

**Surface Mount Thick Film Resistors**  
**RK73 Series, Specifications**



**Part Number Determination**

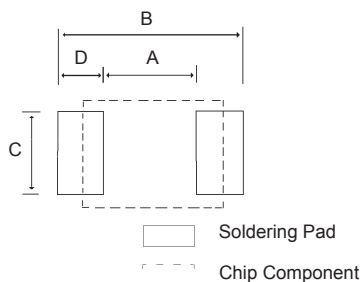
| RK73B2BLTD102J                                 |                                                                                      |                                                                                                             |                                                                                                                                                                                                      |                                                                                                                                             |                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| RK73B                                          | 2B                                                                                   | L                                                                                                           | TD                                                                                                                                                                                                   | 102                                                                                                                                         | J                                                      |
| SERIES                                         | SIZE                                                                                 | TERMINATION                                                                                                 | PACKAGING                                                                                                                                                                                            | RESISTANCE                                                                                                                                  | TOLERANCE                                              |
| RK73B=Genl Purp<br>2% / 5% Thick Film Resistor | 1H=0201<br>1E=0402<br>1J=0603<br>2A=0805<br>2B=1206<br>2E=1210<br>2H=2010<br>3A=2512 | X=AgPd**<br>G=Au*<br>L=SnPb<br>(Tin/Lead)<br>T=Sn<br>(100% Tin)<br><br>**=1J, 2A, 2B only<br>*=1E & 1J only | TB=2mm pitch, pressed paper (0201 only)<br>TP=2mm pitch, punch paper<br>(0402 & 0603 only)<br>TD=7" paper tape<br>TDD=10" paper tape<br>TE=7" embossed plastic tape<br>TED=10" embossed plastic tape | For 2%/5%=<br>2 significant digits +<br>1 multiplier<br><br>For 0.5%/1%=<br>3 significant digits +<br>1 multiplier<br><br>For jumper =blank | D=±0.5%<br>F=±1%<br>G=±2%<br>J=±5%<br>For Jumper=Blank |

**Electrical Characteristics**

| Series                                 | RK73B1H<br>RK73Z<br>(0201) | RK73H1E<br>RK73B1E<br>RK73Z<br>(0402) |            |             | RK73H1J<br>RK73B1J<br>RK73Z<br>(0603) |           |                      | RK73H2A<br>RK73B2A<br>RK73Z<br>(0805) |           |                               | RK73H2B<br>RK73B2B<br>RK73Z<br>(1206) |                |                               | RK73H2E<br>RK73B2E<br>RK73Z<br>(1210) |                |                               | RK73B2H<br>RK73Z<br>(2010) |                      | RK73B3A<br>RK73Z<br>(2512) |                      |
|----------------------------------------|----------------------------|---------------------------------------|------------|-------------|---------------------------------------|-----------|----------------------|---------------------------------------|-----------|-------------------------------|---------------------------------------|----------------|-------------------------------|---------------------------------------|----------------|-------------------------------|----------------------------|----------------------|----------------------------|----------------------|
| Power Rating @<br>70°C                 | 50mW                       | 63mW                                  |            |             | 100mW                                 |           |                      | 125mW                                 |           |                               | 250mW                                 |                |                               | 500mW<br>330mW                        |                |                               | 750mW                      |                      | 1000mW                     |                      |
| T.C.R.<br>(ppm/°C)<br>Max.             | 200                        | 100                                   | 200        | 400         | 100                                   | 200       | 400                  | 100                                   | 200       | 400                           | 100                                   | 200            | 400                           | 100                                   | 200            | 400                           | 200                        | 400                  | 200                        | 400                  |
| Resistance<br>Range<br>E24 5%          | 1Ω-10MΩ                    |                                       | 10-<br>10M | 1.0-<br>9.1 |                                       | 10-<br>1M | 9.1,<br>1.1M-<br>10M |                                       | 10-<br>1M | 9.1,<br>1.1M-<br>10M          |                                       | 10-<br>5.6M    | 9.1,<br>6.2M-<br>22M          |                                       | 10-<br>5.6M    | 9.1,<br>6.2M-<br>10M          | 10-<br>5.6M                | 9.1,<br>6.2M-<br>10M | 10-<br>5.6M                | 9.1,<br>6.2M-<br>10M |
| Resistance<br>Range<br>E96 1%          |                            | 10-<br>1M                             |            |             | 10-<br>1M                             |           | 1.0-<br>9.76         | 10-<br>1M                             |           | 1.0-<br>9.76,<br>1.0M-<br>10M | 10-<br>1M                             | 1.02M<br>-5.6M | 1.0-<br>9.76,<br>5.6M<br>-10M | 10-<br>1M                             | 1.02M<br>-5.6M | 1.0-<br>9.76,<br>5.6M-<br>10M |                            |                      |                            |                      |
| Absolute<br>Max<br>Working<br>Volt     | 25V                        | 50V                                   |            |             |                                       |           |                      | 150V                                  |           |                               | 200V                                  |                |                               |                                       |                |                               |                            |                      |                            |                      |
| Absolute Max<br>Overload Volt          | 50V                        | 100V                                  |            |             |                                       |           |                      | 300V                                  |           |                               | 400V                                  |                |                               |                                       |                |                               |                            |                      |                            |                      |
| Operating Temp<br>Range                | -55 ~ +125°C               | -55 ~ +155°C                          |            |             |                                       |           |                      |                                       |           |                               |                                       |                |                               |                                       |                |                               |                            |                      |                            |                      |
| Zero ohm Jumper                        |                            |                                       |            |             |                                       |           |                      |                                       |           |                               |                                       |                |                               |                                       |                |                               |                            |                      |                            |                      |
| Max<br>Continuous<br>Current @<br>70°C | 0.5A                       | 1.0 Amps                              |            |             |                                       |           |                      | 2.0 Amps                              |           |                               |                                       |                |                               |                                       |                |                               |                            |                      |                            |                      |
| Max Surge<br>Current @<br>70°C         | 1.0A                       | 2 Amp Max for < 1 second              |            |             |                                       |           |                      | 5 Amp Max for < 1 second              |           |                               | 10 Amp Max for < 1 second             |                |                               |                                       |                |                               |                            |                      |                            |                      |
| Max Resistance                         | 50MΩ                       |                                       |            |             |                                       |           |                      |                                       |           |                               |                                       |                |                               |                                       |                |                               |                            |                      |                            |                      |
| Operating Temp.<br>Range               | -55° ~ +125°C              |                                       |            |             |                                       |           |                      |                                       |           |                               |                                       |                |                               |                                       |                |                               |                            |                      |                            |                      |

**Land Pattern (mm)**

| Size<br>Code | Component<br>Size | A   | B   | C    | D   |
|--------------|-------------------|-----|-----|------|-----|
| 1H (0201)    | 0.6X0.3           | 0.3 | 0.9 | 0.45 | 0.3 |
| 1E (0402)    | 1.0X0.5           | 0.5 | 1.5 | 0.6  | 0.5 |
| 1J (0603)    | 1.6X0.8           | 0.8 | 2.6 | 0.8  | 0.9 |
| 2A (0805)    | 2.0X1.25          | 1.2 | 3.0 | 1.2  | 0.9 |
| 2B (1206)    | 3.2X1.6           | 2.2 | 4.2 | 1.5  | 1.0 |
| 2E (1210)    | 3.2X2.5           | 2.2 | 4.2 | 2.4  | 1.0 |
| 2H (2010)    | 5.0X2.5           | 3.3 | 6.1 | 2.4  | 1.4 |
| 3A (2512)    | 6.4X3.2           | 4.4 | 8.0 | 3.0  | 1.8 |



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**Package Dimensions (in/mm)**

| Size                | L                              | W                     | c                     | d                               | t                      | EIA Size |
|---------------------|--------------------------------|-----------------------|-----------------------|---------------------------------|------------------------|----------|
| <b>1H</b><br>(0201) | .024±.001<br>0.6±0.03          | .012±.001<br>0.3±0.03 | .004±.002<br>0.1±0.05 | .006±.002<br>0.15±0.05          | .009±.001<br>0.23±0.03 | 0502     |
| <b>1E</b><br>(0402) | .039±.004-.002<br>1.0±0.1-0.05 | .02±.002<br>0.5±0.05  | .008±.004<br>0.2±0.1  | 0.1+-.002-.004<br>0.25+0.05+0.1 | 0.14±.002<br>0.35±0.05 | 1005     |
| <b>1J</b><br>(0603) | 0.63±.008<br>1.6±0.2           | 0.31±.004<br>0.8±0.1  | 0.12±.004<br>0.3±0.1  | 0.12±.004<br>0.3±0.1            | 0.18±.004<br>0.45±0.1  | 1608     |
| <b>2A</b><br>(0805) | .079±.008<br>2.0±0.2           | 0.49±.004<br>1.25±0.1 | 0.16±.008<br>0.4±0.2  | .012+-.008-.004<br>0.3+0.2-0.1  | .02±.004<br>1.5±0.1    | 2012     |
| <b>2B</b><br>(1206) | .126±.008<br>3.2±0.2           | 0.63±.008<br>1.6±0.2  | 0.2±0.12<br>0.5±0.3   | 0.16+-.008-.004<br>0.4+0.2-0.1  | 0.24±.004<br>0.6±0.1   | 3216     |
| <b>2E</b><br>(1210) |                                | .102±.008<br>2.6±0.2  |                       |                                 |                        | 3225     |
| <b>2H</b><br>(2010) | .197±.008<br>5.0±0.2           | .098±.008<br>2.5±0.2  |                       |                                 |                        | 5025     |
| <b>3A</b><br>(2512) | .248±.008<br>6.3±0.2           | .122±.008<br>3.1±0.2  |                       |                                 |                        | 6332     |

**Construction**

