sup> <sub>-0.1</sub> )  | .024±.004<br>(0.6±0.1)   |
| <b>2E</b><br>(1210)      |                                                                                    | .102±.008<br>(2.6±0.2)  |                        |                                                                                    |                          |
| <b>2H</b><br>(2010)      |                                                                                    | .098±.008<br>(2.5±0.2)  |                        | .025±.005<br>(0.65±0.15)                                                           |                          |
| <b>3A</b><br>(2512)      | .248±.008<br>(6.3±0.2)                                                             | .122±.008<br>(3.1±0.2)  |                        |                                                                                    |                          |

## ordering information

| New Part # | RK73N | 2B                                     | T                                                                                                   | TD                                                                                                                                                                                                                                                                    | 102                                  | W                                                |
|------------|-------|----------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|
| Type       |       | Size                                   | Termination Material                                                                                | Packaging                                                                                                                                                                                                                                                             | Nominal Resistance                   | Tolerance                                        |
|            |       | 1E<br>1J<br>2A<br>2B<br>2E<br>2H<br>3A | T: Sn<br>L: SnPb<br>(Other termination styles may be available, please contact factory for options) | TP: 2mm pitch punched paper (0402, 0603 & 0805)<br>TD: 7" paper tape (0603, 0805, 1206 & 1210)<br>TDD: 10" paper tape (0603, 0805, 1206 & 1210)<br>TE: 7" punched plastic (0805, 1206, 1210, 2010 & 2512)<br>TED: 10" punched plastic (0805, 1206, 1210, 2010 & 2512) | 2 significant figures + 1 multiplier | N: 0 ~ -20%<br>P: 0 ~ -30%<br>W: ±10%<br>M: ±20% |

For further information on packaging, please refer to Appendix A.

### applications and ratings

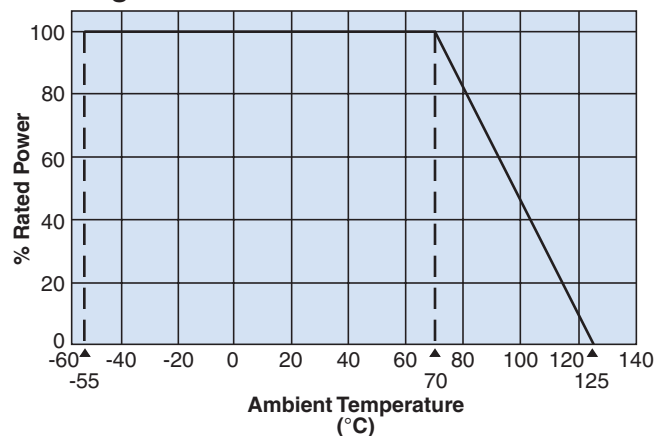
| Part Designation* | Power Rating @ 70°C | T.C.R. (ppm/°C) Max. | Resistance Range E-12** | Resistance Tolerance                             | Absolute Maximum Working Voltage | Absolute Maximum Overload Voltage | Operating Temperature Range |  |
|-------------------|---------------------|----------------------|-------------------------|--------------------------------------------------|----------------------------------|-----------------------------------|-----------------------------|--|
| RK73N1E (0402)    | 1/16W (.063W)       | ±200                 | 10Ω - 1MΩ               | N: 0 ~ -20%<br>P: 0 ~ -30%<br>W: ±10%<br>M: ±20% | 50V                              | 100V                              | -55°C to +125°C             |  |
| RK73N1J (0603)    | 1/10W (.10W)        |                      |                         |                                                  |                                  |                                   |                             |  |
| RK73N2A (0805)    | 1/8W (.125W)        |                      |                         |                                                  | 100V                             | 200V                              |                             |  |
| RK73N2B (1206)    | 1/4W (.25W)         |                      |                         |                                                  | 200V                             | 400V                              |                             |  |
| RK73N2E (1210)    | 1/3W (.33W)         |                      |                         |                                                  |                                  |                                   |                             |  |
| RK73N2H (2010)    | 3/4W (.75W)         |                      |                         |                                                  |                                  |                                   |                             |  |
| RK73N3A (2512)    | 1W                  |                      |                         |                                                  |                                  |                                   |                             |  |

\* Parenthesis indicate EIA package size codes.

\*\* See Appendix D for available decade values.

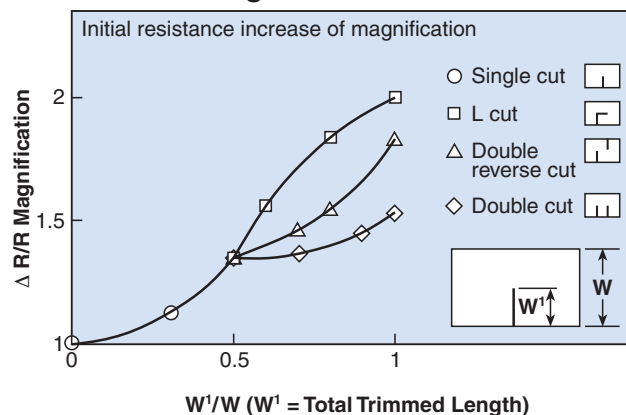
### environmental applications

#### Derating Curve



For complete environmental specifications, please refer to pages 30-31.

#### Resistance Rising Rate



The Trimmable chip resistor is suitable for the circuit demanding high stability as a replacement of variable resistors for adjusting circuit. Please note that customers need laser trimming equipment.

Trimming by laser increases the initial resistance. Amount of resistance increase is dependent on the laser cut configuration as shown.

W' must not exceed 1/2W to ensure power rating of the unit.