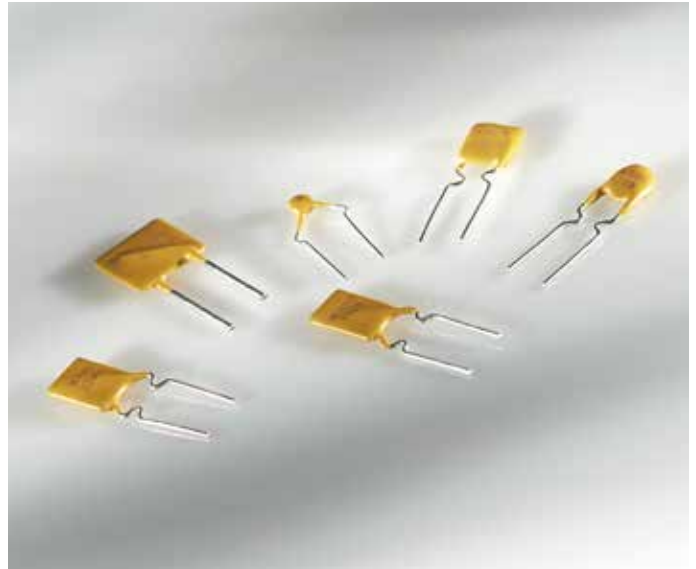


POLYSWITCH RESETTABLE DEVICES

Radial-Leaded Devices

TE Circuit Protection's PolySwitch radial-leaded products represent the most comprehensive and complete set of PPTC products available in the industry today.

- RGEF series for hold currents up to 14A
- RHEF series for flatter thermal derating and operating temperatures up to 125°C
- RUEF series for balance of voltage rating (30V) and hold current (up to 9A)
- RUSBF series for fast time-to-trip and low-resistance computer applications
- RXEF series for low hold currents (down to 50mA) and high voltage rating (up to 72V)
- RKEF series for balance of voltage rating (60V) and hold current (up to 5A)
- Now offering halogen free versions of all products



BENEFITS

- Many product choices help provide engineers more design flexibility
- Compatible with high-volume electronics assembly
- Assists in meeting regulatory requirements
- Higher voltage ratings allow use in new applications

FEATURES

- RoHS compliant
- Halogen free (refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm)
- Broadest range of radial-leaded resettable devices available in the industry
- Current ratings from 50mA to 15A
- Voltage ratings from 6V (computer and electronic applications) to 72V
- Agency recognition : UL, CSA, TÜV, CQC**
- Fast time-to-trip
- Low resistance

**CQC only applies to RXEF, RUEF family parts

APPLICATIONS

- Satellite video receivers
- Industrial controls
- Transformers
- Modems
- CD-ROMs
- Game machines
- Phones
- Fax machines
- Analog and digital line cards
- Printers
- Intelligent appliance
- Robotic machine
- Power supply
- Security
- Lighting
- Medical application

Application Selection Guide

The guide below lists PolySwitch radial-leaded devices that are typically used in each of the applications described.

Specifications for the suggested device part numbers can be found in this section.

Once a part number has been selected, the user should evaluate and test each product for its intended application.

| Protection Application | PolySwitch Resettable Devices – Key Selection Criteria | | |
|---|--|------------------|------------------------------|
| | Small Size | Flatter Derating | Lower Current Higher Voltage |
| Electromagnetic Loads | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| Halogen Lighting | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| Lighting Ballast | RXEF (<72V) | | |
| Loudspeakers | RXEF (<72V) | | RXEF (<72V), RKEF (<60V) |
| Medical Equipment | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| MOSFET Devices | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| Motors, Fans and Blowers | RXEF (<72V), RGEF (<16V) | RHEF (<16V) | |
| POS Equipment | RXEF (<72V), RUEF (<30V) | | |
| Process and Industrial Controls | RXEF (<72V), RUEF (<30V) | | |
| Satellite Video Receivers | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| Security and Fire Alarm Systems | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| Test and Measurement Equipment | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| Transformers | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |
| DDC Computer and Consumer Electronics | RUEF (<30V) | | |
| Mouse and Keyboard | RUEF (<30V) | | |
| SCSI | RUEF (<30V) | | |
| USB | RUSBF (<16V) | | |
| Traces and Printed Circuit Board Protection | RGEF (<16V), RUEF (<30V) | RHEF (<16V) | RXEF (<72V), RKEF (<60V) |

Note : This list is not exhaustive. TE Circuit Protection welcomes customer input for additional application ideas for PolySwitch resettable devices.

Table R1 – Product Series - Current Rating, Voltage Rating/Typical Resistance

| Voltage Rating | RXEF 72V | RKEF 60V | RXEF 60V | RUEF 30V | RGEF 16V | RHEF 16V | RHEF 30V | RUSBF 16V | RUSBF 6V |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
| Hold Current (A) | | | | | | | | | |
| 0.050 | — | — | 9.20Ω | — | — | — | — | — | — |
| 0.100 | — | — | 3.50Ω | — | — | — | — | — | — |
| 0.170 | — | — | 4.30Ω | — | — | — | — | — | — |
| 0.200 | 2.290Ω | — | — | — | — | — | — | — | — |
| 0.250 | 1.600Ω | — | — | — | — | — | — | — | — |
| 0.300 | 1.110Ω | — | — | — | — | — | — | — | — |
| 0.400 | 0.710Ω | — | — | — | — | — | — | — | — |
| 0.500 | 0.640Ω | 0.425Ω | — | — | — | — | 0.68Ω | — | — |
| 0.550 | — | — | — | — | — | — | — | — | — |
| 0.650 | 0.400Ω | 0.350Ω | — | — | — | — | — | — | — |
| 0.700 | — | — | — | — | — | — | 0.42Ω | — | — |
| 0.750 | 0.325Ω | 0.295Ω | — | — | — | — | — | — | 0.140Ω |
| 0.900 | 0.255Ω | 0.255Ω | — | 0.095Ω | — | — | — | 0.100Ω | — |
| 1.000 | — | — | — | — | — | — | 0.24Ω | — | — |
| 1.100 | 0.200Ω | 0.225Ω | — | 0.075Ω | — | — | — | 0.075Ω | — |
| 1.200 | — | — | — | — | — | — | — | — | 0.080Ω |
| 1.350 | 0.155Ω | 0.165Ω | — | 0.060Ω | — | — | — | 0.060Ω | — |
| 1.550 | — | — | — | — | — | — | — | — | 0.058Ω |
| 1.600 | 0.115Ω | 0.150Ω | — | 0.050Ω | — | — | — | 0.050Ω | — |
| 1.850 | 0.100Ω | 0.106Ω | — | 0.045Ω | — | — | — | 0.045Ω | — |
| 1.900 | — | — | — | — | — | — | — | — | — |

Table R1 — Product Series - Current Rating, Voltage Rating/Typical Resistance (Cont'd)

| Voltage Rating | RXEF 72V | RKEF 60V | RXEF 60V | RUEF 30V | RGEF 16V | RHEF 16V | RHEF 30V | RUSBF 16V | RUSBF 6V |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
| Hold Current (A) | | | | | | | | | |
| 2.000 | — | — | — | — | — | 0.0610Ω | — | — | — |
| 2.500 | 0.065Ω | 0.063Ω | — | 0.030Ω | 0.0380Ω | — | — | 0.030Ω | — |
| 3.000 | 0.050Ω | 0.040Ω | — | 0.035Ω | 0.0514Ω | 0.0430Ω | — | — | — |
| 3.750 | 0.040Ω | 0.029Ω | — | — | — | — | — | — | — |
| 4.000 | — | 0.026Ω | — | 0.020Ω | 0.0300Ω | 0.0320Ω | — | — | — |
| 4.500 | — | — | — | — | — | 0.0290Ω | — | — | — |
| 5.000 | — | 0.021Ω | — | 0.020Ω | 0.0192Ω | — | — | — | — |
| 5.500 | — | — | — | — | — | 0.0200Ω | — | — | — |
| 6.000 | — | — | — | 0.013Ω | 0.0145Ω | 0.0175Ω | — | — | — |
| 6.500 | — | — | — | — | — | 0.0144Ω | — | — | — |
| 7.000 | — | — | — | 0.013Ω | 0.0105Ω | 0.0132Ω | — | — | — |
| 7.500 | — | — | — | — | — | 0.0120Ω | — | — | — |
| 8.000 | — | — | — | 0.013Ω | 0.0086Ω | 0.0110Ω | — | — | — |
| 9.000 | — | — | — | 0.008Ω | 0.0070Ω | 0.0100Ω | — | — | — |
| 10.00 | — | — | — | — | 0.0056Ω | 0.0083Ω | — | — | — |
| 11.00 | — | — | — | — | 0.0050Ω | 0.0073Ω | — | — | — |
| 12.00 | — | — | — | — | 0.0046Ω | — | — | — | — |
| 13.00 | — | — | — | — | — | 0.0055Ω | — | — | — |
| 14.00 | — | — | — | — | 0.0040Ω | 0.0050Ω | — | — | — |
| 15.00 | — | — | — | — | — | 0.0050Ω | — | — | — |

HF Halogen Free

Table R2 — Thermal Derating [Hold Current (A) at Ambient Temperature (°C)]

| Part Number | Maximum Ambient Temperature | | | | | | | | | | |
|-----------------|-----------------------------|-------|------|------|-------|------|-------|-------|-------|------|-------|
| | -40°C | -20°C | 0°C | 20°C | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C | 125°C |
| RXEF 60V | | | | | | | | | | | |
| RXEF005 | 0.078 | 0.068 | 0.06 | 0.05 | 0.048 | 0.04 | 0.035 | 0.032 | 0.027 | 0.02 | — |
| RXEF010 | 0.160 | 0.140 | 0.11 | 0.10 | 0.096 | 0.08 | 0.072 | 0.067 | 0.050 | 0.04 | — |
| RXEF017 | 0.260 | 0.230 | 0.21 | 0.17 | 0.160 | 0.14 | 0.120 | 0.110 | 0.090 | 0.07 | — |
| RXEF 72V | | | | | | | | | | | |
| RXEF020 | 0.31 | 0.27 | 0.24 | 0.20 | 0.19 | 0.16 | 0.14 | 0.13 | 0.11 | 0.08 | — |
| RXEF025 | 0.39 | 0.34 | 0.30 | 0.25 | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 0.10 | — |
| RXEF030 | 0.47 | 0.41 | 0.36 | 0.30 | 0.29 | 0.24 | 0.22 | 0.20 | 0.16 | 0.12 | — |
| RXEF040 | 0.62 | 0.54 | 0.48 | 0.40 | 0.38 | 0.32 | 0.29 | 0.25 | 0.22 | 0.16 | — |
| RXEF050 | 0.78 | 0.68 | 0.60 | 0.50 | 0.48 | 0.41 | 0.36 | 0.32 | 0.27 | 0.20 | — |
| RXEF065 | 1.01 | 0.88 | 0.77 | 0.65 | 0.62 | 0.53 | 0.47 | 0.41 | 0.35 | 0.26 | — |
| RXEF075 | 1.16 | 1.02 | 0.89 | 0.75 | 0.72 | 0.61 | 0.54 | 0.47 | 0.41 | 0.30 | — |
| RXEF090 | 1.40 | 1.22 | 1.07 | 0.90 | 0.86 | 0.73 | 0.65 | 0.57 | 0.49 | 0.36 | — |
| RXEF110 | 1.71 | 1.50 | 1.31 | 1.10 | 1.06 | 0.89 | 0.79 | 0.69 | 0.59 | 0.44 | — |
| RXEF135 | 2.09 | 1.84 | 1.61 | 1.35 | 1.30 | 1.09 | 0.97 | 0.85 | 0.73 | 0.54 | — |
| RXEF160 | 2.48 | 2.18 | 1.90 | 1.60 | 1.54 | 1.30 | 1.15 | 1.01 | 0.86 | 0.64 | — |
| RXEF185 | 2.87 | 2.52 | 2.20 | 1.85 | 1.78 | 1.50 | 1.33 | 1.17 | 1.00 | 0.74 | — |
| RXEF250 | 3.88 | 3.40 | 2.98 | 2.50 | 2.40 | 2.03 | 1.80 | 1.58 | 1.35 | 1.00 | — |
| RXEF300 | 4.65 | 4.08 | 3.57 | 3.00 | 2.88 | 2.43 | 2.16 | 1.89 | 1.62 | 1.20 | — |
| RXEF375 | 5.81 | 5.10 | 4.46 | 3.75 | 3.60 | 3.04 | 2.70 | 2.36 | 2.03 | 1.50 | — |

Table R2 — Thermal Derating [Hold Current (A) at Ambient Temperature (°C)] (Cont'd)

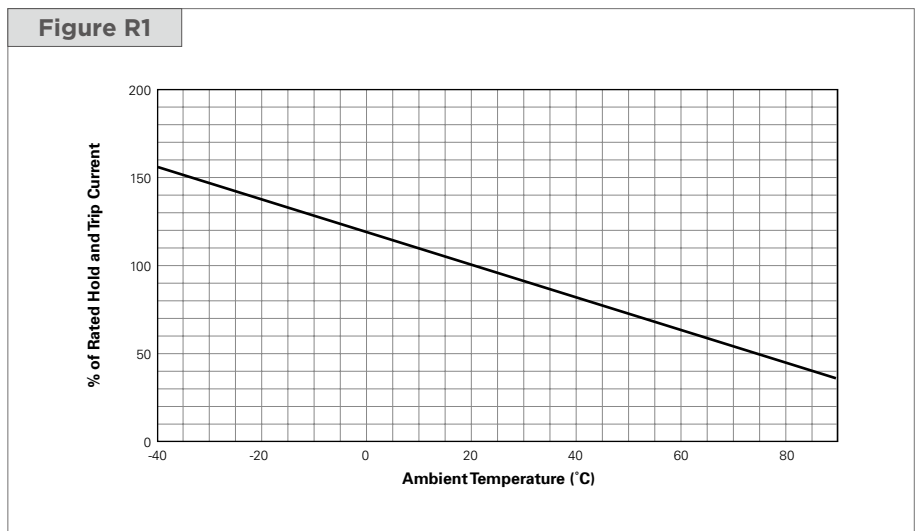
| Part Number | Maximum Ambient Temperature | | | | | | | | | | |
|--|-----------------------------|-------|-------|------|------|------|------|------|------|------|-------|
| | -40°C | -20°C | 0°C | 20°C | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C | 125°C |
| RKEF 60V | | | | | | | | | | | |
| RKEF050 | 0.73 | 0.65 | 0.58 | 0.50 | 0.48 | 0.42 | 0.38 | 0.34 | 0.31 | 0.26 | — |
| RKEF065 | 0.94 | 0.85 | 0.75 | 0.65 | 0.63 | 0.54 | 0.50 | 0.44 | 0.40 | 0.34 | — |
| RKEF075 | 1.09 | 0.98 | 0.86 | 0.75 | 0.73 | 0.62 | 0.58 | 0.51 | 0.46 | 0.39 | — |
| RKEF090 | 1.30 | 1.17 | 1.04 | 0.90 | 0.87 | 0.75 | 0.69 | 0.61 | 0.55 | 0.47 | — |
| RKEF110 | 1.60 | 1.43 | 1.27 | 1.10 | 1.06 | 0.92 | 0.85 | 0.75 | 0.67 | 0.57 | — |
| RKEF135 | 1.96 | 1.76 | 1.55 | 1.35 | 1.31 | 1.12 | 1.04 | 0.92 | 0.83 | 0.71 | — |
| RKEF160 | 2.32 | 2.08 | 1.84 | 1.60 | 1.55 | 1.33 | 1.23 | 1.08 | 0.98 | 0.83 | — |
| RKEF185 | 2.68 | 2.41 | 2.13 | 1.85 | 1.79 | 1.54 | 1.43 | 1.26 | 1.13 | 0.96 | — |
| RKEF250 | 3.63 | 3.25 | 2.88 | 2.50 | 2.43 | 2.08 | 1.93 | 1.70 | 1.52 | 1.31 | — |
| RKEF300 | 4.35 | 3.90 | 3.45 | 3.00 | 2.91 | 2.50 | 2.30 | 2.04 | 1.84 | 1.55 | — |
| RKEF375 | 5.44 | 4.88 | 4.31 | 3.75 | 3.64 | 3.11 | 2.90 | 2.54 | 2.29 | 1.94 | — |
| RKEF400 | 5.80 | 5.20 | 4.60 | 4.00 | 3.88 | 3.32 | 3.08 | 2.73 | 2.45 | 2.08 | — |
| RKEF500 | 7.25 | 6.50 | 5.75 | 5.00 | 4.85 | 4.15 | 3.85 | 3.41 | 3.06 | 2.59 | — |
| RUEF 30V | | | | | | | | | | | |
| RUEF090 | 1.31 | 1.17 | 1.04 | 0.90 | 0.87 | 0.75 | 0.69 | 0.61 | 0.55 | 0.47 | — |
| RUEF110 | 1.60 | 1.43 | 1.27 | 1.10 | 1.07 | 0.91 | 0.85 | 0.75 | 0.67 | 0.57 | — |
| RUEF135 | 1.96 | 1.76 | 1.55 | 1.35 | 1.31 | 1.12 | 1.04 | 0.92 | 0.82 | 0.70 | — |
| RUEF160 | 2.32 | 2.08 | 1.84 | 1.60 | 1.55 | 1.33 | 1.23 | 1.09 | 0.98 | 0.83 | — |
| RUEF185 | 2.68 | 2.41 | 2.13 | 1.85 | 1.79 | 1.54 | 1.42 | 1.26 | 1.13 | 0.96 | — |
| RUEF250 | 3.63 | 3.25 | 2.88 | 2.50 | 2.43 | 2.08 | 1.93 | 1.70 | 1.53 | 1.30 | — |
| RUEF300 | 4.35 | 3.90 | 3.45 | 3.00 | 2.91 | 2.49 | 2.31 | 2.04 | 1.83 | 1.56 | — |
| RUEF400 | 5.80 | 5.20 | 4.60 | 4.00 | 3.88 | 3.32 | 3.08 | 2.72 | 2.44 | 2.08 | — |
| RUEF500 | 7.25 | 6.50 | 5.75 | 5.00 | 4.85 | 4.15 | 3.85 | 3.40 | 3.05 | 2.60 | — |
| RUEF600 | 8.70 | 7.80 | 6.90 | 6.00 | 5.82 | 4.98 | 4.62 | 4.08 | 3.66 | 3.12 | — |
| RUEF700 | 10.15 | 9.10 | 8.05 | 7.00 | 6.79 | 5.81 | 5.39 | 4.76 | 4.27 | 3.64 | — |
| RUEF800 | 11.60 | 10.40 | 9.20 | 8.00 | 7.76 | 6.64 | 6.16 | 5.44 | 4.88 | 4.16 | — |
| RUEF900 | 13.05 | 11.70 | 10.35 | 9.00 | 8.73 | 7.47 | 6.93 | 6.12 | 5.49 | 4.68 | — |
| RHEF 30V - High Temperature | | | | | | | | | | | |
| RHEF050 | 0.68 | 0.62 | 0.56 | 0.51 | 0.50 | 0.44 | 0.40 | 0.36 | 0.34 | 0.28 | 0.12 |
| RHEF070 | 0.95 | 0.87 | 0.79 | 0.72 | 0.70 | 0.62 | 0.56 | 0.51 | 0.47 | 0.39 | 0.17 |
| RHEF100 | 1.36 | 1.24 | 1.13 | 1.03 | 1.00 | 0.89 | 0.80 | 0.73 | 0.67 | 0.56 | 0.24 |
| RUSBF 16V | | | | | | | | | | | |
| RUSBF090 | 1.31 | 1.17 | 1.04 | 0.90 | 0.87 | 0.75 | 0.69 | 0.61 | 0.55 | 0.47 | — |
| RUSBF110 | 1.60 | 1.43 | 1.27 | 1.10 | 1.07 | 1.00 | 0.92 | 0.75 | 0.67 | 0.57 | — |
| RUSBF135 | 1.96 | 1.76 | 1.55 | 1.35 | 1.31 | 1.12 | 1.04 | 0.92 | 0.82 | 0.70 | — |
| RUSBF160 | 2.32 | 2.08 | 1.84 | 1.60 | 1.55 | 1.33 | 1.23 | 1.09 | 0.98 | 0.83 | — |
| RUSBF185 | 2.68 | 2.41 | 2.13 | 1.85 | 1.79 | 1.54 | 1.42 | 1.26 | 1.13 | 0.96 | — |
| RUSBF250 | 3.63 | 3.25 | 2.88 | 2.50 | 2.43 | 2.08 | 1.93 | 1.70 | 1.53 | 1.30 | — |
| RGEF 16V | | | | | | | | | | | |
| RGEF250 | 3.7 | 3.3 | 3.0 | 2.6 | 2.50 | 2.2 | 2.0 | 1.8 | 1.6 | 1.2 | — |
| RGEF300 | 4.4 | 4.0 | 3.6 | 3.1 | 3.00 | 2.6 | 2.4 | 2.1 | 1.9 | 1.4 | — |
| RGEF400 | 5.9 | 5.3 | 4.8 | 4.1 | 4.00 | 3.5 | 3.2 | 2.8 | 2.5 | 1.9 | — |
| RGEF500 | 7.3 | 6.6 | 6.0 | 5.2 | 5.00 | 4.4 | 4.0 | 3.6 | 3.1 | 2.4 | — |
| RGEF600 | 8.8 | 8.0 | 7.2 | 6.2 | 6.00 | 5.2 | 4.8 | 4.2 | 3.8 | 2.8 | — |
| RGEF700 | 10.3 | 9.3 | 8.4 | 7.3 | 7.00 | 6.2 | 5.6 | 5.0 | 4.4 | 3.3 | — |
| RGEF800 | 11.7 | 10.7 | 9.6 | 8.3 | 8.00 | 6.9 | 6.4 | 5.6 | 5.1 | 3.7 | — |

Table R2 — Thermal Derating [Hold Current (A) at Ambient Temperature (°C)] (Cont'd)

| Part Number | Maximum Ambient Temperature | | | | | | | | | | |
|--|-----------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| | -40°C | -20°C | 0°C | 20°C | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C | 125°C |
| RGEF 16V | | | | | | | | | | | |
| RGEF900 | 13.2 | 11.9 | 10.7 | 9.4 | 9.00 | 7.9 | 7.2 | 6.4 | 5.6 | 4.2 | — |
| RGEF1000 | 14.7 | 13.3 | 12.0 | 10.3 | 10.00 | 8.7 | 8.0 | 7.0 | 6.3 | 4.7 | — |
| RGEF1100 | 16.1 | 14.6 | 13.1 | 11.5 | 11.00 | 9.7 | 8.8 | 7.8 | 6.9 | 5.2 | — |
| RGEF1200 | 17.6 | 16.0 | 14.4 | 12.4 | 12.00 | 10.4 | 9.6 | 8.4 | 7.6 | 5.6 | — |
| RGEF1400 | 20.5 | 18.7 | 16.8 | 14.5 | 14.00 | 12.1 | 11.2 | 9.8 | 8.9 | 6.5 | — |
| RHEF 16V - High Temperature | | | | | | | | | | | |
| RHEF200 | 2.71 | 2.49 | 2.26 | 2.06 | 2.00 | 1.77 | 1.60 | 1.46 | 1.34 | 1.11 | 0.49 |
| RHEF300 | 4.07 | 3.74 | 3.41 | 3.09 | 3.00 | 2.65 | 2.40 | 2.21 | 2.00 | 1.66 | 0.74 |
| RHEF400 | 5.57 | 5.11 | 4.65 | 4.22 | 4.00 | 3.62 | 3.29 | 3.01 | 2.73 | 2.27 | 1.01 |
| RHEF450 | 6.10 | 5.60 | 5.10 | 4.60 | 4.50 | 4.00 | 3.60 | 3.30 | 3.00 | 2.50 | 1.10 |
| RHEF550 | 7.47 | 6.86 | 6.24 | 5.66 | 5.50 | 4.85 | 4.41 | 4.04 | 3.66 | 3.05 | 1.36 |
| RHEF600 | 8.20 | 7.50 | 6.80 | 6.20 | 6.00 | 5.30 | 4.90 | 4.40 | 4.00 | 3.30 | 1.50 |
| RHEF650 | 8.80 | 8.10 | 7.40 | 6.70 | 6.50 | 5.70 | 5.30 | 4.80 | 4.30 | 3.60 | 1.60 |
| RHEF700 | 9.51 | 8.73 | 7.95 | 7.20 | 7.00 | 6.17 | 5.61 | 5.15 | 4.66 | 3.88 | 1.73 |
| RHEF750 | 10.20 | 9.40 | 8.60 | 7.70 | 7.50 | 6.60 | 6.10 | 5.60 | 5.00 | 4.10 | 1.90 |
| RHEF800 | 10.87 | 9.98 | 9.08 | 8.23 | 8.00 | 7.06 | 6.41 | 5.88 | 5.33 | 4.43 | 1.97 |
| RHEF900 | 12.21 | 11.19 | 10.16 | 9.26 | 9.00 | 7.97 | 7.20 | 6.56 | 6.04 | 5.01 | 2.19 |
| RHEF1000 | 13.60 | 12.50 | 11.40 | 10.30 | 10.00 | 8.80 | 8.10 | 7.40 | 6.60 | 5.50 | 2.50 |
| RHEF1100 | 14.94 | 13.72 | 12.49 | 11.31 | 11.00 | 9.70 | 8.82 | 8.09 | 7.32 | 6.09 | 2.71 |
| RHEF1300 | 17.70 | 16.30 | 14.80 | 13.40 | 13.00 | 11.40 | 10.50 | 9.60 | 8.60 | 7.20 | 3.30 |
| RHEF1400 | 19.01 | 17.46 | 15.89 | 14.40 | 14.00 | 12.35 | 11.22 | 10.29 | 9.32 | 7.76 | 3.45 |
| RHEF1500 | 20.40 | 18.80 | 17.10 | 15.50 | 15.00 | 13.20 | 12.10 | 11.10 | 9.90 | 8.30 | 3.80 |
| RUSBF 6V | | | | | | | | | | | |
| RUSBF075 | 1.05 | 0.95 | 0.85 | 0.75 | 0.73 | 0.65 | 0.60 | 0.55 | 0.50 | 0.43 | — |
| RUSBF120 | 1.69 | 1.52 | 1.36 | 1.20 | 1.16 | 1.04 | 0.96 | 0.88 | 0.80 | 0.68 | — |
| RUSBF155 | 2.17 | 1.96 | 1.75 | 1.55 | 1.50 | 1.34 | 1.24 | 1.14 | 1.03 | 0.88 | — |

Figures R1-R5 — Thermal Derating Curve

RXEF

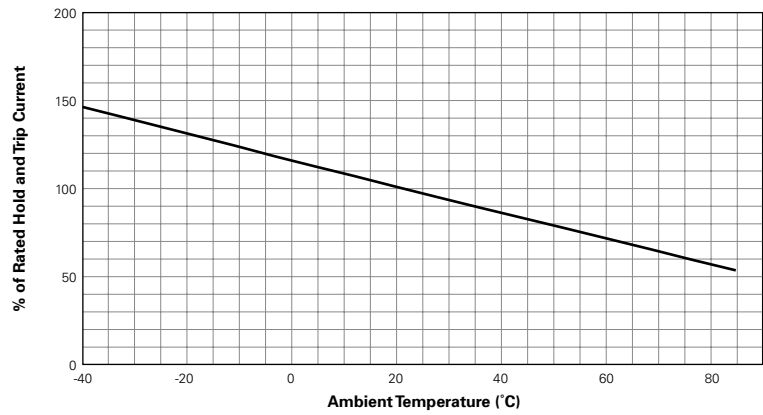


Figures R1-R5 — Thermal Derating Curve

(Cont'd)

RKEF

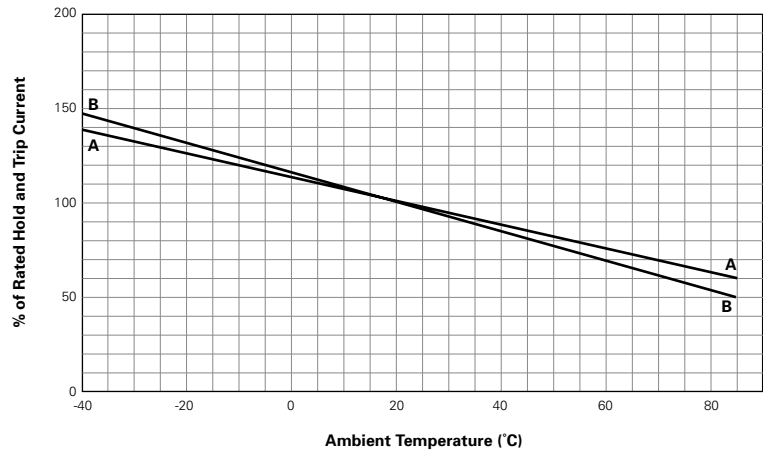
Figure R2



A = RUSBF075,
RUSBF120,
RUSBF155

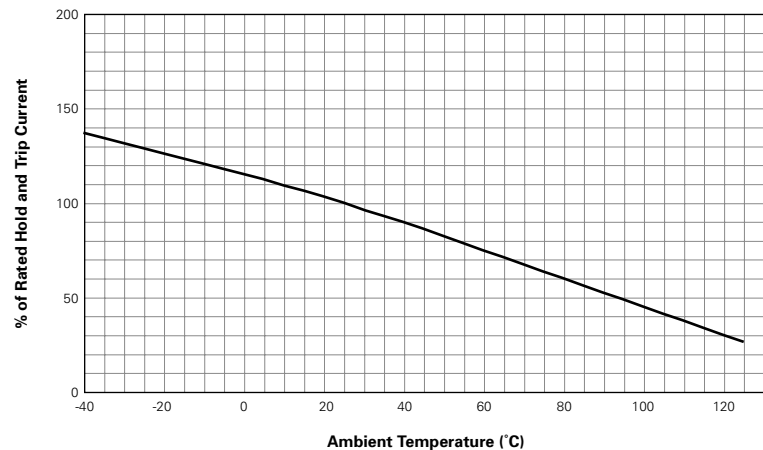
B = RUEF,
and all other RUSBF

Figure R3



RHEF

Figure R4



Figures R1-R5 — Thermal Derating Curve

(Cont'd)

RGEF

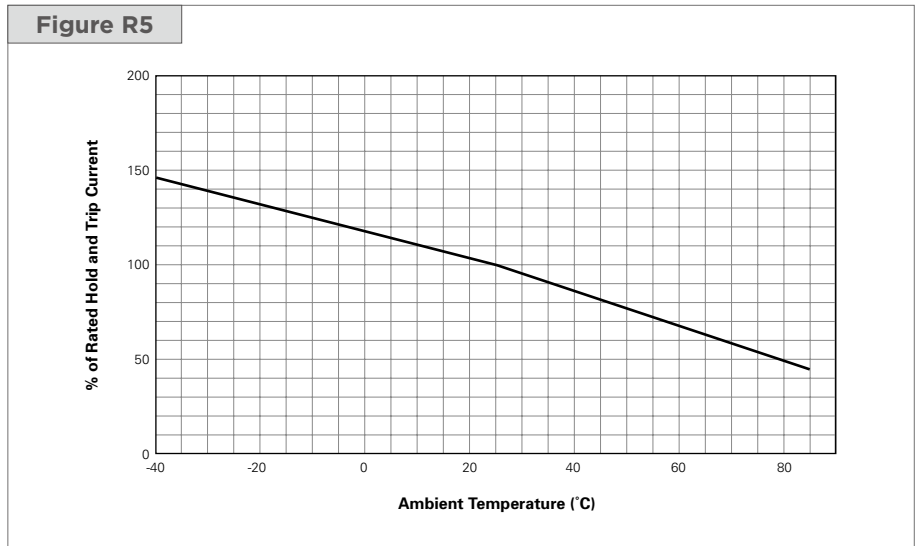


Table R3 — Electrical Characteristics

| Part Number | I _H (A) | I _T (A) | V _{MAX} | | I _{MAX} | | P _D Typ (W) | Max Time-to-trip | | R _{MIN} (Ω) | R _{MAX} (Ω) | R _{1MAX} (Ω) | Lead Size [mm ² (AWG)] |
|---------------------|-----------------------|-----------------------|--------------------|-----------------------|----------------------|-----------------------|---------------------------|------------------|------|-------------------------|-------------------------|--------------------------|--------------------------------------|
| | | | (V _{DC}) | (V _{AC} RMS) | (DC _{ADC}) | (AC _{ARMS}) | | (A) | (s) | | | | |
| RXEF 60V | | | | | | | | | | | | | |
| RXEF005 | 0.05 | 0.10 | 60 | — | 40 | — | 0.22 | 0.25 | 5.0 | 7.3 | 11.10 | 20.00 | [0.128mm ² (26)] |
| RXEF010 | 0.10 | 0.20 | 60 | — | 40 | — | 0.38 | 0.50 | 4.0 | 2.5 | 4.50 | 7.50 | [0.205mm ² (24)] |
| RXEF017 | 0.17 | 0.34 | 60 | — | 40 | — | 0.48 | 0.85 | 3.0 | 3.3 | 5.21 | 8.00 | [0.205mm ² (24)] |
| RXEF 72V | | | | | | | | | | | | | |
| RXEF020 | 0.20 | 0.40 | 72 | 72 | 40 | 40 | 0.41 | 1.00 | 2.2 | 1.83 | 2.75 | 4.40 | [0.205mm ² (24)] |
| RXEF025 | 0.25 | 0.50 | 72 | 72 | 40 | 40 | 0.45 | 1.25 | 2.5 | 1.25 | 1.95 | 3.00 | [0.205mm ² (24)] |
| RXEF030 | 0.30 | 0.60 | 72 | 72 | 40 | 40 | 0.49 | 1.50 | 3.0 | 0.88 | 1.33 | 2.10 | [0.205mm ² (24)] |
| RXEF040 | 0.40 | 0.80 | 72 | 72 | 40 | 40 | 0.56 | 2.00 | 3.8 | 0.55 | 0.86 | 1.29 | [0.205mm ² (24)] |
| RXEF050 | 0.50 | 1.00 | 72 | 72 | 40 | 40 | 0.77 | 2.50 | 4.0 | 0.50 | 0.77 | 1.17 | [0.205mm ² (24)] |
| RXEF065 | 0.65 | 1.30 | 72 | 72 | 40 | 40 | 0.88 | 3.25 | 5.3 | 0.31 | 0.48 | 0.72 | [0.205mm ² (24)] |
| RXEF075 | 0.75 | 1.50 | 72 | 72 | 40 | 40 | 0.92 | 3.75 | 6.3 | 0.25 | 0.40 | 0.60 | [0.205mm ² (24)] |
| RXEF090 | 0.90 | 1.80 | 72 | 72 | 40 | 40 | 0.99 | 4.50 | 7.2 | 0.20 | 0.31 | 0.47 | [0.205mm ² (24)] |
| RXEF110 | 1.10 | 2.20 | 72 | 72 | 40 | 40 | 1.50 | 5.50 | 8.2 | 0.15 | 0.25 | 0.38 | [0.520mm ² (20)] |
| RXEF135 | 1.35 | 2.70 | 72 | 72 | 40 | 40 | 1.70 | 6.75 | 9.6 | 0.12 | 0.19 | 0.30 | [0.520mm ² (20)] |
| RXEF160 | 1.60 | 3.20 | 72 | 72 | 40 | 40 | 1.90 | 8.00 | 11.4 | 0.09 | 0.14 | 0.22 | [0.520mm ² (20)] |
| RXEF185 | 1.85 | 3.70 | 72 | 72 | 40 | 40 | 2.10 | 9.25 | 12.6 | 0.08 | 0.12 | 0.19 | [0.520mm ² (20)] |
| RXEF250 | 2.50 | 5.00 | 72 | 72 | 40 | 40 | 2.50 | 12.50 | 15.6 | 0.05 | 0.08 | 0.13 | [0.520mm ² (20)] |
| RXEF300 | 3.00 | 6.00 | 72 | 72 | 40 | 40 | 2.80 | 15.00 | 19.8 | 0.04 | 0.06 | 0.10 | [0.520mm ² (20)] |
| RXEF375 | 3.75 | 7.50 | 72 | 72 | 40 | 40 | 3.20 | 18.75 | 24.0 | 0.03 | 0.05 | 0.08 | [0.520mm ² (20)] |

Table R3 – Electrical Characteristics

(Cont'd)

| Part Number | I _H (A) | I _T (A) | V _{MAX} | | I _{MAX} | | P _{D Typ} (W) | Max Time-to-trip | | R _{MIN} (Ω) | R _{MAX} (Ω) | R _{1MAX} (Ω) | Lead Size [mm ² (AWG)] |
|-------------------------------|-----------------------|-----------------------|--------------------|------------------------|----------------------|-----------------------|---------------------------|------------------|------|-------------------------|-------------------------|--------------------------|--------------------------------------|
| | | | (V _{DC}) | (V _{AC RMS}) | (DC _{ADC}) | (AC _{ARMS}) | | (A) | (s) | | | | |
| RKEF | | | | | | | | | | | | | |
| 60V | | | | | | | | | | | | | |
| RKEF050 | 0.50 | 1.00 | 60 | — | 40 | — | 1.00 | 8.00 | 0.8 | 0.320 | 0.529 | 0.900 | [0.205mm ² (24)] |
| RKEF065 | 0.65 | 1.30 | 60 | — | 40 | — | 1.25 | 8.00 | 1.0 | 0.250 | 0.450 | 0.720 | [0.205mm ² (24)] |
| RKEF075 | 0.75 | 1.50 | 60 | — | 40 | — | 1.40 | 8.00 | 1.5 | 0.200 | 0.390 | 0.640 | [0.205mm ² (24)] |
| RKEF090 | 0.90 | 1.80 | 60 | — | 40 | — | 1.50 | 8.00 | 2.0 | 0.190 | 0.320 | 0.520 | [0.205mm ² (24)] |
| RKEF110 | 1.10 | 2.20 | 60 | — | 40 | — | 2.20 | 8.00 | 3.0 | 0.170 | 0.280 | 0.470 | [0.520mm ² (20)] |
| RKEF135 | 1.35 | 2.70 | 60 | — | 40 | — | 2.30 | 8.00 | 4.5 | 0.110 | 0.220 | 0.370 | [0.520mm ² (20)] |
| RKEF160 | 1.60 | 3.20 | 60 | — | 40 | — | 2.40 | 8.20 | 9.0 | 0.100 | 0.200 | 0.320 | [0.520mm ² (20)] |
| RKEF185 | 1.85 | 3.70 | 60 | — | 40 | — | 2.60 | 9.25 | 12.6 | 0.060 | 0.152 | 0.250 | [0.520mm ² (20)] |
| RKEF250 | 2.50 | 5.00 | 60 | — | 40 | — | 2.80 | 12.50 | 15.6 | 0.040 | 0.085 | 0.140 | [0.520mm ² (20)] |
| RKEF300 | 3.00 | 6.00 | 60 | — | 40 | — | 3.20 | 15.00 | 19.8 | 0.030 | 0.050 | 0.080 | [0.520mm ² (20)] |
| RKEF375 | 3.75 | 7.50 | 60 | — | 40 | — | 3.40 | 18.75 | 22.0 | 0.017 | 0.040 | 0.060 | [0.520mm ² (20)] |
| RKEF400 | 4.00 | 8.00 | 60 | — | 40 | — | 3.70 | 20.00 | 24.0 | 0.014 | 0.038 | 0.060 | [0.520mm ² (20)] |
| RKEF500 | 5.00 | 10.00 | 60 | — | 40 | — | 5.00 | 25.00 | 28.0 | 0.012 | 0.030 | 0.050 | [0.520mm ² (20)] |
| RUEF | | | | | | | | | | | | | |
| 30V | | | | | | | | | | | | | |
| RUEF090 | 0.90 | 1.80 | 30 | 30 | 100 | 70 | 0.60 | 4.50 | 5.9 | 0.070 | 0.120 | 0.22 | [0.205mm ² (24)] |
| RUEF110 | 1.10 | 2.20 | 30 | 30 | 100 | 70 | 0.70 | 5.50 | 6.6 | 0.070 | 0.100 | 0.17 | [0.205mm ² (24)] |
| RUEF135 | 1.35 | 2.70 | 30 | 30 | 100 | 70 | 0.80 | 6.75 | 7.3 | 0.040 | 0.080 | 0.13 | [0.205mm ² (24)] |
| RUEF160 | 1.60 | 3.20 | 30 | 30 | 100 | 70 | 0.90 | 8.00 | 8.0 | 0.030 | 0.070 | 0.11 | [0.205mm ² (24)] |
| RUEF185 | 1.85 | 3.70 | 30 | 30 | 100 | 70 | 1.00 | 9.25 | 8.7 | 0.030 | 0.060 | 0.09 | [0.205mm ² (24)] |
| RUEF250 | 2.50 | 5.00 | 30 | 30 | 100 | 70 | 1.20 | 12.50 | 10.3 | 0.020 | 0.040 | 0.07 | [0.205mm ² (24)] |
| RUEF300 | 3.00 | 6.00 | 30 | 30 | 100 | 70 | 2.00 | 15.00 | 10.8 | 0.020 | 0.050 | 0.08 | [0.520mm ² (20)] |
| RUEF400 | 4.00 | 8.00 | 30 | 30 | 100 | 70 | 2.50 | 20.00 | 12.7 | 0.010 | 0.030 | 0.05 | [0.520mm ² (20)] |
| RUEF500 | 5.00 | 10.00 | 30 | 30 | 100 | 70 | 3.00 | 25.00 | 14.5 | 0.010 | 0.030 | 0.05 | [0.520mm ² (20)] |
| RUEF600 | 6.00 | 12.00 | 30 | 30 | 100 | 70 | 3.50 | 30.00 | 16.0 | 0.005 | 0.020 | 0.04 | [0.520mm ² (20)] |
| RUEF700 | 7.00 | 14.00 | 30 | 30 | 100 | 70 | 3.80 | 35.00 | 17.5 | 0.005 | 0.020 | 0.03 | [0.520mm ² (20)] |
| RUEF800 | 8.00 | 16.00 | 30 | 30 | 100 | 70 | 4.00 | 40.00 | 18.8 | 0.005 | 0.013 | 0.02 | [0.520mm ² (20)] |
| RUEF900 | 9.00 | 18.00 | 30 | 30 | 100 | 70 | 4.20 | 45.00 | 20.0 | 0.005 | 0.010 | 0.02 | [0.520mm ² (20)] |
| RHEF* | | | | | | | | | | | | | |
| 30V - High Temperature | | | | | | | | | | | | | |
| RHEF050 | 0.5 | 0.9 | 30 | — | 40 | — | 0.9 | 2.5 | 2.5 | 0.480 | 0.780 | 1.10 | [0.205mm ² (24)] |
| RHEF070 | 0.7 | 1.4 | 30 | — | 40 | — | 1.4 | 3.5 | 3.2 | 0.300 | 0.540 | 0.80 | [0.205mm ² (24)] |
| RHEF100 | 1.0 | 1.8 | 30 | — | 40 | — | 1.4 | 5.0 | 5.2 | 0.180 | 0.300 | 0.43 | [0.205mm ² (24)] |
| RUSBF | | | | | | | | | | | | | |
| 16V | | | | | | | | | | | | | |
| RUSBF090 | 0.90 | 1.8 | 16 | — | 40 | — | 0.6 | 8.0 | 1.2 | 0.070 | 0.120 | 0.180 | [0.205mm ² (24)] |
| RUSBF110 | 1.10 | 2.2 | 16 | — | 40 | — | 0.7 | 8.0 | 2.3 | 0.050 | 0.095 | 0.140 | [0.205mm ² (24)] |
| RUSBF135 | 1.35 | 2.7 | 16 | — | 40 | — | 0.8 | 8.0 | 4.5 | 0.040 | 0.074 | 0.112 | [0.205mm ² (24)] |
| RUSBF160 | 1.60 | 3.2 | 16 | — | 40 | — | 0.9 | 8.0 | 9.0 | 0.030 | 0.061 | 0.110 | [0.205mm ² (24)] |
| RUSBF185 | 1.85 | 3.7 | 16 | — | 40 | — | 1.0 | 8.0 | 10.0 | 0.030 | 0.051 | 0.090 | [0.205mm ² (24)] |
| RUSBF250 | 2.50 | 5.0 | 16 | — | 40 | — | 1.2 | 8.0 | 40.0 | 0.020 | 0.036 | 0.060 | [0.205mm ² (24)] |
| RGEF* | | | | | | | | | | | | | |
| 16V | | | | | | | | | | | | | |
| RGEF250 | 2.5 | 4.7 | 16 | — | 100 | — | 1.0 | 12.5 | 5.0 | 0.0220 | 0.0350 | 0.0530 | [0.205mm ² (24)] |
| RGEF300 | 3.0 | 5.1 | 16 | — | 100 | — | 2.3 | 15.0 | 1.0 | 0.0380 | 0.0645 | 0.0975 | [0.520mm ² (20)] |
| RGEF400 | 4.0 | 6.8 | 16 | — | 100 | — | 2.4 | 20.0 | 1.7 | 0.0210 | 0.0390 | 0.0600 | [0.520mm ² (20)] |
| RGEF500 | 5.0 | 8.5 | 16 | — | 100 | — | 2.6 | 25.0 | 2.0 | 0.0150 | 0.0240 | 0.0340 | [0.520mm ² (20)] |
| RGEF600 | 6.0 | 10.2 | 16 | — | 100 | — | 2.8 | 30.0 | 3.3 | 0.0100 | 0.0190 | 0.0280 | [0.520mm ² (20)] |
| RGEF700 | 7.0 | 11.9 | 16 | — | 100 | — | 3.0 | 35.0 | 3.5 | 0.0077 | 0.0131 | 0.0200 | [0.520mm ² (20)] |
| RGEF800 | 8.0 | 13.6 | 16 | — | 100 | — | 3.0 | 40.0 | 5.0 | 0.0056 | 0.0110 | 0.0175 | [0.520mm ² (20)] |
| RGEF900 | 9.0 | 15.3 | 16 | — | 100 | — | 3.3 | 45.0 | 5.5 | 0.0047 | 0.0091 | 0.0135 | [0.520mm ² (20)] |
| RGEF1000 | 10.0 | 17.0 | 16 | — | 100 | — | 3.6 | 50.0 | 6.0 | 0.0040 | 0.0070 | 0.0102 | [0.520mm ² (20)] |
| RGEF1100 | 11.0 | 18.7 | 16 | — | 100 | — | 3.7 | 55.0 | 7.0 | 0.0037 | 0.0060 | 0.0089 | [0.520mm ² (20)] |
| RGEF1200 | 12.0 | 20.4 | 16 | — | 100 | — | 4.2 | 60.0 | 7.5 | 0.0033 | 0.0057 | 0.0086 | [0.823mm ² (18)] |
| RGEF1400 | 14.0 | 23.8 | 16 | — | 100 | — | 4.6 | 70.0 | 9.0 | 0.0026 | 0.0043 | 0.0064 | [0.823mm ² (18)] |

Table R3 – Electrical Characteristics

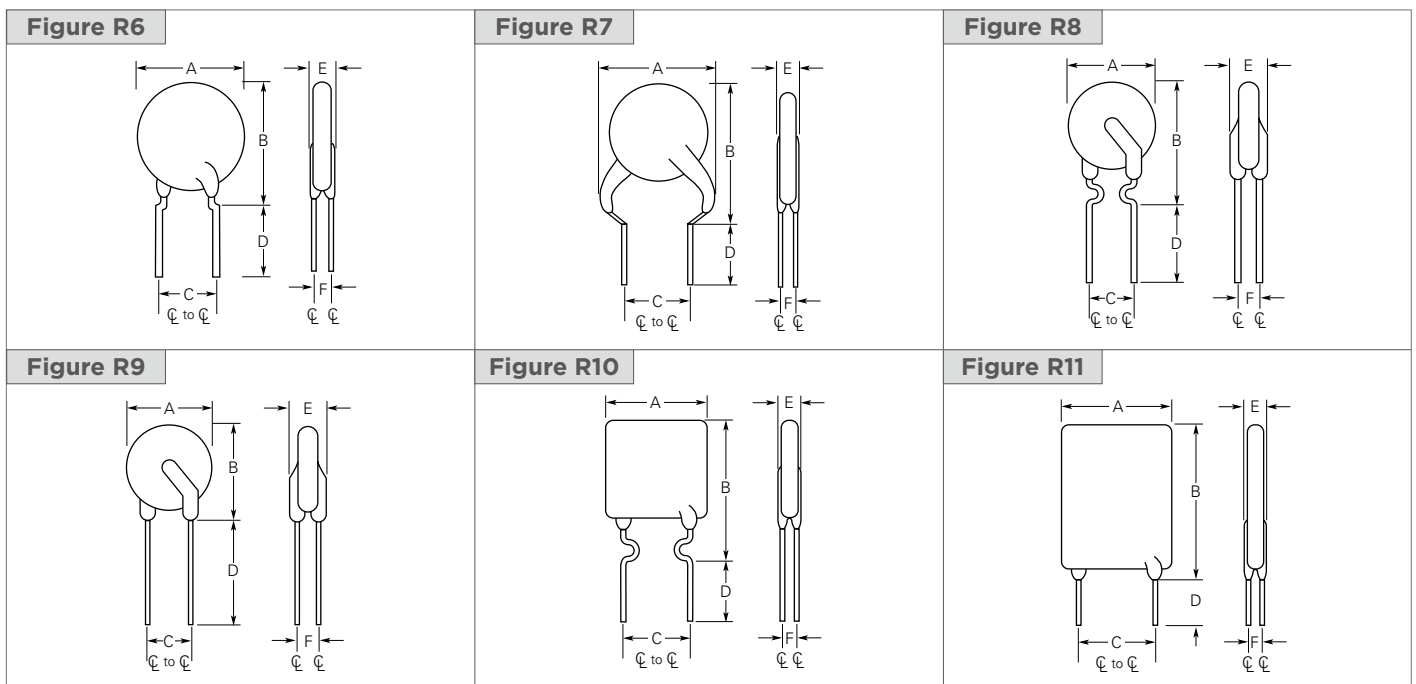
(Cont'd)

| Part Number | I _H (A) | I _T (A) | V _{MAX} | | I _{MAX} | | P _D Typ (W) | Max Time-to-trip | | R _{MIN} (Ω) | R _{MAX} (Ω) | R _{1MAX} (Ω) | Lead Size [mm ² (AWG)] |
|-------------------------------|-----------------------|-----------------------|--------------------|-----------------------|----------------------|-----------------------|---------------------------|------------------|------|-------------------------|-------------------------|--------------------------|--------------------------------------|
| | | | (V _{DC}) | (V _{AC} RMS) | (DC _{ADC}) | (AC _{ARMS}) | | (A) | (s) | | | | |
| RHEF* | | | | | | | | | | | | | |
| 16V - High Temperature | | | | | | | | | | | | | |
| RHEF200 | 2.0 | 3.8 | 16 | — | 100 | — | 1.4 | 10.0 | 4.3 | 0.0450 | 0.07400 | 0.1100 | [0.205mm ² (24)] |
| RHEF300 | 3.0 | 6.0 | 16 | — | 100 | — | 3.0 | 15.0 | 5.0 | 0.0330 | 0.05300 | 0.0790 | [0.520mm ² (20)] |
| RHEF400 | 4.0 | 7.5 | 16 | — | 100 | — | 3.3 | 20.0 | 5.0 | 0.0240 | 0.04000 | 0.0600 | [0.520mm ² (20)] |
| RHEF450 | 4.5 | 7.8 | 16 | — | 100 | — | 3.6 | 22.5 | 3.0 | 0.0220 | 0.03600 | 0.0540 | [0.520mm ² (20)] |
| RHEF550 | 5.5 | 10.0 | 16 | — | 100 | — | 3.5 | 27.5 | 6.0 | 0.0150 | 0.02500 | 0.0370 | [0.520mm ² (20)] |
| RHEF600 | 6.0 | 10.8 | 16 | — | 100 | — | 4.1 | 30.0 | 5.0 | 0.0130 | 0.02150 | 0.0320 | [0.520mm ² (20)] |
| RHEF650 | 6.5 | 12.0 | 16 | — | 100 | — | 4.1 | 32.5 | 5.5 | 0.0110 | 0.01750 | 0.0260 | [0.520mm ² (20)] |
| RHEF700 | 7.0 | 13.0 | 16 | — | 100 | — | 4.0 | 35.0 | 7.0 | 0.0100 | 0.01640 | 0.0250 | [0.520mm ² (20)] |
| RHEF750 | 7.5 | 13.1 | 16 | — | 100 | — | 4.5 | 37.5 | 7.0 | 0.0094 | 0.01530 | 0.0220 | [0.520mm ² (20)] |
| RHEF800 | 8.0 | 15.0 | 16 | — | 100 | — | 4.2 | 40.0 | 8.0 | 0.0080 | 0.01350 | 0.0200 | [0.520mm ² (20)] |
| RHEF900 | 9.0 | 16.5 | 16 | — | 100 | — | 5.0 | 45.0 | 10.0 | 0.0074 | 0.01200 | 0.0170 | [0.520mm ² (20)] |
| RHEF1000 | 10.0 | 18.5 | 16 | — | 100 | — | 5.3 | 50.0 | 9.0 | 0.0062 | 0.01050 | 0.0150 | [0.520mm ² (20)] |
| RHEF1100 | 11.0 | 20.0 | 16 | — | 100 | — | 5.5 | 55.0 | 11.0 | 0.0055 | 0.00900 | 0.0130 | [0.520mm ² (20)] |
| RHEF1300 | 13.0 | 24.0 | 16 | — | 100 | — | 6.9 | 65.0 | 13.0 | 0.0041 | 0.00690 | 0.0100 | [0.823mm ² (18)] |
| RHEF1400 | 14.0 | 27.0 | 16 | — | 100 | — | 6.9 | 70.0 | 13.0 | 0.0030 | 0.00600 | 0.0090 | [0.823mm ² (18)] |
| RHEF1500 | 15.0 | 28.0 | 16 | — | 100 | — | 7.0 | 75.0 | 20.0 | 0.0032 | 0.00613 | 0.0092 | [0.823mm ² (18)] |
| RUSBF | | | | | | | | | | | | | |
| 6V | | | | | | | | | | | | | |
| RUSBF075 | 0.75 | 1.30 | 6 | — | 40 | — | 0.3 | 8.0 | 0.4 | 0.110 | 0.1750 | 0.23 | [0.205mm ² (24)] |
| RUSBF120 | 1.20 | 2.00 | 6 | — | 40 | — | 0.6 | 8.0 | 0.5 | 0.070 | 0.0975 | 0.14 | [0.205mm ² (24)] |
| RUSBF155 | 1.55 | 2.65 | 6 | — | 40 | — | 0.6 | 7.8 | 2.2 | 0.040 | 0.0705 | 0.10 | [0.205mm ² (24)] |

Notes:

- I_H : Hold current: maximum current device will pass without interruption in 20°C still air.
 - I_T : Trip current: minimum current that will switch the device from low resistance to high resistance in 20°C still air.
 - V_{MAX} : Maximum continuous voltage device can withstand without damage at rated current.
 - I_{MAX} : Maximum fault current device can withstand without damage at rated voltage.
 - P_D : Power dissipated from device when in the tripped state in 20°C still air.
 - R_{MIN} : Minimum resistance of device as supplied at 20°C unless otherwise specified.
 - R_{MAX} : Maximum resistance of device as supplied at 20°C unless otherwise specified.
 - R_{1MAX} : Maximum resistance of device when measured one hour post reflow (surface-mount device) or one hour post trip (radial-leaded device) at 20°C unless otherwise specified.
- * Electrical characteristics determined at 25°C.

Figures R6-R14 – Dimension Figures



Figures R6-R14 – Dimension Figures

(Cont'd)

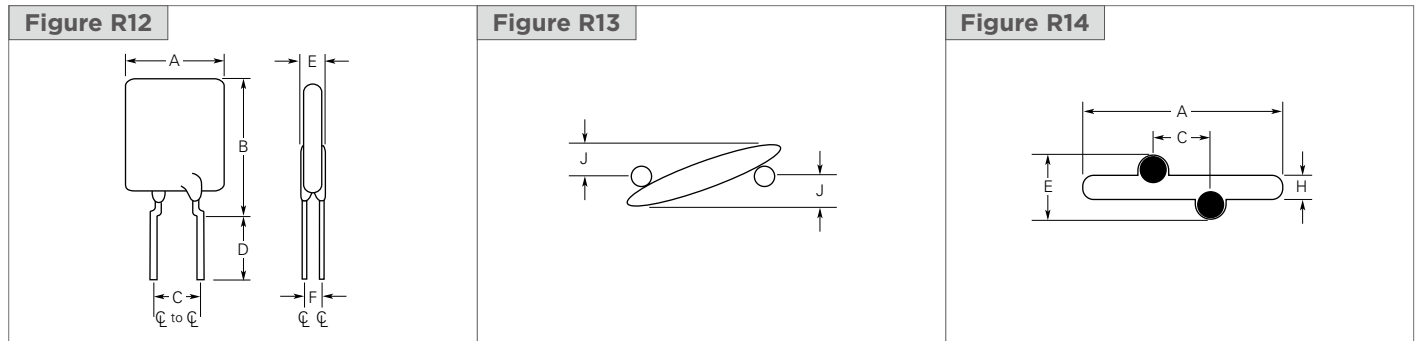


Table R4 – Dimensions and Weights

| Part Number | Dimensions in Millimeters (Inches) | | | | | | | | | | | | | Figure | Device Mass (g) (Only for Reference) |
|-----------------|------------------------------------|----------------|-----|----------------|---------------|----------------|---------------|-----|-----|---------------|-----|-----------------|---------------|-----------------|---|
| | A | | B | | C | | D | | E | | F | H | J | | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Typ | Typ | Typ | | |
| RXEF 60V | | | | | | | | | | | | | | | |
| RXEF005 | — | 8.0 (0.32) | — | 8.3 (0.33) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.07 (0.042) | 1.0 (0.04) | R7, R13, R14 | 0.069 |
| RXEF010 | — | 7.4 (0.29) | — | 11.6 (0.46) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.07 (0.042) | 1.0 (0.04) | R8, R13, R14 | 0.128 |
| RXEF017 | — | 7.4 (0.29) | — | 12.7 (0.50) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.68 (0.066) | 1.7 (0.07) | R8, R13, R14 | 0.174 |
| RXEF 72V | | | | | | | | | | | | | | | |
| RXEF020 | — | 7.4 (0.29) | — | 11.7 (0.46) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.0 (0.04) | R8, R13, R14 | 0.119 |
| RXEF025 | — | 7.4 (0.29) | — | 12.7 (0.50) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.0 (0.04) | R8, R13, R14 | 0.130 |
| RXEF030 | — | 7.4 (0.29) | — | 12.7 (0.50) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.0 (0.04) | R8, R13, R14 | 0.143 |
| RXEF040 | — | 7.6 (0.30) | — | 13.5 (0.53) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.2 (0.05) | R8, R13, R14 | 0.202 |
| RXEF050 | — | 7.9 (0.31) | — | 13.7 (0.54) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.2 (0.05) | R8, R13, R14 | 0.210 |
| RXEF065 | — | 9.4 (0.37) | — | 14.5 (0.57) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.5 (0.06) | R8, R13, R14 | 0.277 |
| RXEF075 | — | 10.2 (0.40) | — | 15.2 (0.60) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.5 (0.06) | R8, R13, R14 | 0.310 |
| RXEF090 | — | 11.2 (0.44) | — | 15.8 (0.62) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.17 (0.046) | 1.5 (0.06) | R8, R13, R14 | 0.365 |
| RXEF110 | — | 12.8 (0.50) | — | 17.5 (0.69) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.37 (0.054) | 1.2 (0.05) | R9, R13, R14 | 0.546 |
| RXEF135 | — | 14.5 (0.57) | — | 19.1 (0.75) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.37 (0.054) | 1.2 (0.05) | R9, R13, R14 | 0.653 |
| RXEF160 | — | 16.3 (0.64) | — | 20.8 (0.82) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.37 (0.054) | 1.5 (0.06) | R9, R13, R14 | 0.684 |
| RXEF185 | — | 17.5 (0.69) | — | 22.4 (0.88) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.37 (0.054) | 1.5 (0.06) | R9, R13, R14 | 0.808 |
| RXEF250 | — | 20.8 (0.82) | — | 25.4 (1.00) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.37 (0.054) | 1.7 (0.07) | R9, R13, R14 | 1.139 |
| RXEF300 | — | 23.9 (0.94) | — | 28.6 (1.13) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.37 (0.054) | 1.7 (0.07) | R9, R13, R14 | 1.379 |
| RXEF375 | — | 27.2 (1.07) | — | 31.8 (1.25) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.37 (0.054) | 1.7 (0.07) | R9, R13, R14 | 1.708 |

Table R4 – Dimensions and Weights

(Cont'd)

| Part Number | Dimensions in Millimeters (Inches) | | | | | | | | | | | | | Figure | Device Mass (g) (Only for Reference) |
|---------------------|------------------------------------|-----------------|-----|-----------------|----------------|-----------------|----------------|-----|-----|----------------|-----|-----------------|---------------|------------------|---|
| | A | | B | | C | | D | | E | | F | H | J | | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Typ | Typ | Typ | | |
| RKEF 60V | | | | | | | | | | | | | | | |
| RKEF050 | — | 7.10 (0.28) | — | 11.43 (0.45) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.56 (0.14) | — | — | — | R10, R13, R14 | 0.166 |
| RKEF065 | — | 7.11 (0.28) | — | 12.20 (0.48) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.56 (0.14) | — | — | — | R10, R13, R14 | 0.182 |
| RKEF075 | — | 7.87 (0.31) | — | 12.20 (0.48) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.56 (0.14) | — | — | — | R10, R13, R14 | 0.201 |
| RKEF090 | — | 7.87 (0.31) | — | 13.97 (0.55) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.56 (0.14) | — | — | — | R10, R13, R14 | 0.235 |
| RKEF110 | — | 7.60 (0.30) | — | 15.00 (0.59) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 4.10 (0.16) | — | — | — | R10, R13, R14 | 0.353 |
| RKEF135 | — | 10.20 (0.40) | — | 17.00 (0.67) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.81 (0.15) | — | — | — | R11, R13, R14 | 0.438 |
| RKEF160 | — | 12.20 (0.48) | — | 18.30 (0.72) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.81 (0.15) | — | — | — | R11, R13, R14 | 0.546 |
| RKEF185 | — | 13.00 (0.51) | — | 18.80 (0.74) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.81 (0.15) | — | — | — | R11, R13, R14 | 0.538 |
| RKEF250 | — | 14.00 (0.55) | — | 20.60 (0.81) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.00 (0.12) | — | — | — | R11, R13, R14 | 0.775 |
| RKEF300 | — | 16.50 (0.65) | — | 21.20 (0.83) | 4.32 (0.17) | 5.84 (0.23) | 7.60 (0.30) | — | — | 3.00 (0.12) | — | — | — | R11, R13, R14 | 0.971 |
| RKEF375 | — | 16.50 (0.65) | — | 25.20 (0.99) | 9.40 (0.37) | 10.90 (0.43) | 7.60 (0.30) | — | — | 3.00 (0.12) | — | — | — | R11, R13, R14 | 1.142 |
| RKEF400 | — | 21.00 (0.83) | — | 24.90 (0.98) | 9.40 (0.37) | 10.90 (0.43) | 7.60 (0.30) | — | — | 3.00 (0.12) | — | — | — | R11, R13, R14 | 1.391 |
| RKEF500 | — | 24.10 (0.95) | — | 29.00 (1.14) | 9.40 (0.37) | 10.90 (0.43) | 7.60 (0.30) | — | — | 3.00 (0.12) | — | — | — | R11, R13, R14 | 1.783 |
| RUEF 30V | | | | | | | | | | | | | | | |
| RUEF090 | — | 7.4 (0.29) | — | 12.2 (0.48) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 0.8 (0.03) | R10, R13, R14 | 0.183 |
| RUEF110 | — | 7.4 (0.29) | — | 14.2 (0.56) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 0.8 (0.03) | R10, R13, R14 | 0.204 |
| RUEF135 | — | 8.9 (0.35) | — | 13.5 (0.53) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.0 (0.04) | R10, R13, R14 | 0.255 |
| RUEF160 | — | 8.9 (0.35) | — | 15.2 (0.60) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.0 (0.04) | R10, R13, R14 | 0.289 |
| RUEF185 | — | 10.2 (0.40) | — | 15.7 (0.62) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.0 (0.04) | R10, R13, R14 | 0.379 |
| RUEF250 | — | 11.4 (0.45) | — | 18.3 (0.72) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.2 (0.05) | R10, R13, R14 | 0.493 |
| RUEF300 | — | 11.4 (0.45) | — | 16.5 (0.65) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.19 (0.047) | 1.5 (0.06) | R11, R13, R14 | 0.516 |
| RUEF400 | — | 14.0 (0.55) | — | 19.3 (0.76) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.19 (0.047) | 1.7 (0.07) | R11, R13, R14 | 0.670 |
| RUEF500 | — | 14.0 (0.55) | — | 24.1 (0.95) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.19 (0.047) | 1.0 (0.04) | R11, R13, R14 | 0.926 |
| RUEF600 | — | 16.5 (0.65) | — | 24.1 (0.95) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.19 (0.047) | 1.0 (0.04) | R11, R13, R14 | 1.352 |
| RUEF700 | — | 19.1 (0.75) | — | 25.9 (1.02) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.19 (0.047) | 1.2 (0.05) | R11, R13, R14 | 1.543 |
| RUEF800 | — | 21.6 (0.85) | — | 28.4 (1.12) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.19 (0.047) | 1.5 (0.06) | R11, R13, R14 | 1.852 |
| RUEF900 | — | 24.1 (0.95) | — | 29.0 (1.14) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 1.19 (0.047) | 1.5 (0.06) | R11, R13, R14 | 2.104 |

Table R4 — Dimensions and Weights

(Cont'd)

| Part Number | Dimensions in Millimeters (Inches) | | | | | | | | | | | | | Figure | Device Mass (g) (Only for Reference) |
|-------------------------------|------------------------------------|-----------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|---------------|---------------|-----------------|---------------|------------------|---|
| | A | | B | | C | | D | | E | | F | H | J | | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Typ | Typ | Typ | | |
| RHEF | | | | | | | | | | | | | | | |
| 30V - High Temperature | | | | | | | | | | | | | | | |
| RHEF050 | — | 7.4 (0.29) | — | 12.7 (0.50) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | — | — | R8, R13, R14 | 0.177 |
| RHEF070 | — | 6.9 (0.27) | — | 10.8 (0.43) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.2 (0.05) | R10, R13, R14 | 0.259 |
| RHEF100 | — | 9.7 (0.38) | — | 13.6 (0.54) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | — | — | R8, R13, R14 | 0.312 |
| RUSBF | | | | | | | | | | | | | | | |
| 16V | | | | | | | | | | | | | | | |
| RUSBF090 | — | 7.4 (0.29) | — | 12.2 (0.48) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.1 (0.12) | — | 0.89 (0.035) | 0.8 (0.03) | R10, R13, R14 | 0.183 |
| RUSBF110 | — | 7.4 (0.29) | — | 14.2 (0.56) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 0.8 (0.03) | R10, R13, R14 | 0.204 |
| RUSBF135 | — | 8.9 (0.35) | — | 13.5 (0.53) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.0 (0.04) | R10, R13, R14 | 0.240 |
| RUSBF160 | — | 8.9 (0.35) | — | 15.2 (0.60) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.0 (0.04) | R10, R13, R14 | 0.300 |
| RUSBF185 | — | 10.2 (0.40) | — | 15.7 (0.62) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.0 (0.04) | R10, R13, R14 | 0.368 |
| RUSBF250 | — | 11.4 (0.45) | — | 18.3 (0.72) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | — | 0.89 (0.035) | 1.2 (0.05) | R10, R13, R14 | 0.467 |
| RGEF | | | | | | | | | | | | | | | |
| 16V | | | | | | | | | | | | | | | |
| RGEF250 | — | 8.9 (0.35) | — | 12.8 (0.50) | 4.3 (0.17) | 5.8 (0.23) | 3.18 (0.13) | 6.18 (0.24) | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.2 (0.05) | R10, R13, R14 | 0.277 |
| RGEF300 | 6.1 (0.24) | 7.1 (0.28) | 6.1 (0.24) | 11.0 (0.43) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.2 (0.05) | R11, R13, R14 | 0.323 |
| RGEF400 | 7.9 (0.31) | 8.9 (0.35) | 7.9 (0.31) | 12.8 (0.50) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.4 (0.06) | R11, R13, R14 | 0.417 |
| RGEF500 | 9.4 (0.37) | 10.4 (0.41) | 9.4 (0.37) | 14.3 (0.56) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.6 (0.06) | R11, R13, R14 | 0.540 |
| RGEF600 | 9.7 (0.38) | 10.7 (0.42) | 12.2 (0.48) | 17.1 (0.67) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.6 (0.06) | R11, R13, R14 | 0.604 |
| RGEF700 | 10.2 (0.40) | 11.2 (0.44) | 14.7 (0.58) | 19.7 (0.78) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.7 (0.07) | R11, R13, R14 | 0.701 |
| RGEF800 | 11.7 (0.46) | 12.7 (0.50) | 16.0 (0.63) | 20.9 (0.82) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.8 (0.07) | R11, R13, R14 | 0.829 |
| RGEF900 | 13.0 (0.51) | 14.0 (0.55) | 16.8 (0.66) | 21.7 (0.85) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 2.0 (0.08) | R11, R13, R14 | 0.887 |
| RGEF1000 | — | 16.5 (0.65) | 21.1 (0.83) | 25.2 (0.99) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 2.0 (0.08) | R11, R13, R14 | 1.219 |
| RGEF1100 | 16.5 (0.65) | 17.5 (0.69) | 21.1 (0.83) | 26.0 (1.02) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | 2.0 (0.08) | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 2.4 (0.09) | R11, R13, R14 | 1.408 |
| RGEF1200 | 16.4 (0.65) | 17.5 (0.69) | 22.6 (0.89) | 28.0 (1.10) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | 2.3 (0.09) | 3.5 (0.14) | 1.4 (0.06) | 1.45 (0.057) | 1.5 (0.06) | R11, R13, R14 | 1.650 |
| RGEF1400 | — | 23.5 (0.925) | 22.6 (0.89) | 27.9 (1.10) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | 2.3 (0.09) | 3.5 (0.14) | 1.4 (0.06) | 1.45 (0.057) | 1.9 (0.08) | R11, R13, R14 | 2.146 |
| RHEF | | | | | | | | | | | | | | | |
| 16V - High Temperature | | | | | | | | | | | | | | | |
| RHEF200 | — | 9.4 (0.37) | — | 14.4 (0.57) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.1 (0.12) | — | — | — | R8, R13, R14 | 0.278 |
| RHEF300 | — | 8.8 (0.35) | — | 13.8 (0.55) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | — | — | R12, R13, R14 | 0.433 |
| RHEF400 | — | 10.0 (0.39) | — | 15.0 (0.59) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.6 (0.06) | R12, R13, R14 | 0.509 |

Table R4 – Dimensions and Weights

(Cont'd)

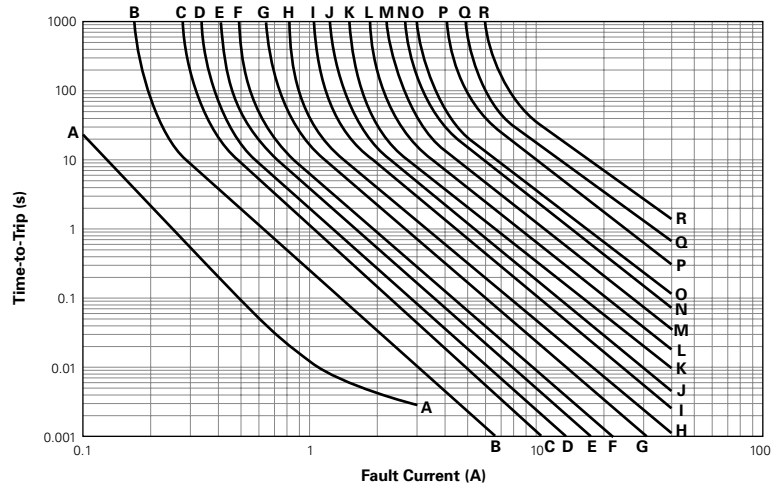
| Part Number | Dimensions in Millimeters (Inches) | | | | | | | | | | | | | Figure | Device Mass (g) (Only for Reference) |
|-------------------------------|------------------------------------|-----------------|-----|----------------|---------------|----------------|---------------|-----|-----|---------------|---------------|-----------------|----------------|------------------|---|
| | A | | B | | C | | D | | E | | F | H | J | | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Typ | Typ | Typ | | |
| RHEF | | | | | | | | | | | | | | | |
| 16V - High Temperature | | | | | | | | | | | | | | | |
| RHEF450 | — | 10.4 (0.41) | — | 15.6 (0.61) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.6 (0.06) | R12, R13, R14 | 0.605 |
| RHEF550 | — | 11.2 (0.44) | — | 18.9 (0.74) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | — | — | R12, R13, R14 | 0.704 |
| RHEF600 | — | 11.2 (0.44) | — | 21.0 (0.83) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.7 (0.067) | R12, R13, R14 | 0.792 |
| RHEF650 | — | 12.7 (0.50) | — | 22.2 (0.88) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.8 (0.07) | R12, R13, R14 | 0.952 |
| RHEF700 | — | 14.0 (0.55) | — | 21.9 (0.86) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | — | — | R12, R13, R14 | 0.850 |
| RHEF750 | — | 14.0 (0.55) | — | 23.5 (0.93) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 2.0 (0.08) | R12, R13, R14 | 1.054 |
| RHEF800 | — | 16.5 (0.65) | — | 22.5 (0.88) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | — | — | R12, R13, R14 | 1.073 |
| RHEF900 | — | 16.5 (0.65) | — | 25.7 (1.01) | 4.3 (0.17) | 5.8 (0.23) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | — | — | R12, R13, R14 | 1.516 |
| RHEF1000 | — | 17.5 (0.69) | — | 26.5 (1.04) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | 1.24 (0.049) | 1.5 (0.06) | R12, R13, R14 | 1.791 |
| RHEF1100 | — | 21.0 (0.83) | — | 26.1 (1.03) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.0 (0.12) | 1.2 (0.05) | — | — | R12, R13, R14 | 1.570 |
| RHEF1300 | — | 23.5 (0.925) | — | 28.7 (1.13) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.6 (0.14) | 1.4 (0.06) | 1.45 (0.057) | 1.9 (0.084) | R12, R13, R14 | 2.257 |
| RHEF1400 | — | 23.5 (0.925) | — | 28.6 (1.13) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.6 (0.14) | 1.4 (0.06) | — | — | R12, R13, R14 | 2.051 |
| RHEF1500 | — | 23.5 (0.925) | — | 28.7 (1.13) | 9.4 (0.37) | 10.9 (0.43) | 7.6 (0.30) | — | — | 3.6 (0.14) | 1.4 (0.06) | 1.45 (0.057) | 1.9 (0.084) | R12, R13, R14 | 2.257 |
| RUSBF | | | | | | | | | | | | | | | |
| 6V | | | | | | | | | | | | | | | |
| RUSBF075 | — | 6.9 (0.27) | — | 11.4 (0.45) | 4.3 (0.17) | 5.9 (0.23) | 7.6 (0.30) | — | — | 3.1 (0.12) | — | 0.91 (0.036) | 1.0 (0.04) | R8, R13, R14 | 0.123 |
| RUSBF120 | — | 6.9 (0.27) | — | 11.7 (0.46) | 4.3 (0.17) | 5.9 (0.23) | 7.6 (0.30) | — | — | 3.1 (0.12) | — | 0.91 (0.036) | 1.0 (0.04) | R8, R13, R14 | 0.111 |
| RUSBF155 | — | 6.9 (0.27) | — | 11.7 (0.46) | 4.3 (0.17) | 5.9 (0.23) | 7.6 (0.30) | — | — | 3.1 (0.12) | — | 0.91 (0.036) | 1.0 (0.04) | R8, R13, R14 | 0.135 |

Figures R15-R20 — Typical Time-to-Trip Curves at 20°C

RXEF

| | |
|-------------|-------------|
| A = RXEF005 | J = RXEF075 |
| B = RXEF010 | K = RXEF090 |
| C = RXEF017 | L = RXEF110 |
| D = RXEF020 | M = RXEF135 |
| E = RXEF025 | N = RXEF160 |
| F = RXEF030 | O = RXEF185 |
| G = RXEF040 | P = RXEF250 |
| H = RXEF050 | Q = RXEF300 |
| I = RXEF065 | R = RXEF375 |

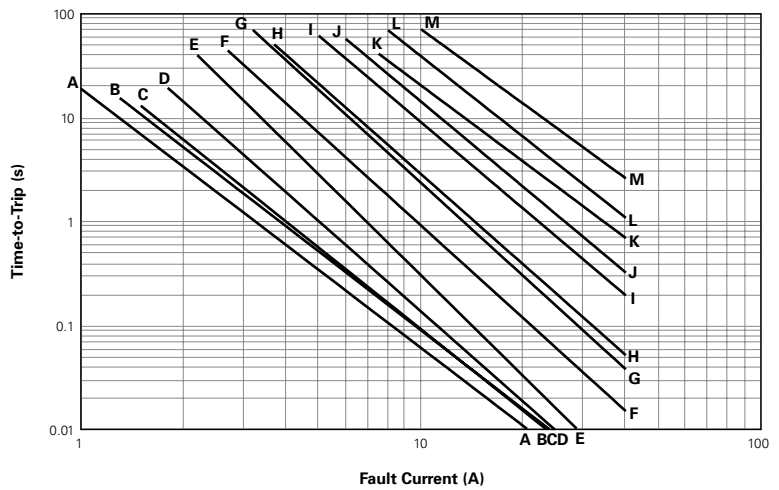
Figure R15



RKEF

| | |
|-------------|-------------|
| A = RKEF050 | J = RKEF300 |
| B = RKEF065 | K = RKEF375 |
| C = RKEF075 | L = RKEF400 |
| D = RKEF090 | M = RKEF500 |
| E = RKEF110 | |
| F = RKEF135 | |
| G = RKEF160 | |
| H = RKEF185 | |
| I = RKEF250 | |

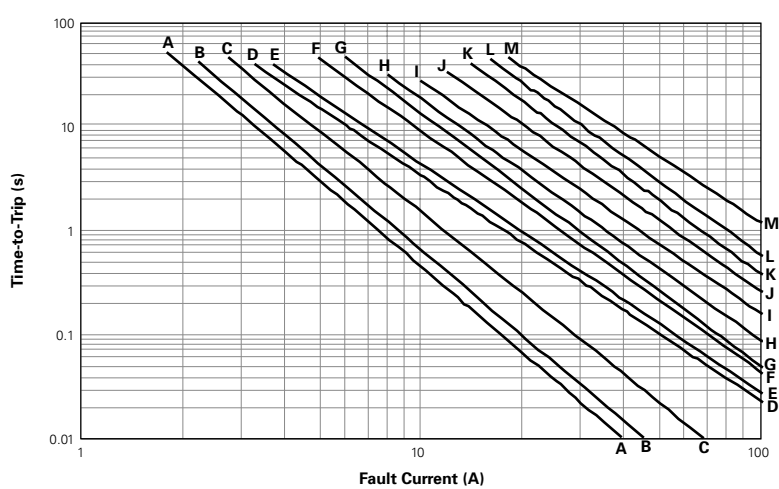
Figure R16



RUEF

| | |
|-------------|-------------|
| A = RUEF090 | H = RUEF400 |
| B = RUEF110 | I = RUEF500 |
| C = RUEF135 | J = RUEF600 |
| D = RUEF160 | K = RUEF700 |
| E = RUEF185 | L = RUEF800 |
| F = RUEF250 | M = RUEF900 |
| G = RUEF300 | |

Figure R17



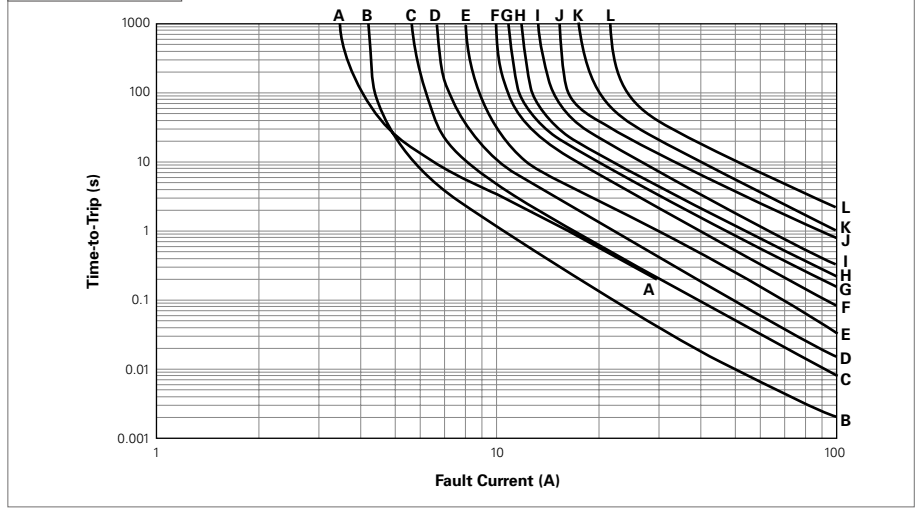
Figures R15-R20 — Typical Time-to-Trip Curves at 20°C

(Cont'd)

RGEF (data at 25°C)

- A = RGEF250
- B = RGEF300
- C = RGEF400
- D = RGEF500
- E = RGEF600
- F = RGEF700
- G = RGEF800
- H = RGEF900
- I = RGEF1000
- J = RGEF1100
- K = RGEF1200
- L = RGEF1400

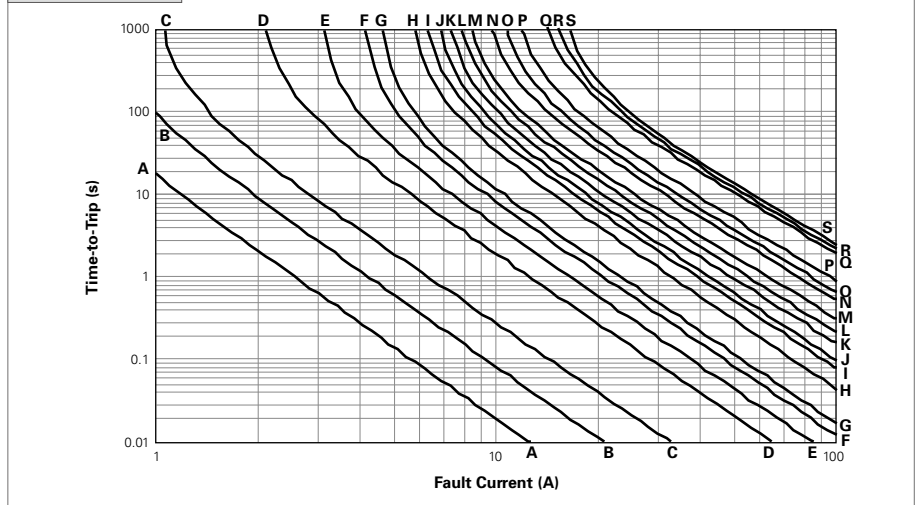
Figure R18



RHEF (data at 25°C)

- A = RHEF050
- B = RHEF070
- C = RHEF100
- D = RHEF200
- E = RHEF300
- F = RHEF400
- G = RHEF450
- H = RHEF550
- I = RHEF600
- J = RHEF650
- K = RHEF700
- L = RHEF750
- M = RHEF800
- N = RHEF900
- O = RHEF1000
- P = RHEF1100
- Q = RHEF1300
- R = RHEF1400
- S = RHEF1500

Figure R19



RUSBF

- A = RUSBF075
- B = RUSBF090
- C = RUSBF110
- D = RUSBF120
- E = RUSBF135
- F = RUSBF155
- G = RUSBF160
- H = RUSBF185
- I = RUSBF250

Figure R20

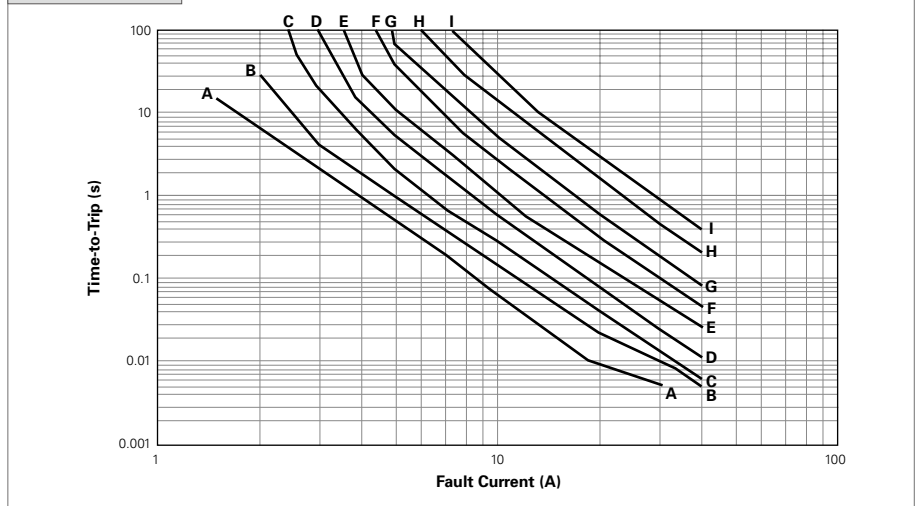


Table R5 — Physical Characteristics and Environmental Specifications

| RXEF | | |
|--|---|---|
| Physical Characteristics | | |
| Lead Material | RXEF005 | : Tin-plated Nickel-copper Alloy, 0.128mm ² (26AWG), ø0.40mm (0.016in) |
| | RXEF010 | : Tin-plated Nickel-copper Alloy, 0.205mm ² (24AWG), ø0.51mm (0.020in) |
| | RXEF017 to 040 | : Tin-plated Copper-clad Steel, 0.205mm ² (24AWG), ø0.51mm (0.020in) |
| | RXEF050 to 090 | : Tin-plated Copper, 0.205mm ² (24AWG), ø0.51mm (0.020in) |
| | RXEF110 to 375 | : Tin-plated Copper, 0.52mm ² (20AWG), ø0.81mm (0.032in) |
| Soldering Characteristics | Solderability per ANSI/J-STD-002 Category 3 | |
| | RXEF005, RXEF010 Meet ANSI/J-STD-002 Category 1 | |
| Solder Heat Withstand | RXEF005- RXEF025: per IEC-STD 68-2-20, Test Tb, Method 1a, Condition a; Can Withstand 5s at 260°C ±5°C | |
| | All Other Sizes : per IEC-STD 68-2-20, Test Tb, Method 1a, Condition b; Can Withstand 10s at 260°C ±5°C | |
| Insulating Material | Cured, Flame-retardant Epoxy Polymer; Meets UL 94V-0 | |
| Operation Temperature | -40°C~85°C | |
| Note: Devices are not designed to be placed through a reflow process. | | |
| Environmental Specifications | | |
| Test | Conditions | Resistance Change |
| Passive Aging | -40°C, 1000 hrs | ±5% |
| | 85°C, 1000 hrs | ±5% |
| Humidity Aging | 85°C, 85%RH, 1000 hrs | ±10% |
| Thermal Shock | 85°C, -40°C (10 Times) | ±10% |
| Solvent Resistance | MIL-STD-202, Method 215F | No Change |
| RKEF | | |
| Physical Characteristics | | |
| Lead Material | RKEF050 to 090 | : Tin-plated Copper, 0.205mm ² (24AWG), ø0.51mm (0.020in) |
| | RKEF110 to 500 | : Tin-plated Copper, 0.52mm ² (20AWG), ø0.81mm (0.032in) |
| Soldering Characteristics | Solderability per ANSI/J-STD-002 Category 3 | |
| Solder Heat Withstand | RKEF050-RKEF185: per IEC-STD 68-2-20, Test Tb, Method 1a, Condition a; Can Withstand 5s at 260°C ±5°C | |
| | All Other Sizes : per IEC-STD 68-2-20, Test Tb, Method 1a, Condition b; RKEF Can Withstand 10s at 260°C ±5°C | |
| Insulating Material | Cured, Flame-retardant Epoxy Polymer; Meets UL 94V-0 | |
| Operation Temperature | -40°C~85°C | |
| Note: Devices are not designed to be placed through a reflow process. | | |
| Environmental Specifications | | |
| Test | Conditions | Resistance Change |
| Passive Aging | -40°C, 1000 hrs | ±5% |
| | 85°C, 1000 hrs | ±5% |
| Humidity Aging | 85°C, 85%RH, 1000 hrs | ±10% |
| Thermal Shock | 85°C, -40°C (10 Times) | ±10% |
| Solvent Resistance | MIL-STD-202, Method 215F | No Change |

Table R5 — Physical Characteristics and Environmental Specifications

(Cont'd)

| RUEF | | |
|--|--|-------------------|
| Physical Characteristics | | |
| Lead Material | RUEF090 to RUEF250: Tin-plated Copper-clad Steel, 0.205mm ² (24AWG) | |
| | RUEF300 to RUEF900: Tin-plated Copper, 0.52mm ² (20AWG), ø0.81mm (0.032in) | |
| Soldering Characteristics | Solderability per ANSI/J-STD-002 Category 3 | |
| Solder Heat Withstand | per IEC-STD 68-2-20, Test Tb, Method1A, Condition B, Can Withstand 10s at 260°C ±5°C | |
| Insulating Material | Cured, Flame-retardant Epoxy Polymer; Meets UL 94V-0 | |
| Operation Temperature | -40°C~85°C | |
| Note: Devices are not designed to be placed through a reflow process. | | |
| Environmental Specifications | | |
| Test | Conditions | Resistance Change |
| Passive Aging | 70°C, 1000 hrs | ±5% |
| | 85°C, 1000 hrs | ±5% |
| Humidity Aging | 85°C, 85%RH, 1000 hrs | ±5% |
| Thermal Shock | 85°C, -40°C (10 times) | ±5% |
| Solvent Resistance | MIL-STD-202, Method 215F | No Change |
| RUSBF | | |
| Physical Characteristics | | |
| Lead Material | RUSBF075 : Tin-plated Nickel-copper Alloy, 0.205mm ² (24AWG), ø0.51mm/0.020in | |
| | RUSBF090 to RUSBF250: Tin-plated Copper-clad Steel, 0.205mm ² (24AWG), ø0.51mm/0.020in | |
| Soldering Characteristics | Solderability per ANSI/J-STD-002 Category 3 Except | |
| | RUSBF075 Meet ANSI/J-STD-002 Category 1 | |
| Solder Heat Withstand | RUSBF120: per IEC-STD 68-2-20, Test Tb, Method 1A, Condition A; Can Withstand 5s at 260°C ±5°C | |
| | All Others : per IEC-STD 68-2-20, Test Tb, Method 1A, Condition B; Can Withstand 10s at 260°C ±5°C | |
| Insulating Material | Cured, Flame-retardant Epoxy Polymer; Meets UL 94V-0 | |
| Operation Temperature | -40°C~85°C | |
| Note: Devices are not designed to be placed through a reflow process. | | |
| Environmental Specifications | | |
| Test | Conditions | Resistance Change |
| Passive Aging | 70°C, 1000 hrs | ±5% |
| | 85°C, 1000 hrs | ±5% |
| Humidity Aging | 85°C, 85%RH, 1000 hrs | ±5% |
| Thermal Shock | 85°C, -40°C (10 Times) | ±5% |
| Solvent Resistance | MIL-STD-202, Method 215F | No change |

Table R5 — Physical Characteristics and Environmental Specifications

(Cont'd)

| RGEF | |
|---------------------------|---|
| Physical Characteristics | |
| Lead Material | RGEF250 : Tin-plated Copper-clad Steel, 0.205mm ² (24AWG), ø0.51mm/0.020in RGEF300 to RGEF1100 : Tin-plated Copper, 0.52mm ² (20AWG), ø0.81mm/0.032in RGEF1200 to RGEF1400: Tin-plated Copper, 0.82mm ² (18AWG), ø1.0mm/0.04in |
| Soldering Characteristics | Solderability per ANSI/J-STD-002 Category 3 |
| Solder Heat Withstand | RGEF250 and RGEF400 : per IEC 68-2-20, Test Tb, Method 1a, Condition a; can withstand 5s at 260°C ±5°C RGEF500 to RGEF1400 : per IEC 68-2-20, Test Tb, Method 1a, Condition b; can withstand 10s at 260°C ±5°C |
| Insulating Material | Cured, Flame-retardant Epoxy Polymer; Meets UL 94V-0 |
| Operation Temperature | -40°C~85°C |

Note: Devices are not designed to be placed through a reflow process.

| Environmental Specifications | | |
|------------------------------|--------------------------|-------------------|
| Test | Conditions | Resistance Change |
| Passive Aging | -40°C, 1000 hrs | ±5% |
| | 85°C, 1000 hrs | ±5% |
| Humidity Aging | 85°C, 85%RH, 1000 hrs | ±5% |
| Thermal Shock | 85°C, -40°C (10 Times) | ±5% |
| Solvent Resistance | MIL-STD-202, Method 215F | No Change |

| RHEF | |
|---------------------------|--|
| Physical Characteristics | |
| Lead Material | RHEF050 to RHEF200 : Tin-plated Copper-clad Steel, 0.205mm ² (24AWG), ø0.51mm/0.020in RHEF300 to RHEF1100 : Tin-plated Copper, 0.52mm ² (20AWG), ø0.81mm/0.032in RHEF1300 to RHEF1500: Tin-plated Copper, 0.82mm ² (18AWG), ø1.0mm/0.04in |
| Soldering Characteristics | Solderability per ANSI/J-STD-002 Category 3 |
| Solder Heat Withstand | per IEC 68-2-20, Test Tb, Method 1A, Condition B; Can Withstand 10s at 260°C ±5°C |
| Insulating Material | Cured, Flame-retardant Epoxy Polymer; Meets UL 94V-0 |
| Operation Temperature | -40°C~125°C |

Note: Devices are not designed to be placed through a reflow process.

| Environmental Specifications | | |
|------------------------------|--------------------------|-------------------|
| Test | Conditions | Resistance Change |
| Passive Aging | 70°C, 1000 hrs | ±5% |
| | 85°C, 1000 hrs | ±5% |
| Humidity Aging | 85°C, 85%RH, 1000 hrs | ±5% |
| Thermal Shock | 125°C, -40°C (10 Times) | ±5% |
| Solvent Resistance | MIL-STD-202, Method 215F | No Change |

Storage Conditions

| | |
|--------------------|--|
| Storage Conditions | 40°C max, 70% RH max; devices should remain in original sealed bags prior to use. Devices may not meet specified values if these storage conditions are exceeded. |
|--------------------|--|

Note: For the TR devices series, see the telecommunications and networking devices section.

Table R6 — Packaging and Marking Information

| Part Number | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|-----------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| RXEF 60V | | | | | | |
| RXEF005 | 500 | — | — | 10,000 | — | UL, CSA, TÜV, CQC |
| RXEF005-2 | — | 3,000 | — | 15,000 | — | UL, CSA, TÜV, CQC |
| RXEF005-AP | — | — | 2,000 | 10,000 | — | UL, CSA, TÜV, CQC |
| RXEF010 | 500 | — | — | 10,000 | X10 | UL, CSA, TÜV, CQC |
| RXEF010-2 | — | 3,000 | — | 15,000 | X10 | UL, CSA, TÜV, CQC |
| RXEF010-AP | — | — | 2,000 | 10,000 | X10 | UL, CSA, TÜV, CQC |
| RXEF017 | 500 | — | — | 10,000 | X17 | UL, CSA, TÜV, CQC |
| RXEF017-2 | — | 2,500 | — | 12,500 | X17 | UL, CSA, TÜV, CQC |
| RXEF017-AP | — | — | 2,000 | 10,000 | X17 | UL, CSA, TÜV, CQC |
| RXEF 72V | | | | | | |
| RXEF020 | 500 | — | — | 10,000 | X20 | UL, CSA, TÜV, CQC |
| RXEF020-2 | — | 3,000 | — | 15,000 | X20 | UL, CSA, TÜV, CQC |
| RXEF020-AP | — | — | 2,000 | 10,000 | X20 | UL, CSA, TÜV, CQC |
| RXEF025 | 500 | — | — | 10,000 | X25 | UL, CSA, TÜV, CQC |
| RXEF025-2 | — | 3,000 | — | 15,000 | X25 | UL, CSA, TÜV, CQC |
| RXEF025-AP | — | — | 2,000 | 10,000 | X25 | UL, CSA, TÜV, CQC |
| RXEF030 | 500 | — | — | 10,000 | X30 | UL, CSA, TÜV, CQC |
| RXEF030-2 | — | 3,000 | — | 15,000 | X30 | UL, CSA, TÜV, CQC |
| RXEF030-AP | — | — | 2,000 | 10,000 | X30 | UL, CSA, TÜV, CQC |
| RXEF040 | 500 | — | — | 10,000 | X40 | UL, CSA, TÜV, CQC |
| RXEF040-2 | — | 3,000 | — | 15,000 | X40 | UL, CSA, TÜV, CQC |
| RXEF040-AP | — | — | 2,000 | 10,000 | X40 | UL, CSA, TÜV, CQC |
| RXEF050 | 500 | — | — | 10,000 | X50 | UL, CSA, TÜV, CQC |
| RXEF050-2 | — | 3,000 | — | 15,000 | X50 | UL, CSA, TÜV, CQC |
| RXEF050-AP | — | — | 2,000 | 10,000 | X50 | UL, CSA, TÜV, CQC |
| RXEF065 | 500 | — | — | 10,000 | X65 | UL, CSA, TÜV, CQC |
| RXEF065-2 | — | 3,000 | — | 15,000 | X65 | UL, CSA, TÜV, CQC |
| RXEF065-AP | — | — | 2,000 | 10,000 | X65 | UL, CSA, TÜV, CQC |
| RXEF075 | 500 | — | — | 10,000 | X75 | UL, CSA, TÜV, CQC |
| RXEF075-2 | — | 3,000 | — | 15,000 | X75 | UL, CSA, TÜV, CQC |
| RXEF075-AP | — | — | 2,000 | 10,000 | X75 | UL, CSA, TÜV, CQC |
| RXEF090 | 500 | — | — | 10,000 | X90 | UL, CSA, TÜV, CQC |
| RXEF090-2 | — | 3,000 | — | 15,000 | X90 | UL, CSA, TÜV, CQC |
| RXEF090-AP | — | — | 2,000 | 10,000 | X90 | UL, CSA, TÜV, CQC |
| RXEF110 | 500 | — | — | 10,000 | X110 | UL, CSA, TÜV, CQC |
| RXEF110-2 | — | 1,500 | — | 7,500 | X110 | UL, CSA, TÜV, CQC |
| RXEF110-AP | — | — | 1,000 | 5,000 | X110 | UL, CSA, TÜV, CQC |
| RXEF135 | 500 | — | — | 10,000 | X135 | UL, CSA, TÜV, CQC |
| RXEF135-2 | — | 1,500 | — | 7,500 | X135 | UL, CSA, TÜV, CQC |
| RXEF135-AP | — | — | 1,000 | 5,000 | X135 | UL, CSA, TÜV, CQC |
| RXEF160 | 500 | — | — | 10,000 | X160 | UL, CSA, TÜV, CQC |
| RXEF160-2 | — | 1,500 | — | 7,500 | X160 | UL, CSA, TÜV, CQC |
| RXEF160-AP | — | — | 1,000 | 5,000 | X160 | UL, CSA, TÜV, CQC |
| RXEF185 | 500 | — | — | 10,000 | X185 | UL, CSA, TÜV, CQC |
| RXEF185-2 | — | 1,500 | — | 7,500 | X185 | UL, CSA, TÜV, CQC |
| RXEF185-AP | — | — | 1,000 | 5,000 | X185 | UL, CSA, TÜV, CQC |
| RXEF250 | 250 | — | — | 5,000 | X250 | UL, CSA, TÜV, CQC |
| RXEF250-2 | — | 1,000 | — | 5,000 | X250 | UL, CSA, TÜV, CQC |
| RXEF250-AP | — | — | 1,000 | 5,000 | X250 | UL, CSA, TÜV, CQC |

Table R6 – Packaging and Marking Information

(Cont'd)

| Part Number | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|---------------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| RXEF 72V | | | | | | |
| RXEF300 | 250 | — | — | 5,000 | X300 | UL, CSA, TÜV, CQC |
| RXEF300-2 | — | 1,000 | — | 5,000 | X300 | UL, CSA, TÜV, CQC |
| RXEF300-AP | — | — | 1,000 | 5,000 | X300 | UL, CSA, TÜV, CQC |
| RXEF375 | 250 | — | — | 5,000 | X375 | UL, CSA, TÜV, CQC |
| RKEF 60V | | | | | | |
| RKEF050 | 500 | — | — | 10,000 | K50 | UL, CSA, TÜV |
| RKEF065 | 500 | — | — | 10,000 | K65 | UL, CSA, TÜV |
| RKEF075 | 500 | — | — | 10,000 | K75 | UL, CSA, TÜV |
| RKEF090 | 500 | — | — | 10,000 | K90 | UL, CSA, TÜV |
| RKEF110 | 500 | — | — | 10,000 | K110 | UL, CSA, TÜV |
| RKEF135 | 500 | — | — | 10,000 | K135 | UL, CSA, TÜV |
| RKEF160 | 500 | — | — | 10,000 | K160 | UL, CSA, TÜV |
| RKEF185 | 500 | — | — | 10,000 | K185 | UL, CSA, TÜV |
| RKEF250 | 500 | — | — | 10,000 | K250 | UL, CSA, TÜV |
| RKEF300 | 250 | — | — | 5,000 | K300 | UL, CSA, TÜV |
| RKEF375 | 250 | — | — | 5,000 | K375 | UL, CSA, TÜV |
| RKEF400 | 250 | — | — | 5,000 | K400 | UL, CSA, TÜV |
| RKEF500 | 250 | — | — | 5,000 | K500 | UL, CSA, TÜV |
| RUEF 30V | | | | | | |
| RUEF090 | 500 | — | — | 10,000 | U90 | UL, CSA, TÜV, CQC |
| RUEF090-2 | — | 3,000 | — | 15,000 | U90 | UL, CSA, TÜV, CQC |
| RUEF090-AP | — | — | 2,000 | 10,000 | U90 | UL, CSA, TÜV, CQC |
| RUEF110 | 500 | — | — | 10,000 | U110 | UL, CSA, TÜV, CQC |
| RUEF110-2 | — | 3,000 | — | 15,000 | U110 | UL, CSA, TÜV, CQC |
| RUEF110-AP | — | — | 2,000 | 10,000 | U110 | UL, CSA, TÜV, CQC |
| RUEF135 | 500 | — | — | 10,000 | U135 | UL, CSA, TÜV, CQC |
| RUEF135-2 | — | 3,000 | — | 15,000 | U135 | UL, CSA, TÜV, CQC |
| RUEF135-AP | — | — | 2,000 | 10,000 | U135 | UL, CSA, TÜV, CQC |
| RUEF160 | 500 | — | — | 10,000 | U160 | UL, CSA, TÜV, CQC |
| RUEF160-2 | — | 3,000 | — | 15,000 | U160 | UL, CSA, TÜV, CQC |
| RUEF160-AP | — | — | 2,000 | 10,000 | U160 | UL, CSA, TÜV, CQC |
| RUEF185 | 500 | — | — | 10,000 | U185 | UL, CSA, TÜV, CQC |
| RUEF185-2 | — | 3,000 | — | 15,000 | U185 | UL, CSA, TÜV, CQC |
| RUEF185-AP | — | — | 2,000 | 10,000 | U185 | UL, CSA, TÜV, CQC |
| RUEF250 | 500 | — | — | 10,000 | U250 | UL, CSA, TÜV, CQC |
| RUEF250-2 | — | 3,000 | — | 15,000 | U250 | UL, CSA, TÜV, CQC |
| RUEF250-AP | — | — | 2,000 | 10,000 | U250 | UL, CSA, TÜV, CQC |
| RUEF300 | 500 | — | — | 10,000 | U300 | UL, CSA, TÜV, CQC |
| RUEF300-2 | — | 2,500 | — | 12,500 | U300 | UL, CSA, TÜV, CQC |
| RUEF300-AP | — | — | 1,000 | 5,000 | U300 | UL, CSA, TÜV, CQC |
| RUEF400 | 500 | — | — | 10,000 | U400 | UL, CSA, TÜV, CQC |
| RUEF400-2 | — | 1,500 | — | 7,500 | U400 | UL, CSA, TÜV, CQC |
| RUEF400-AP | — | — | 1,000 | 5,000 | U400 | UL, CSA, TÜV, CQC |
| RUEF500 | 250 | — | — | 5,000 | U500 | UL, CSA, TÜV, CQC |
| RUEF500-2 | — | 1,500 | — | 7,500 | U500 | UL, CSA, TÜV, CQC |
| RUEF500-AP | — | — | 1,000 | 5,000 | U500 | UL, CSA, TÜV, CQC |
| RUEF600 | 250 | — | — | 5,000 | U600 | UL, CSA, TÜV, CQC |
| RUEF600-2 | — | 1,000 | — | 5,000 | U600 | UL, CSA, TÜV, CQC |

Table R6 — Packaging and Marking Information

(Cont'd)

| Part Number | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|-------------------------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| RUEF | | | | | | |
| 30V | | | | | | |
| RUEF600-AP | — | — | 1,000 | 5,000 | U600 | UL, CSA, TÜV, CQC |
| RUEF700 | 250 | — | — | 5,000 | U700 | UL, CSA, TÜV, CQC |
| RUEF700-2 | — | 1,000 | — | 5,000 | U700 | UL, CSA, TÜV, CQC |
| RUEF700-AP | — | — | 1,000 | 5,000 | U700 | UL, CSA, TÜV, CQC |
| RUEF800 | 250 | — | — | 5,000 | U800 | UL, CSA, TÜV, CQC |
| RUEF800-2 | — | 1,000 | — | 5,000 | U800 | UL, CSA, TÜV, CQC |
| RUEF800-AP | — | — | 1,000 | 5,000 | U800 | UL, CSA, TÜV, CQC |
| RUEF900 | 250 | — | — | 5,000 | U900 | UL, CSA, TÜV, CQC |
| RUEF900-2 | — | 1,000 | — | 4,000 | U900 | UL, CSA, TÜV, CQC |
| RUEF900-AP | — | — | 1,000 | 4,000 | U900 | UL, CSA, TÜV, CQC |
| RHEF | | | | | | |
| 30V - High Temperature | | | | | | |
| RHEF050 | 500 | — | — | 10,000 | H0.5 | UL, CSA, TÜV |
| RHEF050-2 | — | 2,500 | — | 12,500 | H0.5 | UL, CSA, TÜV |
| RHEF070 | 500 | — | — | 10,000 | H0.7 | UL, CSA, TÜV |
| RHEF070-2 | — | 2,500 | — | 12,500 | H0.7 | UL, CSA, TÜV |
| RHEF100 | 500 | — | — | 10,000 | H1 | UL, CSA, TÜV |
| RHEF100-2 | — | 2,500 | — | 12,500 | H1 | UL, CSA, TÜV |
| RUSBF | | | | | | |
| 16V | | | | | | |
| RUSBF090 | 500 | — | — | 10,000 | R90 | UL, CSA, TÜV |
| RUSBF090-2 | — | 3,000 | — | 15,000 | R90 | UL, CSA, TÜV |
| RUSBF090-AP | — | — | 2,000 | 10,000 | R90 | UL, CSA, TÜV |
| RUSBF110 | 500 | — | — | 10,000 | R110 | UL, CSA, TÜV |
| RUSBF110-2 | — | 3,000 | — | 15,000 | R110 | UL, CSA, TÜV |
| RUSBF110-AP | — | — | 2,000 | 10,000 | R110 | UL, CSA, TÜV |
| RUSBF135 | 500 | — | — | 10,000 | R135 | UL, CSA, TÜV |
| RUSBF135-2 | — | 3,000 | — | 15,000 | R135 | UL, CSA, TÜV |
| RUSBF135-AP | — | — | 2,000 | 10,000 | R135 | UL, CSA, TÜV |
| RUSBF160 | 500 | — | — | 10,000 | R160 | UL, CSA, TÜV |
| RUSBF160-2 | — | 3,000 | — | 15,000 | R160 | UL, CSA, TÜV |
| RUSBF160-AP | — | — | 2,000 | 10,000 | R160 | UL, CSA, TÜV |
| RUSBF185 | 500 | — | — | 10,000 | R185 | UL, CSA, TÜV |
| RUSBF185-2 | — | 3,000 | — | 15,000 | R185 | UL, CSA, TÜV |
| RUSBF185-AP | — | — | 2,000 | 10,000 | R185 | UL, CSA, TÜV |
| RUSBF250 | 500 | — | — | 10,000 | R250 | UL, CSA, TÜV |
| RUSBF250-2 | — | 3,000 | — | 15,000 | R250 | UL, CSA, TÜV |
| RUSBF250-AP | — | — | 2,000 | 10,000 | R250 | UL, CSA, TÜV |
| RGEF | | | | | | |
| 16V | | | | | | |
| RGEF250 | 500 | — | — | 10,000 | G2.5 | UL, CSA, TÜV |
| RGEF250-2 | — | 3,000 | — | 15,000 | G2.5 | UL, CSA, TÜV |
| RGEF250-AP | — | — | 2,000 | 10,000 | G2.5 | UL, CSA, TÜV |
| RGEF300 | 500 | — | — | 10,000 | G3 | UL, CSA, TÜV |
| RGEF300-2 | — | 2,500 | — | 12,500 | G3 | UL, CSA, TÜV |
| RGEF300-AP | — | — | 2,000 | 10,000 | G3 | UL, CSA, TÜV |
| RGEF400 | 500 | — | — | 10,000 | G4 | UL, CSA, TÜV |
| RGEF400-2 | — | 2,500 | — | 12,500 | G4 | UL, CSA, TÜV |
| RGEF400-AP | — | — | 2,000 | 10,000 | G4 | UL, CSA, TÜV |
| RGEF500 | 500 | — | — | 10,000 | G5 | UL, CSA, TÜV |

Table R6 — Packaging and Marking Information

(Cont'd)

| Part Number | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|-------------------------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| RGEF | | | | | | |
| 16V | | | | | | |
| RGEF500-2 | — | 2,000 | — | 10,000 | G5 | UL, CSA, TÜV |
| RGEF500-AP | — | — | 2,000 | 10,000 | G5 | UL, CSA, TÜV |
| RGEF600 | 500 | — | — | 10,000 | G6 | UL, CSA, TÜV |
| RGEF600-2 | — | 2,000 | — | 10,000 | G6 | UL, CSA, TÜV |
| RGEF600-AP | — | — | 2,000 | 10,000 | G6 | UL, CSA, TÜV |
| RGEF700 | 500 | — | — | 10,000 | G7 | UL, CSA, TÜV |
| RGEF700-2 | — | 1,500 | — | 7,500 | G7 | UL, CSA, TÜV |
| RGEF700-AP | — | — | 1,500 | 7,500 | G7 | UL, CSA, TÜV |
| RGEF800 | 500 | — | — | 10,000 | G8 | UL, CSA, TÜV |
| RGEF800-2 | — | 1,500 | — | 7,500 | G8 | UL, CSA, TÜV |
| RGEF800-AP | — | — | 1,500 | 7,500 | G8 | UL, CSA, TÜV |
| RGEF900 | 500 | — | — | 10,000 | G9 | UL, CSA, TÜV |
| RGEF900-2 | — | 1,000 | — | 5,000 | G9 | UL, CSA, TÜV |
| RGEF900-AP | — | — | 1,000 | 5,000 | G9 | UL, CSA, TÜV |
| RGEF1000 | 250 | — | — | 5,000 | G10 | UL, CSA, TÜV |
| RGEF1000-2 | — | 1,000 | — | 5,000 | G10 | UL, CSA, TÜV |
| RGEF1000-AP | — | — | 1,000 | 5,000 | G10 | UL, CSA, TÜV |
| RGEF1100 | 250 | — | — | 5,000 | G11 | UL, CSA, TÜV |
| RGEF1100-2 | — | 1,000 | — | 5,000 | G11 | UL, CSA, TÜV |
| RGEF1100-AP | — | — | 1,000 | 5,000 | G11 | UL, CSA, TÜV |
| RGEF1200 | 250 | — | — | 5,000 | G12 | UL, CSA, TÜV |
| RGEF1200-2 | — | 1,000 | — | 5,000 | G12 | UL, CSA, TÜV |
| RGEF1200-AP | — | — | 1,000 | 5,000 | G12 | UL, CSA, TÜV |
| RGEF1400 | 250 | — | — | 5,000 | G14 | UL, CSA, TÜV |
| RGEF1400-2 | — | 1,000 | — | 5,000 | G14 | UL, CSA, TÜV |
| RGEF1400-AP | — | — | 1,000 | 5,000 | G14 | UL, CSA, TÜV |
| RHEF | | | | | | |
| 16V - High Temperature | | | | | | |
| RHEF200 | 500 | — | — | 10,000 | H2 | UL, CSA, TÜV |
| RHEF200-2 | — | 2,500 | — | 12,500 | H2 | UL, CSA, TÜV |
| RHEF200-AP | — | — | 2,500 | 12,500 | H2 | UL, CSA, TÜV |
| RHEF300 | 500 | — | — | 10,000 | H3 | UL, CSA, TÜV |
| RHEF300-2 | — | 2,000 | — | 10,000 | H3 | UL, CSA, TÜV |
| RHEF300-AP | — | — | 2,000 | 10,000 | H3 | UL, CSA, TÜV |
| RHEF400 | 500 | — | — | 10,000 | H4 | UL, CSA, TÜV |
| RHEF400-2 | — | 1,500 | — | 7,500 | H4 | UL, CSA, TÜV |
| RHEF400-AP | — | — | 1,500 | 7,500 | H4 | UL, CSA, TÜV |
| RHEF450 | 500 | — | — | 10,000 | H4.5 | UL, CSA, TÜV |
| RHEF450-2 | — | 1,500 | — | 7,500 | H4.5 | UL, CSA, TÜV |
| RHEF450-AP | — | — | 1,500 | 7,500 | H4.5 | UL, CSA, TÜV |
| RHEF550 | 500 | — | — | 10,000 | H5.5 | UL, CSA, TÜV |
| RHEF550-2 | — | 2,000 | — | 10,000 | H5.5 | UL, CSA, TÜV |
| RHEF550-AP | — | — | 2,000 | 10,000 | H5.5 | UL, CSA, TÜV |
| RHEF600 | 500 | — | — | 10,000 | H6 | UL, CSA, TÜV |
| RHEF600-2 | — | 2,000 | — | 10,000 | H6 | UL, CSA, TÜV |
| RHEF600-AP | — | — | 2,000 | 10,000 | H6 | UL, CSA, TÜV |
| RHEF650 | 500 | — | — | 10,000 | H6.5 | UL, CSA, TÜV |
| RHEF650-2 | — | 1,500 | — | 7,500 | H6.5 | UL, CSA, TÜV |
| RHEF650-AP | — | — | 1,500 | 7,500 | H6.5 | UL, CSA, TÜV |
| RHEF700 | 500 | — | — | 10,000 | H7 | UL, CSA, TÜV |

Table R6 — Packaging and Marking Information

(Cont'd)

| Part Number | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|-------------------------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| RHEF | | | | | | |
| 16V - High Temperature | | | | | | |
| RHEF700-2 | — | 1,500 | — | 7,500 | H7 | UL, CSA, TÜV |
| RHEF700-AP | — | — | 1,500 | 7,500 | H7 | UL, CSA, TÜV |
| RHEF750 | 500 | — | — | 10,000 | H7.5 | UL, CSA, TÜV |
| RHEF750-2 | — | 1,000 | — | 5,000 | H7.5 | UL, CSA, TÜV |
| RHEF750-AP | — | — | 1,000 | 5,000 | H7.5 | UL, CSA, TÜV |
| RHEF800 | 500 | — | — | 10,000 | H8 | UL, CSA, TÜV |
| RHEF800-2 | — | 1,000 | — | 5,000 | H8 | UL, CSA, TÜV |
| RHEF800-AP | — | — | 1,000 | 5,000 | H8 | UL, CSA, TÜV |
| RHEF900 | 250 | — | — | 5,000 | H9 | UL, CSA, TÜV |
| RHEF900-2 | — | 1,000 | — | 5,000 | H9 | UL, CSA, TÜV |
| RHEF900-AP | — | — | 1,000 | 5,000 | H9 | UL, CSA, TÜV |
| RHEF1000 | 250 | — | — | 5,000 | H10 | UL, CSA, TÜV |
| RHEF1000-2 | — | 1,000 | — | 5,000 | H10 | UL, CSA, TÜV |
| RHEF1000-AP | — | — | 1,000 | 5,000 | H10 | UL, CSA, TÜV |
| RHEF1100 | 250 | — | — | 5,000 | H11 | UL, CSA, TÜV |
| RHEF1100-2 | — | 1,000 | — | 5,000 | H11 | UL, CSA, TÜV |
| RHEF1100-AP | — | — | 1,000 | 5,000 | H11 | UL, CSA, TÜV |
| RHEF1300 | 250 | — | — | 5,000 | H13 | UL, CSA, TÜV |
| RHEF1300-2 | — | 1,000 | — | 5,000 | H13 | UL, CSA, TÜV |
| RHEF1300-AP | — | — | 1,000 | 5,000 | H13 | UL, CSA, TÜV |
| RHEF1400 | 250 | — | — | 5,000 | H14 | UL, CSA, TÜV |
| RHEF1400-2 | — | 1,000 | — | 5,000 | H14 | UL, CSA, TÜV |
| RHEF1400-AP | — | — | 1,000 | 5,000 | H14 | UL, CSA, TÜV |
| RHEF1500 | 250 | — | — | 5,000 | H15 | UL, CSA, TÜV |
| RHEF1500-2 | — | 1,000 | — | 5,000 | H15 | UL, CSA, TÜV |
| RHEF1500-AP | — | — | 1,000 | 5,000 | H15 | UL, CSA, TÜV |
| RUSBF | | | | | | |
| 6V | | | | | | |
| RUSBF075 | 500 | — | — | 10,000 | R75 | UL, CSA, TÜV |
| RUSBF075-2 | — | 3,000 | — | 15,000 | R75 | UL, CSA, TÜV |
| RUSBF075-AP | — | — | 2,000 | 10,000 | R75 | UL, CSA, TÜV |
| RUSBF120 | 500 | — | — | 10,000 | R120 | UL, CSA, TÜV |
| RUSBF120-2 | — | 3,000 | — | 15,000 | R120 | UL, CSA, TÜV |
| RUSBF120-AP | — | — | 2,000 | 10,000 | R120 | UL, CSA, TÜV |
| RUSBF155 | 500 | — | — | 10,000 | R155 | UL, CSA, TÜV |
| RUSBF155-2 | — | 3,000 | — | 15,000 | R155 | UL, CSA, TÜV |
| RUSBF155-AP | — | — | 2,000 | 10,000 | R155 | UL, CSA, TÜV |

Agency Recognitions

| | |
|-----|--|
| UL | File # E74889 |
| CSA | File # CA78165 |
| TÜV | Certificate number available on request (per IEC 60730-1). |

Table R7 — Tape and Reel Specifications

RXEF and RKEF devices are available in tape and reel packaging per EIA468-B/IEC60286-2 standards.
See Figures R21 and R22 for details.

| Description | EIA Mark | Dimension (mm) | Tolerance |
|---|----------------|----------------|------------|
| Carrier Tape Width | W | 18 | -0.5/+1.0 |
| Hold-Down Tape Width | W ₄ | 11 | Minimum |
| Top Distance between Tape Edges | W ₆ | 3 | Maximum |
| Sprocket Hole Position | W ₅ | 9 | -0.5/+0.75 |
| Sprocket Hole Diameter | D ₀ | 4 | ± 0.2 |
| Abscissa to Plane (Straight Lead) (RXEF110 To RXEF300, RKEF135 To RKEF500) | H | 18.5 | ± 2.5 |
| Abscissa to Plane (Kinked Lead) (RXEF010 To RXEF090, RKEF050 To RKEF110) | H ₀ | 16.0 | ± 0.5 |
| Abscissa to Top (RXEF010 To RXEF090, RKEF050 To RKEF185) | H ₁ | 32.2 | Maximum |
| Abscissa to Top* (RXEF110 To RXEF300, RKEF250 To RKEF500) | H ₁ | 47.5 | Maximum |
| Overall Width with Lead Protrusion (RXEF010 To RXEF090, RKEF050 To RKEF185) | C ₁ | 43.2 | Maximum |
| Overall Width with Lead Protrusion* (RXEF110 To RXEF300, RKEF250 To RKEF500) | C ₁ | 58 | Maximum |
| Overall Width without Lead Protrusion (RXEF010 To RXEF090, RKEF050 To RKEF185) | C ₂ | 42.5 | Maximum |
| Overall Width without Lead Protrusion* (RXEF110 To RXEF300, RKEF250 To RKEF500) | C ₂ | 57 | Maximum |
| Lead Protrusion | L ₁ | 1.0 | Maximum |
| Protrusion of Cut-Out | L | 11.0 | Maximum |
| Protrusion beyond Hold-down Tape | l ₂ | Not Specified | — |
| Sprocket Hole Pitch | P ₀ | 12.7 | ± 0.3 |
| Device Pitch (RXEF010 To RXEF090, RKEF050 To RKEF185) | — | 12.7 | ± 0.3 |
| Device Pitch (RXEF110 To RXEF300, RKEF250 To RKEF500) | — | 25.4 | ± 0.61 |
| Pitch Tolerance | — | 20 Consecutive | ± 1 |
| Tape Thickness | T | 0.9 | Maximum |
| Overall Tape and Lead Thickness (RXEF010 To RXEF090, RKEF050 To RKEF185) | T ₁ | 1.5 | Maximum |
| Overall Tape and Lead Thickness (RXEF110 To RXEF300, RKEF250 To RKEF500) | T ₁ | 2.3 | Maximum |
| Splice Sprocket Hole Alignment | — | 0 | ± 0.3 |
| Body Lateral Deviation | Δh | 0 | ± 1.0 |
| Body Tape Plane Deviation | Δp | 0 | ± 1.3 |
| Ordinate to Adjacent Component Lead (RXEF010 To RXEF185, RKEF050 To RKEF300) | P ₁ | 3.81 | ± 0.7 |
| Ordinate to Adjacent Component Lead (RXEF250 To RXEF300, RKEF375 To RKEF500) | P ₁ | 7.62 | ± 0.7 |
| Lead Spacing* (RXEF010 To RXEF185, RKEF050 To RKEF300) | F | 5.05 | ± 0.75 |
| Lead Spacing* (RXEF250 To RXEF300, RKEF375 To RKEF500) | F | 10.15 | ± 0.75 |
| Reel Width (RXEF010 To RXEF090, RKEF050 To RKEF185) | W ₂ | 56.0 | Maximum |
| Reel Width* (RXEF110 To RXEF300, RKEF250 To RKEF500) | W ₂ | 63.5 | Maximum |
| Reel Diameter | A | 370.0 | Maximum |
| Space between Flanges* (RXEF010 To RXEF090, RKEF050 To RKEF185) | W ₁ | 48.00 | Maximum |
| Space between Flanges* (RXEF110 To RXEF300, RKEF250 To RKEF500) | W ₁ | 55.00 | Maximum |
| Arbor Hold Diameter | C | 26.0 | ± 12.0 |
| Core Diameter* | N | 91.0 | Maximum |
| Box | — | 64/372/362 | Maximum |
| Consecutive Missing Places | — | None | — |
| Empty Places per Reel | — | 0.1% | Maximum |

*Differs from EIA specification.

Table R7 — Tape and Reel Specifications

(Cont'd)

RUEF and RUSBF devices are available in tape and reel packaging per EIA468-B/IEC60286-2 standards.
See Figures R21 and R22 for details.

| Description | EIA Mark | Dimension (mm) | Tolerance |
|--|----------------|----------------|------------|
| Carrier Tape Width | W | 18 | -0.5/+1.0 |
| Hold-down Tape Width | W ₄ | 11 | Minimum |
| Top Distance between Tape Edges | W ₆ | 3 | Maximum |
| Sprocket Hole Position | W ₅ | 9 | -0.5/+0.75 |
| Sprocket Hole Diameter | D ₀ | 4 | ± 0.2 |
| Abscissa to Plane (Straight Lead)* (RUEF300 to RUEF900) | H | 18.5 | ± 2.5 |
| Abscissa to Plane (Kinked Lead) (RUSBF075 to RUSBF250, RUEF090 to RUEF250) | H ₀ | 16.0 | ± 0.5 |
| Abscissa to Top (RUSBF075 to RUSBF250, RUEF090 to RUEF300) | H ₁ | 32.2 | Maximum |
| Abscissa to Top* (RUEF400 to RUEF900) | H ₁ | 45.0 | Maximum |
| Overall Width with Lead Protrusion (RUSBF075 to RUSBF250, RUEF090 to RUEF300) | C ₁ | 43.2 | Maximum |
| Overall Width with Lead Protrusion (RUEF400 To RUEF900) | C ₁ | 56 | Maximum |
| Overall Width without Lead Protrusion (RUSBF075 to RUSBF250, RUEF090 to RUEF300) | C ₂ | 42.5 | Maximum |
| Overall Width without Lead Protrusion (RUEF400 to RUEF900) | C ₂ | 56 | Maximum |
| Lead Protrusion | L ₁ | 1.0 | Maximum |
| Protrusion of Cut-out | L | 11 | Maximum |
| Protrusion beyond Hold-down Tape | l ₂ | Not Specified | — |
| Sprocket Hole Pitch | P ₀ | 12.7 | ± 0.3 |
| Device Pitch (RUSBF075 to RUSBF250, RUEF090 to RUEF300) | — | 12.7 | ± 0.3 |
| Device Pitch (RUEF400 to RUEF900) | — | 25.4 | ± 0.6 |
| Pitch Tolerance | — | 20 Consecutive | ± 1 |
| Tape Thickness | T | 0.9 | Maximum |
| Overall Tape and Lead Thickness (RUSBF075 to RUSBF250, RUEF090 to RUEF50) | T ₁ | 1.5 | Maximum |
| Overall Tape and Lead Thickness* (RUEF300 to RUEF900) | T ₁ | 2.3 | Maximum |
| Splice Sprocket Hole Alignment | — | 0 | ± 0.3 |
| Body Lateral Deviation | Δh | 0 | ± 1.0 |
| Body Tape Plane Deviation | Δp | 0 | ± 1.3 |
| Ordinate to Adjacent Component Lead (RUSBF075 to RUSBF250, RUEF090 to RUEF300) | P ₁ | 3.81 | ± 0.7 |
| Ordinate to Adjacent Component Lead (RUEF400 to RUEF900) | P ₁ | 7.62 | ± 0.7 |
| Lead Spacing* (RUSBF075 to RUSBF250, RUEF090 to RUEF400) | F | 5.05 | ± 0.75 |
| Lead Spacing* (RUEF500 to RUEF900) | F | 10.15 | ± 0.75 |
| Reel Width (RUEF090 to RUEF400, RUSBF075 to RUSBF250) | W ₂ | 56.0 | Maximum |
| Reel Width (RUEF500* to RUEF900) | W ₂ | 63.5 | Maximum |
| Reel Diameter | A | 370.0 | Maximum |
| Space between Flanges* (RUEF090 to RUEF400, RUSBF075 to RUSBF250) | W ₁ | 48.0 | Maximum |
| Space between Flanges* (RUEF500 to RUEF900) | W ₁ | 55.0 | Maximum |
| Arbor Hold Diameter | C | 26.0 | ± 12.0 |
| Core Diameter* | N | 91.0 | Maximum |
| Box | — | 64/372/362 | Maximum |
| Consecutive Missing Places | — | None | — |
| Empty Places per Reel | — | 0.1% | Maximum |

*Differs from EIA specification.

Table R7 — Tape and Reel Specifications

(Cont'd)

RGEF and RHEF devices are available in tape and reel packaging per EIA468–B/IEC60286–2 standards. See Figures R21 and R22 for details.

| Description | EIA Mark | Dimension (mm) | Tolerance |
|--|----------------|----------------|------------|
| Carrier Tape Width | W | 18 | -0.5/+1.0 |
| Hold-Down Tape Width | W ₄ | 11 | Minimum |
| Top Distance between Tape Edges | W ₆ | 3 | Maximum |
| Sprocket Hole Position | W ₅ | 9 | -0.5/+0.75 |
| Sprocket Hole Diameter | D ₀ | 4 | ± 0.2 |
| Abscissa to Plane (Straight Lead) (RGEF250 to RGEF1400) | H | 18.5 | ± 2.5 |
| Abscissa to Plane (Kinked Lead) (RHEF050 to RGEF1500) | H ₀ | 16.0 | ± 0.5 |
| Abscissa to Top (RGEF250 to RGEF500, RGEF050 to RGEF450) | H ₁ | 32.2 | Maximum |
| Abscissa to Top* (RGEF600 to RGEF1400, RHEF550 to RHEF1500) | H ₁ | 45.0 | Maximum |
| Overall Width with Lead Protrusion (RGEF250 to RGEF600, RHEF050 to RHEF450) | C ₁ | 43.2 | Maximum |
| Overall Width with Lead Protrusion (RGEF700 to RGEF1400, RHEF550 to RHEF1500) | C ₁ | 55 | Maximum |
| Overall Width without Lead Protrusion (RGEF250 to RGEF600, RHEF050 to RHEF450) | C ₂ | 42.5 | Maximum |
| Overall Width without Lead Protrusion (RGEF700 to RGEF1400, RHEF550 to RHEF1500) | C ₂ | 54 | Maximum |
| Lead Protrusion | L ₁ | 1.0 | Maximum |
| Protrusion of Cut-out | L | 11 | Maximum |
| Protrusion beyond Hold-down Tape | l ₂ | Not Specified | — |
| Sprocket Hole Pitch | P ₀ | 12.7 | ± 0.3 |
| Device Pitch (RGEF250 to RGEF700, RHEF050 to RHEF600) | — | 25.4 | ± 0.61 |
| Device Pitch (RGEF800 to RGEF1400, RHEF650 to RHEF1500) | — | 25.4 | ± 0.6 |
| Pitch Tolerance | — | 20 Consecutive | ± 1 |
| Tape Thickness | T | 0.9 | Maximum |
| Overall Tape and Lead Thickness* (RGEF250 to RGEF1100, RHEF050 to RHEF1100) | T ₁ | 2.0 | Maximum |
| Overall Tape and Lead Thickness* (RGEF1200 to RGEF1400, RHEF1300 to RHEF1500) | T ₁ | 2.3 | Maximum |
| Splice Sprocket Hole Alignment | — | 0 | ± 0.3 |
| Body Lateral Deviation | Δh | 0 | ± 1.0 |
| Body Tape Plane Deviation | Δp | 0 | ± 1.3 |
| Ordinate to Adjacent Component Lead (RGEF250 to RGEF1100, RHEF050 to RHEF900) | P ₁ | 3.81 | ± 0.7 |
| Ordinate to Adjacent Component Lead (RGEF1200 to RGEF1400, RHEF1000 to RHEF1500) | P ₁ | 7.62 | ± 0.7 |
| Lead Spacing* (RGEF250 to RGEF1100, RHEF050 to RHEF900) | F | 5.05 | ± 0.75 |
| Lead Spacing* (RGEF1200 to RGEF1400, RHEF1000 to RHEF1500) | F | 10.15 | ± 0.75 |
| Reel Width (RGEF250 to RGEF600, RHEF050 to RHEF450) | W ₂ | 56.0 | Maximum |
| Reel Width* (RGEF700 to RGEF1400 & RHEF550 to RHEF1500) | W ₂ | 63.5 | Maximum |
| Reel Diameter | A | 370.0 | Maximum |
| Space between Flanges* (RGEF250 to RGEF600, RHEF050 to RHEF450) | W ₁ | 48.0 | Maximum |
| Space between Flanges* (RGEF700 to RGEF400, RHEF550 to RHEF1500) | W ₁ | 55.0 | Maximum |
| Arbor Hold Diameter | C | 26.0 | ± 12.0 |
| Core Diameter* | N | 91.0 | Maximum |
| Box | — | 64/372/362 | Maximum |
| Consecutive Missing Places | — | None | — |
| Empty Places per Reel | — | 0.1% | Maximum |

*Differs from EIA specification.

Figure R21 – EIA Referenced Taped Component Dimensions

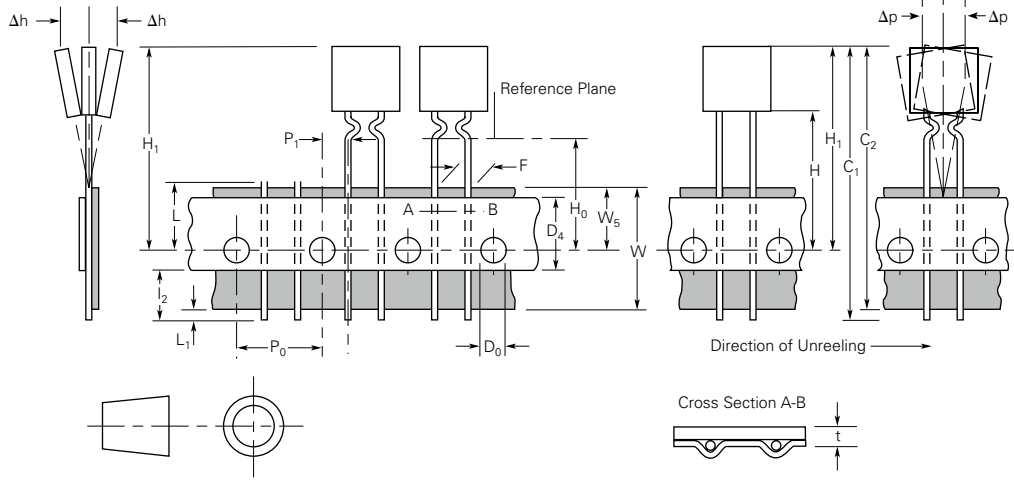
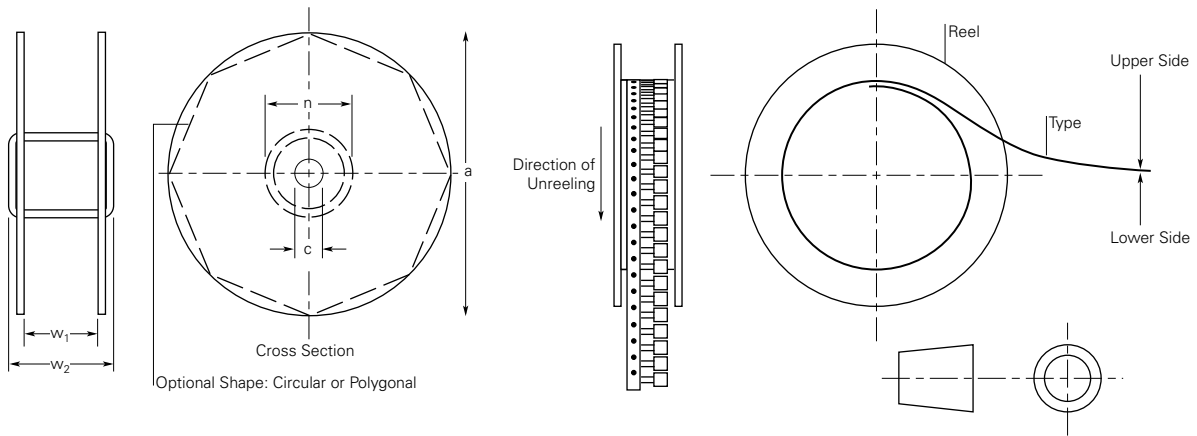


Figure R22 – EIA Referenced Reel Dimensions



Part Numbering System

RUEF 250 U 2

Packaging

Blank = Packaged in Bags
 -1 = 25.4mm (1.0 in) Minimum Lead Length
 -2 = Tape and Reel
 -AP = Ammo Pack
 -X.X = Special Lead Cut Length (in)

Modifier

K = Standard Kinked Lead
 B = Special Kinked Lead
 S = Straight Lead
 U = Uncoated Device

Hold Current Indicator**Product Series**

An "F" at the end of product series indicates Pb-free version of product.

Note: Kinked parts are recommended to control the height of the part on the PCB in non-auto PCB applications.

**Warning :**

- Users should independently evaluate the suitability of and test each product selected for their own application.
- Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- These devices are intended for protection against damage caused by occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Contamination of the PPTC material with certain silicone-based oils or some aggressive solvents can adversely impact the performance of the devices.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- PPTC devices are not recommended for installation in applications where the device is constrained such that its PTC properties are inhibited, for example in rigid potting materials or in rigid housings, which lack adequate clearance to accommodate device expansion.
- Operation in circuits with a large inductance can generate a circuit voltage (Ldi/dt) above the rated voltage of the device.