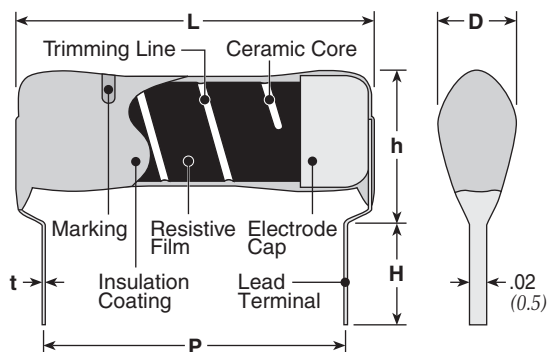




## features

- Lead frame construction
- High density assembly and excellent self-standing strength
- Marking: Blue body color with color dot marking for resistance and tolerance values
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

## dimensions and construction



| Type    | Dimensions inches (mm) |                |                         |                        |                |                |
|---------|------------------------|----------------|-------------------------|------------------------|----------------|----------------|
|         | L (max.)               | D (max.)       | P                       | H                      | h (max.)       | t              |
| LF1/8   | .197<br>(5.0)          | .098<br>(2.5)  | .100±.008<br>(2.54±0.2) | .236±.039<br>(6.0±1.0) | .200<br>(5.08) | .010<br>(0.25) |
| LF1/4   | .295<br>(7.5)          |                | .200±.008<br>(5.08±0.2) | .118±.020<br>(3.0±0.5) | .217<br>(5.5)  | .012<br>(0.3)  |
| LF1/4L  |                        |                |                         | .217±.020<br>(5.5±0.5) |                |                |
| LF1/2   | .378<br>(9.6)          |                | .300±.012<br>(7.62±0.3) |                        |                |                |
| LFF1/4  | .285<br>(7.25)         | .100<br>(2.54) | .200±.012<br>(5.08±0.3) | .197±.039<br>(5.0±1.0) |                |                |
| RK26B2E |                        |                |                         |                        |                |                |

## ordering information - LF, LFF

| New Part #   | LF        | 1/4                                                                   | C                                                  | T                                     | T                                                       | A                                    | 1000                                                                                                                                                                                                          | D                                                              |
|--------------|-----------|-----------------------------------------------------------------------|----------------------------------------------------|---------------------------------------|---------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Product Code | LF<br>LFF | Power Rating<br>1/8: 0.125W<br>1/4: 0.25W<br>1/4L: 0.25W<br>1/2: 0.5W | T.C.R.<br>(ppm/°C)<br>C: ±50<br>D: ±100<br>L: ±200 | Termination Surface Material<br>T: Sn | Taping<br>T: Taping<br>(1/8W, 1/4W only)<br>Blank: Bulk | Packaging<br>Ammo<br>(1/8, 1/4 only) | Nominal Resistance<br>±2%, ±5%:<br>2 significant figures + 1 multiplier<br>"R" indicates decimal on value <10Ω<br>±0.5%, ±1%:<br>3 significant figures + 1 multiplier<br>"R" indicates decimal on value <100Ω | Resistance Tolerance<br>D: ±0.5%<br>F: ±1%<br>G: ±2%<br>J: ±5% |

For 1/4L, only bulk type is available.

## ordering information - RK26

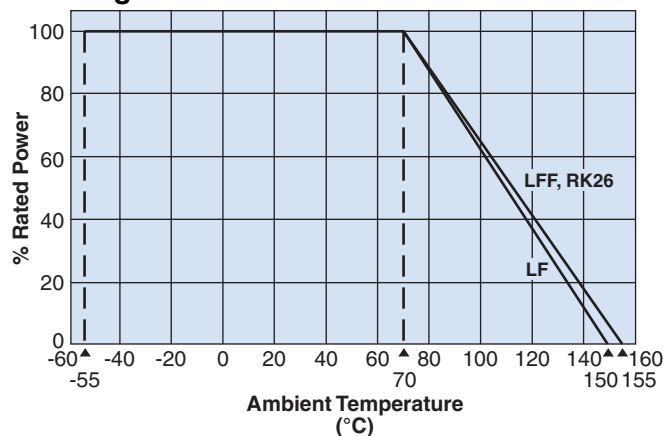
| New Part #   | RK26 | B                             | 2E                        | T                             | T                                  | A                 | 1003                                                                                                                                                                                                    | F                                       |
|--------------|------|-------------------------------|---------------------------|-------------------------------|------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Product Code | RK26 | T.C.R.<br>(ppm/°C)<br>B: ±350 | Power Rating<br>2E: 0.25W | Termination Material<br>T: Sn | Taping<br>T: Taping<br>Blank: Bulk | Packaging<br>Ammo | Nominal Resistance<br>±2%, ±5%: 2 significant figures + 1 multiplier<br>"R" indicates decimal on value <10Ω<br>±0.5%, ±1%: 3 significant figures + 1 multiplier<br>"R" indicates decimal on value <100Ω | Tolerance<br>F: ±1%<br>G: ±2%<br>J: ±5% |

## applications and ratings

| Part Designation | Power Rating | T.C.R.<br>(ppm/°C)<br>Max. | Resistance Range (Ω) |                 |            |            | Absolute Maximum Working Voltage | Absolute Maximum Overload Voltage | Rated Ambient Temperature | Operating Temperature Range |       |                 |       |                 |
|------------------|--------------|----------------------------|----------------------|-----------------|------------|------------|----------------------------------|-----------------------------------|---------------------------|-----------------------------|-------|-----------------|-------|-----------------|
|                  |              |                            | D±0.5% E-96          | F±1% E-24, E-96 | G±2% E-24  | J±5% E-24  |                                  |                                   |                           |                             |       |                 |       |                 |
| LF1/8            | 0.125W       | C: ±50                     | 45.3 - 562k          | 4.7 - 1M        | 1 - 1M     | 1 - 1M     | 200V                             | 400V                              | +70°C                     | -55°C to +150°C             |       |                 |       |                 |
|                  |              | D: ±100                    |                      |                 |            |            |                                  |                                   |                           |                             |       |                 |       |                 |
|                  |              | L: ±200                    |                      |                 |            |            |                                  |                                   |                           |                             |       |                 |       |                 |
| LF1/4<br>LF1/4L  | 0.25W        | C: ±50                     | 10 - 1M              | 10 - 1M         | 1 - 1M     | 1 - 1M     | 250V                             | 500V                              |                           |                             | +70°C | -55°C to +150°C |       |                 |
|                  |              | D: ±100                    |                      |                 |            |            |                                  |                                   |                           |                             |       |                 |       |                 |
|                  |              | L: ±200                    |                      |                 |            |            |                                  |                                   |                           |                             |       |                 |       |                 |
| LF1/2            | 0.5W         | C: ±50                     | 10 - 1M              | 10 - 1M         | 1 - 1M     | 1 - 1M     | 350V                             | 700V                              |                           |                             |       |                 | +70°C | -55°C to +150°C |
|                  |              | D: ±100                    |                      |                 |            |            |                                  |                                   |                           |                             |       |                 |       |                 |
|                  |              | L: ±200                    |                      |                 |            |            |                                  |                                   |                           |                             |       |                 |       |                 |
| LFF1/4           | 0.25W        | C: ±50                     | —                    | 10 - 100k       | 10 - 100k  | —          | 250V                             | 500V                              | +70°C                     | -55°C to +155°C             |       |                 |       |                 |
|                  |              | D: ±100                    |                      |                 |            |            |                                  |                                   |                           |                             |       |                 |       |                 |
| RK26B2E          | 0.25W        | B: ±350                    | —                    | 100K - 22M      | 100K - 33M | 100K - 33M | 500V                             | 700V                              |                           |                             |       |                 |       |                 |

## environmental applications

### Derating Curve



### Performance Characteristics

| Parameter                   | Requirement $\Delta R \pm(\% + 0.05\Omega)$      | Test Method                                                                                                                                                                                     |
|-----------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resistance                  | Within specified tolerance                       | 25°C                                                                                                                                                                                            |
| T.C.R.                      | Within specified T.C.R.                          | Room temperature +100°C                                                                                                                                                                         |
| Overload (Short Time)       | LF, LFF: $\pm$ 0.5%, RK26: $\pm$ 1%              | Rated voltage x 2.5 or max. overload voltage for 5 seconds, whichever is less                                                                                                                   |
| Resistance to Solder Heat   | LF: $\pm$ 0.25%, LFF: $\pm$ 0.5%, RK26: $\pm$ 1% | 260°C $\pm$ 5°C, 10 seconds $\pm$ 1 second or 350°C $\pm$ 10°C, 3.5 seconds $\pm$ 0.5 second                                                                                                    |
| Rapid Change of Temperature | LF, LFF: $\pm$ 0.5%<br>RK26: $\pm$ 1%            | LF: -55°C (30 minutes)/+25°C (10 minutes), +150°C (30 minutes)/+25°C (10 minutes), 5 cycles; LFF, RK26: -55°C (30 minutes)/+25°C (10 minutes), +155°C (30 minutes)/+25°C (10 minutes), 5 cycles |
| Moisture Resistance         | LF: $\pm$ 1%, LFF: $\pm$ 2%, RK26: $\pm$ 5%      | 40°C $\pm$ 2°C, 90-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle                                                                                                                              |
| Endurance @ 70°C            | LF: $\pm$ 1%, LFF: $\pm$ 2%, RK26: $\pm$ 5%      | 70°C $\pm$ 3°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle                                                                                                                                         |