

# POLYSWITCH RESETTABLE DEVICES

## Radial-Leaded Devices

Littelfuse'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 $\geq$ 900ppm, Cl $\geq$ 900ppm, Br+Cl $\geq$ 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

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### 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. Littelfuse welcomes customer input for additional application ideas for PolySwitch resettable devices.

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

| Voltage Rating          | RXEF<br>72V | RKEF<br>60V | RXEF<br>60V | RUEF<br>30V | RGEF<br>16V | RHEF<br>16V | RHEF<br>30V | RUSBF<br>16V | RUSBF<br>6V |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
| <b>Hold Current (A)</b> |             |             |             |             |             |             |             |              |             |
| 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                   | —           | —           | —           | —           | —           | —           | —           | —            | —           |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

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

| Voltage Rating          | RXEF<br>72V | RKEF<br>60V | RXEF<br>60V | RUEF<br>30V | RGEF<br>16V | RHEF<br>16V | RHEF<br>30V | RUSBF<br>16V | RUSBF<br>6V |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
| <b>Hold Current (A)</b> |             |             |             |             |             |             |             |              |             |
| 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     | —           | —            | —           |

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

| Part<br>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 |
| <b>RXEF<br/>60V</b> |                             |       |      |      |       |      |       |       |       |      |       |
| 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 | —     |
| <b>RXEF<br/>72V</b> |                             |       |      |      |       |      |       |       |       |      |       |
| 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 | —     |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

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 |
| <b>RKEF; 60V</b>                    |                             |       |       |      |      |      |      |      |      |      |       |
| 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 | —     |
| <b>RUEF; 30V</b>                    |                             |       |       |      |      |      |      |      |      |      |       |
| 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 | —     |
| <b>RHEF; 30V - High Temperature</b> |                             |       |       |      |      |      |      |      |      |      |       |
| 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  |
| <b>RUSBF; 16V</b>                   |                             |       |       |      |      |      |      |      |      |      |       |
| 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 | —     |
| <b>RGEF; 16V</b>                    |                             |       |       |      |      |      |      |      |      |      |       |
| 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  | —     |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

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 |
| <b>RGEF; 16V</b>                    |                             |       |       |       |       |       |       |       |      |      |       |
| 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  | —     |
| <b>RHEF; 16V - High Temperature</b> |                             |       |       |       |       |       |       |       |      |      |       |
| 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  |
| <b>RUSBF; 6V</b>                    |                             |       |       |       |       |       |       |       |      |      |       |
| 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



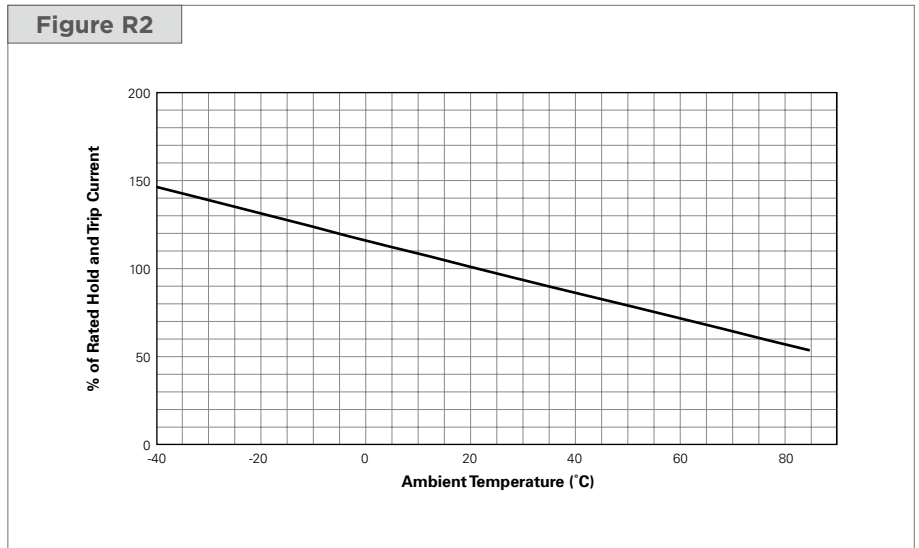
# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Figures R1-R5 – Thermal Derating Curve

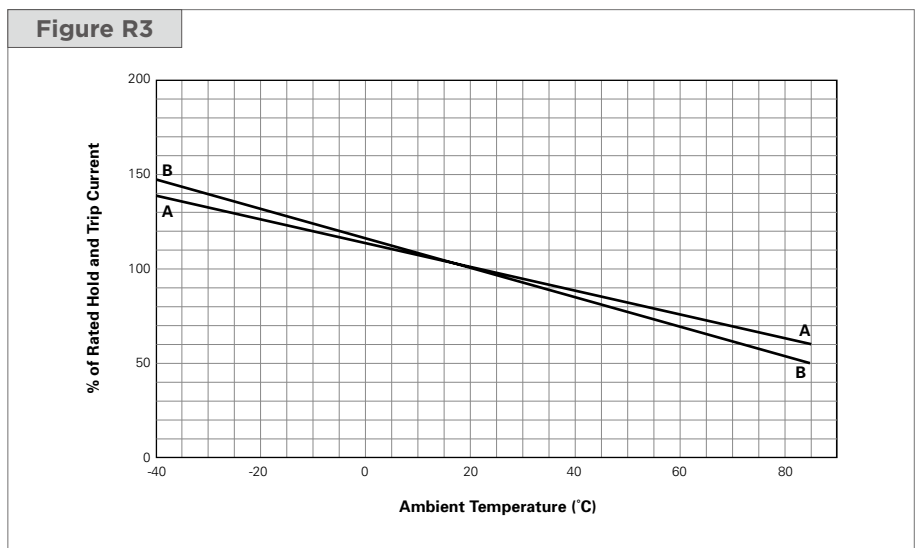
(Cont'd)

RKEF

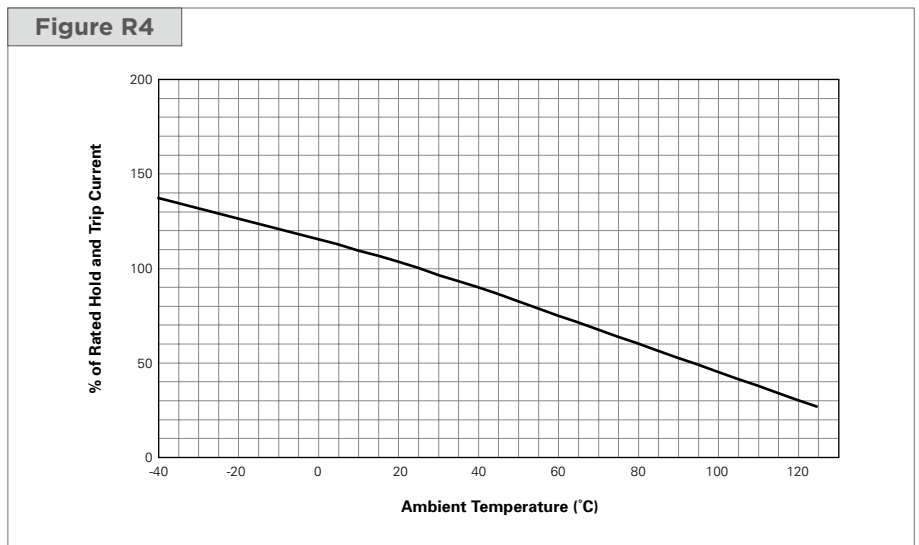


**A =** RUSBF075,  
RUSBF120,  
RUSBF155

**B =** RUEF,  
and all other RUSBF



RHEF



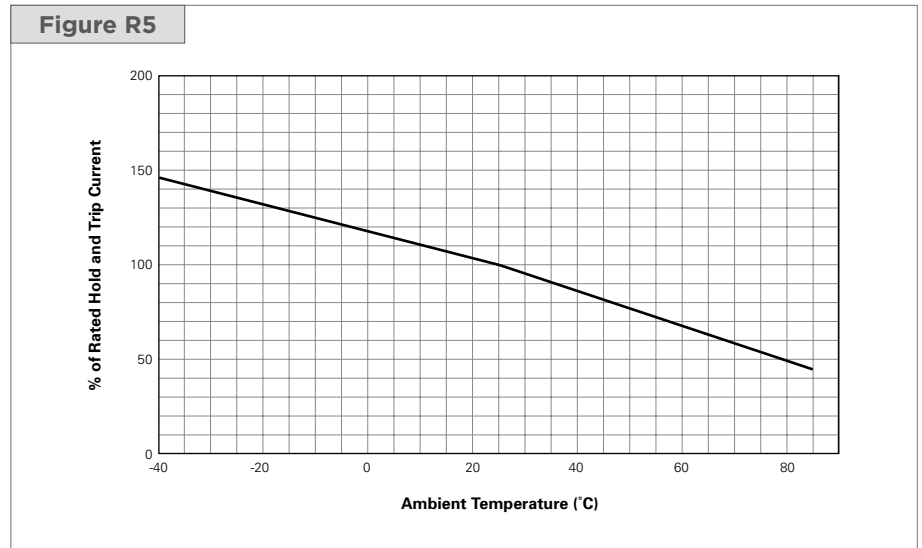
# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Figures R1-R5 – Thermal Derating Curve

(Cont'd)

RGEF



### Table R3 – Electrical Characteristics

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

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Table R3 – Electrical Characteristics

(Cont'd)

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



# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Table R3 – Electrical Characteristics

(Cont'd)

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



**PolySwitch Resettable Devices**  
**Radial-Leaded Devices**  
**Table R4 – Dimensions and Weights**

(Cont'd)

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

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Figures R6-R14 – Dimension Figures

(Cont'd)



### Table R4 – Dimensions and Weights

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

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Table R4 — Dimensions and Weights

(Cont'd)

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

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Table R4 — Dimensions and Weights

(Cont'd)

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

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### 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 |

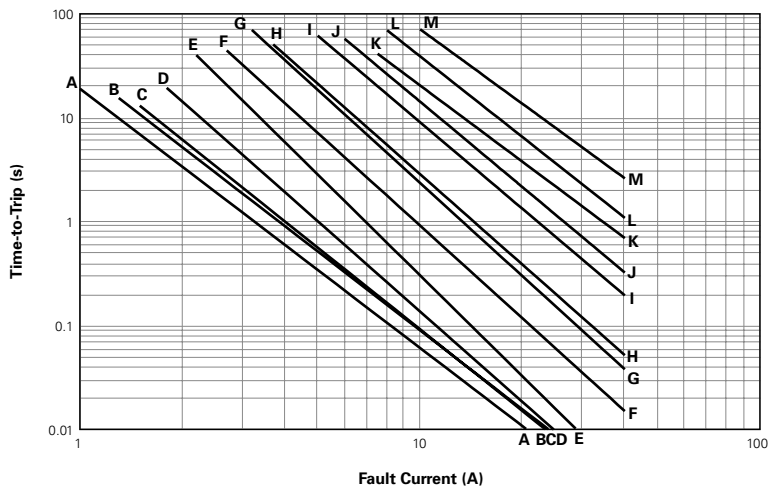
**Figure R15**



#### 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**



# PolySwitch Resettable Devices

## Radial-Leaded Devices

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

(Cont'd)

### RGEF (data at 25°C)

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

Figure R18



### RHEF (data at 25°C)

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

Figure R19



### RUSBF

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

Figure R20



## PolySwitch Resettable Devices

### Radial-Leaded Devices

#### Table R5 — Physical Characteristics and Environmental Specifications

| RXEF                      |  |   |
|---------------------------|--|---|
| Physical Characteristics  |  |   |
| Lead Material             | RXEF005  | : Tin-plated Nickel-copper Alloy, 0.128mm <sup>2</sup> (26AWG), ø0.40mm (0.016in) |
|                           | RXEF010  | : Tin-plated Nickel-copper Alloy, 0.205mm <sup>2</sup> (24AWG), ø0.51mm (0.020in) |
|                           | RXEF017 to 040   | : Tin-plated Copper-clad Steel, 0.205mm <sup>2</sup> (24AWG), ø0.51mm (0.020in)   |
|                           | RXEF050 to 090   | : Tin-plated Copper, 0.205mm <sup>2</sup> (24AWG), ø0.51mm (0.020in)              |
|                           | RXEF110 to 375   | : Tin-plated Copper, 0.52mm <sup>2</sup> (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;<br>Can Withstand 5s at 260°C ±5°C  |   |
|                           | All Other Sizes : per IEC-STD 68-2-20, Test Tb, Method 1a, Condition b;<br>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 <sup>2</sup> (24AWG), ø0.51mm (0.020in) |
|                           | RKEF110 to 500  | : Tin-plated Copper, 0.52mm <sup>2</sup> (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;<br>Can Withstand 5s at 260°C ±5°C        |  |
|                           | All Other Sizes : per IEC-STD 68-2-20, Test Tb, Method 1a, Condition b;<br>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         |



# PolySwitch Resettable Devices

## Radial-Leaded Devices

Table R5 — Physical Characteristics and Environmental Specifications

(Cont'd)

| RUEF                      |   |
|---------------------------|---|
| Physical Characteristics  |   |
| Lead Material             | RUEF090 to RUEF250: Tin-plated Copper-clad Steel, 0.205mm <sup>2</sup> (24AWG)<br>RUEF300 to RUEF900: Tin-plated Copper, 0.52mm <sup>2</sup> (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 <sup>2</sup> (24AWG), ø0.51mm/0.020in<br>RUSBF090 to RUSBF250: Tin-plated Copper-clad Steel, 0.205mm <sup>2</sup> (24AWG), ø0.51mm/0.020in        |
| Soldering Characteristics | Solderability per ANSI/J-STD-002 Category 3 Except<br>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<br>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         |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

Table R5 — Physical Characteristics and Environmental Specifications

(Cont'd)

| RGEF                      |   |
|---------------------------|---|
| Physical Characteristics  |   |
| Lead Material             | RGEF250 : Tin-plated Copper-clad Steel, 0.205mm <sup>2</sup> (24AWG), ø0.51mm/0.020in<br>RGEF300 to RGEF1100 : Tin-plated Copper, 0.52mm <sup>2</sup> (20AWG), ø0.81mm/0.032in<br>RGEF1200 to RGEF1400: Tin-plated Copper, 0.82mm <sup>2</sup> (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;<br>can withstand 5s at 260°C ±5°C<br>RGEF500 to RGEF1400 : per IEC 68-2-20, Test Tb, Method 1a, Condition b;<br>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 <sup>2</sup> (24AWG), ø0.51mm/0.020in<br>RHEF300 to RHEF1100 : Tin-plated Copper, 0.52mm <sup>2</sup> (20AWG), ø0.81mm/0.032in<br>RHEF1300 to RHEF1500: Tin-plated Copper, 0.82mm <sup>2</sup> (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.

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Table R6 – Packaging and Marking Information

| Part Number     | Bag Quantity | Tape and Reel Quantity | Ammo Pack Quantity | Standard Package Quantity | Part Marking | Agency Recognition |
|-----------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| <b>RXEF 60V</b> |              |                        |                    |                           |              |                    |
| 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  |
| <b>RXEF 72V</b> |              |                        |                    |                           |              |                    |
| 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  |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### 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 |
|-------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| <b>RXEF</b> |              |                        |                    |                           |              |                    |
| <b>72V</b>  |              |                        |                    |                           |              |                    |
| 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  |
| <b>RKEF</b> |              |                        |                    |                           |              |                    |
| <b>60V</b>  |              |                        |                    |                           |              |                    |
| 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       |
| <b>RUEF</b> |              |                        |                    |                           |              |                    |
| <b>30V</b>  |              |                        |                    |                           |              |                    |
| 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  |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

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 |
|-------------------------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| <b>RUEF</b>                   |              |                        |                    |                           |              |                    |
| <b>30V</b>                    |              |                        |                    |                           |              |                    |
| 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  |
| <b>RHEF</b>                   |              |                        |                    |                           |              |                    |
| <b>30V - High Temperature</b> |              |                        |                    |                           |              |                    |
| 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       |
| <b>RUSBF</b>                  |              |                        |                    |                           |              |                    |
| <b>16V</b>                    |              |                        |                    |                           |              |                    |
| 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       |
| <b>RGEF</b>                   |              |                        |                    |                           |              |                    |
| <b>16V</b>                    |              |                        |                    |                           |              |                    |
| 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       |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### 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 |
|-------------------------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| <b>RGEF</b>                   |              |                        |                    |                           |              |                    |
| <b>16V</b>                    |              |                        |                    |                           |              |                    |
| 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       |
| <b>RHEF</b>                   |              |                        |                    |                           |              |                    |
| <b>16V - High Temperature</b> |              |                        |                    |                           |              |                    |
| 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       |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

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 |
|-------------------------------|--------------|------------------------|--------------------|---------------------------|--------------|--------------------|
| <b>RHEF</b>                   |              |                        |                    |                           |              |                    |
| <b>16V - High Temperature</b> |              |                        |                    |                           |              |                    |
| 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       |
| <b>RUSBF</b>                  |              |                        |                    |                           |              |                    |
| <b>6V</b>                     |              |                        |                    |                           |              |                    |
| 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). |

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### Table R7 — Tape and Reel Specifications

RXEF and RKEF devices are available in tape and reel packaging per EIA468-B/IEC60286-2 standards.

| Description   | EIA Mark       | Dimension (mm) | Tolerance  |
|---|----------------|----------------|------------|
| Carrier Tape Width  | W              | 18             | -0.5/+1.0  |
| Hold-Down Tape Width  | W <sub>4</sub> | 11             | Minimum    |
| Top Distance between Tape Edges   | W <sub>6</sub> | 3              | Maximum    |
| Sprocket Hole Position  | W <sub>5</sub> | 9              | -0.5/+0.75 |
| Sprocket Hole Diameter  | D <sub>0</sub> | 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 <sub>0</sub> | 16.0           | ± 0.5      |
| Abscissa to Top (RXEF010 To RXEF090, RKEF050 To RKEF185)                        | H <sub>1</sub> | 32.2           | Maximum    |
| Abscissa to Top* (RXEF110 To RXEF300, RKEF250 To RKEF500)                       | H <sub>1</sub> | 47.5           | Maximum    |
| Overall Width with Lead Protrusion (RXEF010 To RXEF090, RKEF050 To RKEF185)     | C <sub>1</sub> | 43.2           | Maximum    |
| Overall Width with Lead Protrusion* (RXEF110 To RXEF300, RKEF250 To RKEF500)    | C <sub>1</sub> | 58             | Maximum    |
| Overall Width without Lead Protrusion (RXEF010 To RXEF090, RKEF050 To RKEF185)  | C <sub>2</sub> | 42.5           | Maximum    |
| Overall Width without Lead Protrusion* (RXEF110 To RXEF300, RKEF250 To RKEF500) | C <sub>2</sub> | 57             | Maximum    |
| Lead Protrusion   | L <sub>1</sub> | 1.0            | Maximum    |
| Protrusion of Cut-Out   | L              | 11.0           | Maximum    |
| Protrusion beyond Hold-down Tape  | I <sub>2</sub> | Not Specified  | —          |
| Sprocket Hole Pitch   | P <sub>0</sub> | 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 <sub>1</sub> | 1.5            | Maximum    |
| Overall Tape and Lead Thickness (RXEF110 To RXEF300, RKEF250 To RKEF500)        | T <sub>1</sub> | 2.3            | Maximum    |
| Splice Sprocket Hole Alignment  | —              | 0              | ± 0.3      |
| Body Lateral Deviation  | Dh             | 0              | ± 1.0      |
| Body Tape Plane Deviation   | Dp             | 0              | ± 1.3      |
| Ordinate to Adjacent Component Lead (RXEF010 To RXEF185, RKEF050 To RKEF300)    | P <sub>1</sub> | 3.81           | ± 0.7      |
| Ordinate to Adjacent Component Lead (RXEF250 To RXEF300, RKEF375 To RKEF500)    | P <sub>1</sub> | 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 <sub>2</sub> | 56.0           | Maximum    |
| Reel Width* (RXEF110 To RXEF300, RKEF250 To RKEF500)                            | W <sub>2</sub> | 63.5           | Maximum    |
| Reel Diameter   | A              | 370.0          | Maximum    |
| Space between Flanges* (RXEF010 To RXEF090, RKEF050 To RKEF185)                 | W <sub>1</sub> | 48.00          | Maximum    |
| Space between Flanges* (RXEF110 To RXEF300, RKEF250 To RKEF500)                 | W <sub>1</sub> | 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.



# PolySwitch Resettable Devices

## Radial-Leaded Devices

### 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.

| Description  | EIA Mark       | Dimension (mm) | Tolerance  |
|--|----------------|----------------|------------|
| Carrier Tape Width   | W              | 18             | -0.5/+1.0  |
| Hold-down Tape Width   | W <sub>4</sub> | 11             | Minimum    |
| Top Distance between Tape Edges  | W <sub>6</sub> | 3              | Maximum    |
| Sprocket Hole Position   | W <sub>5</sub> | 9              | -0.5/+0.75 |
| Sprocket Hole Diameter   | D <sub>0</sub> | 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 <sub>0</sub> | 16.0           | ± 0.5      |
| Abscissa to Top (RUSBF075 to RUSBF250, RUEF090 to RUEF300)                       | H <sub>1</sub> | 38.5           | Maximum    |
| Abscissa to Top* (RUEF400 to RUEF900)  | H <sub>1</sub> | 45.0           | Maximum    |
| Overall Width with Lead Protrusion (RUSBF075 to RUSBF250, RUEF090 to RUEF300)    | C <sub>1</sub> | 43.2           | Maximum    |
| Overall Width with Lead Protrusion (RUEF400 To RUEF900)                          | C <sub>1</sub> | 56             | Maximum    |
| Overall Width without Lead Protrusion (RUSBF075 to RUSBF250, RUEF090 to RUEF300) | C <sub>2</sub> | 42.5           | Maximum    |
| Overall Width without Lead Protrusion (RUEF400 to RUEF900)                       | C <sub>2</sub> | 56             | Maximum    |
| Lead Protrusion  | L <sub>1</sub> | 1.0            | Maximum    |
| Protrusion of Cut-out  | L              | 11             | Maximum    |
| Protrusion beyond Hold-down Tape   | I <sub>2</sub> | Not Specified  | —          |
| Sprocket Hole Pitch  | P <sub>0</sub> | 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 <sub>1</sub> | 1.5            | Maximum    |
| Overall Tape and Lead Thickness* (RUEF300 to RUEF900)                            | T <sub>1</sub> | 2.3            | Maximum    |
| Splice Sprocket Hole Alignment   | —              | 0              | ± 0.3      |
| Body Lateral Deviation   | Dh             | 0              | ± 1.0      |
| Body Tape Plane Deviation  | Dp             | 0              | ± 1.3      |
| Ordinate to Adjacent Component Lead (RUSBF075 to RUSBF250, RUEF090 to RUEF300)   | P <sub>1</sub> | 3.81           | ± 0.7      |
| Ordinate to Adjacent Component Lead (RUEF400 to RUEF900)                         | P <sub>1</sub> | 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, Rusb075 to Rusb250)                              | W <sub>2</sub> | 56.0           | Maximum    |
| Reel Width (RUEF500* to RUEF900)   | W <sub>2</sub> | 63.5           | Maximum    |
| Reel Diameter  | A              | 370.0          | Maximum    |
| Space between Flanges* (RUEF090 to RUEF400, RUSBF075 to RUSBF250)                | W <sub>1</sub> | 48.0           | Maximum    |
| Space between Flanges* (RUEF500 to RUEF900)                                      | W <sub>1</sub> | 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.

# PolySwitch Resettable Devices

## Radial-Leaded Devices

### 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.

| Description  | EIA Mark       | Dimension (mm) | Tolerance  |
|--|----------------|----------------|------------|
| Carrier Tape Width   | W              | 18             | -0.5/+1.0  |
| Hold-Down Tape Width   | W <sub>4</sub> | 11             | Minimum    |
| Top Distance between Tape Edges  | W <sub>6</sub> | 3              | Maximum    |
| Sprocket Hole Position   | W <sub>5</sub> | 9              | -0.5/+0.75 |
| Sprocket Hole Diameter   | D <sub>0</sub> | 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 <sub>0</sub> | 16.0           | ± 0.5      |
| Abscissa to Top (RGEF250 to RGEF500, RGEF050 to RGEF450)                         | H <sub>1</sub> | 38.5           | Maximum    |
| Abscissa to Top* (RGEF600 to RGEF1400, RHEF550 to RHEF1500)                      | H <sub>1</sub> | 45.0           | Maximum    |
| Overall Width with Lead Protrusion (RGEF250 to RGEF600, RHEF050 to RHEF450)      | C <sub>1</sub> | 43.2           | Maximum    |
| Overall Width with Lead Protrusion (RGEF700 to RGEF1400, RHEF550 to RHEF1500)    | C <sub>1</sub> | 55             | Maximum    |
| Overall Width without Lead Protrusion (RGEF250 to RGEF600, RHEF050 to RHEF450)   | C <sub>2</sub> | 42.5           | Maximum    |
| Overall Width without Lead Protrusion (RGEF700 to RGEF1400, RHEF550 to RHEF1500) | C <sub>2</sub> | 54             | Maximum    |
| Lead Protrusion  | L <sub>1</sub> | 1.0            | Maximum    |
| Protrusion of Cut-out  | L              | 11             | Maximum    |
| Protrusion beyond Hold-down Tape   | I <sub>2</sub> | Not Specified  | —          |
| Sprocket Hole Pitch  | P <sub>0</sub> | 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 <sub>1</sub> | 2.0            | Maximum    |
| Overall Tape and Lead Thickness* (RGEF1200 to RGEF1400, RHEF1300 to RHEF1500)    | T <sub>1</sub> | 2.3            | Maximum    |
| Splice Sprocket Hole Alignment   | —              | 0              | ± 0.3      |
| Body Lateral Deviation   | Dh             | 0              | ± 1.0      |
| Body Tape Plane Deviation  | Dp             | 0              | ± 1.3      |
| Ordinate to Adjacent Component Lead (RGEF250 to RGEF1100, RHEF050 to RHEF900)    | P <sub>1</sub> | 3.81           | ± 0.7      |
| Ordinate to Adjacent Component Lead (RGEF1200 to RGEF1400, RHEF1000 to RHEF1500) | P <sub>1</sub> | 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 <sub>2</sub> | 56.0           | Maximum    |
| Reel Width* (RGEF700 to RGEF1400 & RHEF550 to RHEF1500)                          | W <sub>2</sub> | 63.5           | Maximum    |
| Reel Diameter  | A              | 370.0          | Maximum    |
| Space between Flanges* (RGEF250 to RGEF600, RHEF050 to RHEF450)                  | W <sub>1</sub> | 48.0           | Maximum    |
| Space between Flanges* (RGEF700 to RGEF400, RHEF550 to RHEF1500)                 | W <sub>1</sub> | 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.

# PolySwitch Resettable Devices

## Radial-Leaded Devices

Figure R21 — EIA Referenced Taped Component Dimensions



Figure R22 — EIA Referenced Reel Dimensions

