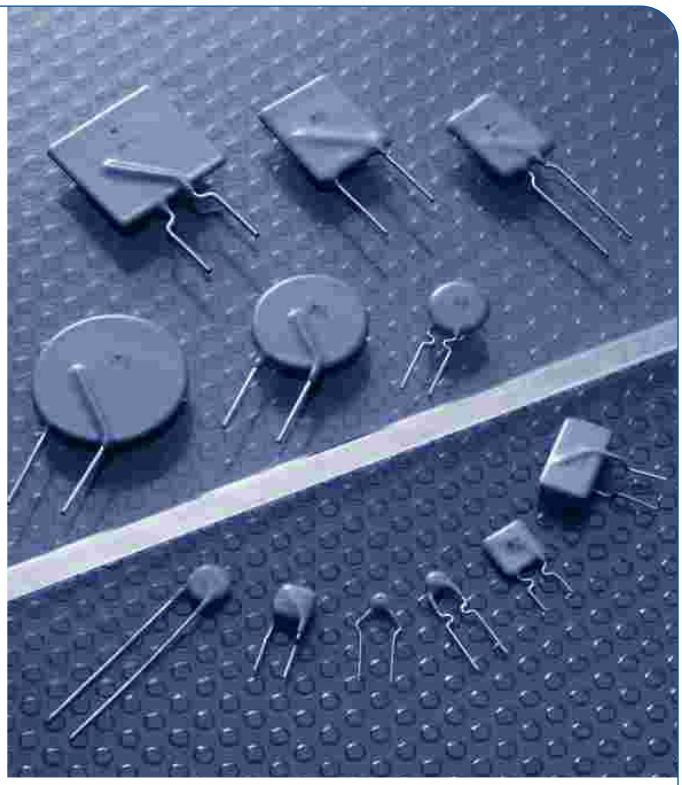
PolySwitch™ Resettable Devices

Radial-leaded Devices

Raychem Circuit Protection has pioneered PPTC technology for over 25 years. Our radial-leaded products represent the widest range of product capabilities.

- RGEF series for hold curents 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
- RTEF series specifically designed for IEEE-1394 applications
- RXEF series for low hold currents (down to 50mA) and high voltage rating (up to 72V)
- LVR series for line voltage applications up to a continuous operating voltage of $265V_{AC}$
- BBRF series for cable telephone applications
- Now offering Pb-free versions of all products. For Pb-free versions of R-line products simply add an "F" to the end of the series description.

Whether for design or volume application, Raychem Circuit Protection's radial-leaded products represent the most comprehensive and complete set of PPTC products available in the industry today.



Benefits

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

Features

- 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 $265V_{AC}$ line voltage applications
- Agency recognition : UL, CSA, TÜV
- Fast time-to-trip
- Low resistance

Applications

- Satellite video receivers
- Industrial controls
- Transformers
- Computer motherboards
- Modems
- USB hub, ports and peripherals
- IEEE1394 ports
- CD-ROMs
- Game machines
- Battery packs
- Phones
- Fax machines
- Analog and digital line cards
- Printers

Protection Application Selection Guide for Radial-leaded Devices

The guide below lists PolySwitch devices that are typically used in these applications.
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.

	PolySwitch Resettable Devices—Key Selection Criteria		
Protection Application	**Small Size**	**Flatter Derating**	**Lower Current Higher Voltage**
Electromagnetic loads	RGEF (<16V), RUEF (<30V)	RHEF (<16V)	RXEF (<72V)
Halogen lighting	RGEF (<16V), RUEF (<30V)	RHEF (<16V)	RXEF (<72V)
Lighting ballast	RXEF (<72V), BBRF (<99V_{AC})		LVR (<265V_{AC})
Loudspeakers	RXEF (<72V)		RXEF (<72V)
Medical equipment	RGEF (<16V), RUEF (<30V)	RHEF (<16V)	RXEF (<72V)
MOSFET devices	RGEF (<16V), RUEF (<30V)	RHEF (<16V)	RXEF (<72V)
Motors, fans and blowers	RXEF (<72V), RGEF (<16V)	RHEF (<16V)	LVR (<265V_{AC})
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)
Security and fire alarm systems	RGEF (<16V), RUEF (<30V)	RHEF (<16V)	RXEF (<72V), LVR (<265V_{AC})
Test and measurement equipment	RGEF (<16V), RUEF (<30V)	RHEF (<16V)	RXEF (<72V), LVR (<265V_{AC})
Transformers	RGEF (<16V), RUEF (<30V)	RHEF (<16V)	RXEF (<72V), LVR (<265V_{AC})
UL 1950/FCC Part 68 requirements	RXEF (<72V)		
DDC computer and consumer electronics	RUEF (<30V)		
IEEE-1394 computer and consumer electronics	RTEF (<33V)		
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)

This list is not exhaustive. Raychem Circuit Protection welcomes customer's input for additional application ideas for PolySwitch resettable devices.

Table R1 - Product Series - Current Rating, Voltage Rating/Typical Resistance for Radial-leaded Devices

Voltage Rating	**LVR 265V_{AC}**	**LVRL 265V_{AC}**	**BBRF 99V**	**RXEF 72V**	**RXEF 60V**	**RTEF 33V**	**RUEF 30V**	**RGEF 16V**	**RHEF 16V**	**RHEF 30V**	**RUSBF 16V**	**RUSBF 6V**
Hold Current (A)	—	—	—	—	—	—	—	—	—	—	—	—
0.050	25Ω	—	—	—	9.2Ω	—	—	—	—	—	—	—
0.080	9.8Ω	—	—	—	—	—	—	—	—	—	—	—
0.100	—	—	—	—	3.50Ω	—	—	—	—	—	—	—
0.110	—	—	—	—	—	—	—	—	—	—	—	—
0.120	4.8Ω	—	—	—	—	—	—	—	—	—	—	—
0.145	—	—	—	—	—	—	—	—	—	—	—	—
0.150	—	—	—	—	—	—	—	—	—	—	—	—
0.160	3.4Ω	—	—	—	—	—	—	—	—	—	—	—
0.170	—	—	—	—	4.30Ω	—	—	—	—	—	—	—
0.180	—	—	—	—	—	—	—	—	—	—	—	—
0.200	—	—	—	2.29Ω	—	—	—	—	—	—	—	—
0.250	1.7Ω	—	—	1.60Ω	—	—	—	—	—	—	—	—
0.300	—	—	—	1.11Ω	—	—	—	—	—	—	—	—
0.330	1.0Ω	—	—	—	—	—	—	—	—	—	—	—
0.400	0.80Ω	—	—	0.71Ω	—	—	—	—	—	—	—	—
0.500	—	—	—	0.64Ω	—	—	—	—	—	0.68Ω	—	—
0.550	0.59Ω	—	1.05Ω	—	—	—	—	—	—	—	—	—
0.650	—	—	—	0.40Ω	—	—	—	—	—	—	—	—
0.700	—	—	—	—	—	—	—	—	—	0.42Ω	—	—
0.750	—	0.325Ω	0.58Ω	0.325Ω	—	—	—	—	—	—	—	0.14Ω
0.900	—	—	—	0.255Ω	—	—	0.095Ω	—	—	—	0.10Ω	—
1.000	—	0.224Ω	—	—	—	—	—	—	—	0.24Ω	—	—
1.100	—	—	—	0.200Ω	—	—	0.075Ω	—	—	—	0.075Ω	—
1.200	—	—	—	—	—	0.097Ω	—	—	—	—	—	0.080Ω
1.250	—	0.148Ω	—	—	—	—	—	—	—	—	—	—
1.350	—	0.138Ω	—	0.155Ω	—	0.080Ω	0.060Ω	—	—	—	0.060Ω	—
1.550	—	—	—	—	—	—	—	—	—	—	—	0.058Ω
1.600	—	—	—	0.115Ω	—	—	0.050Ω	—	—	—	0.050Ω	—
1.850	—	—	—	0.100Ω	—	—	0.045Ω	—	—	—	0.045Ω	—
1.900	—	—	—	—	—	0.054Ω	—	—	—	—	—	—

Table R1 - Product Series - Current Rating, Voltage Rating/Typical Resistance for Radial-leaded Devices ... Cont'd

Voltage Rating	LVR 265V$_{AC}$	LVRL 265V$_{AC}$	BBRF 99V	RXEF 72V	RXEF 60V	RTEF 33V	RUEF 30V	RGEF 16V	RHEF 16V	RHEF 30V	RUSBF 16V	RUSBF 6V
Hold Current (A)	—	—	—	—	—	—	—	—	—	—	—	—
2.000	—	0.431Ω	—	—	—	—	—	—	0.061Ω	—	—	—
2.500	—	—	—	0.065Ω	—	—	0.030Ω	0.038Ω	—	—	0.030Ω	—
3.000	—	—	—	0.050Ω	—	—	0.035Ω	0.0514Ω	—	—	—	—
3.750	—	—	—	0.040Ω	—	—	—	—	—	—	—	—
4.000	—	—	—	—	—	—	0.020Ω	0.030Ω	0.024Ω	—	—	—
4.500	—	—	—	—	—	—	—	—	0.029Ω	—	—	—
5.000	—	—	—	—	—	—	0.020Ω	0.0192Ω	—	—	—	—
6.000	—	—	—	—	—	—	0.013Ω	0.0145Ω	0.0175Ω	—	—	—
6.500	—	—	—	—	—	—	—	—	0.0144Ω	—	—	—
7.000	—	—	—	—	—	—	0.013Ω	0.0105Ω	—	—	—	—
7.500	—	—	—	—	—	—	—	—	0.012Ω	—	—	—
8.000	—	—	—	—	—	—	0.013Ω	0.0086Ω	—	—	—	—
9.000	—	—	—	—	—	—	0.008Ω	0.0070Ω	0.010Ω	—	—	—
10.00	—	—	—	—	—	—	—	0.0056Ω	0.0083Ω	—	—	—
11.00	—	—	—	—	—	—	—	0.0050Ω	—	—	—	—
12.00	—	—	—	—	—	—	—	0.0046Ω	—	—	—	—
13.00	—	—	—	—	—	—	—	—	0.0055Ω	—	—	—
14.00	—	—	—	—	—	—	—	0.0040Ω	—	—	—	—
15.00	—	—	—	—	—	—	—	—	0.0048Ω	—	—	—

Table R2 - Thermal Derating for Radial-leaded Devices [Hold Current (A) at Ambient Temperature (°C)]

		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
	Part Number											
◪	**LVR/LVRL 240V$_{AC}$**											
	LVR005	—	0.08	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02	—
	LVR008	—	0.12	0.10	0.08	0.08	0.07	0.06	0.05	0.04	0.03	—
	LVR012	—	0.18	0.15	0.12	0.12	0.10	0.09	0.07	0.06	0.04	—
	LVR016	—	0.24	0.20	0.16	0.16	0.13	0.11	0.10	0.08	0.05	—
	LVR025	—	0.38	0.32	0.26	0.25	0.21	0.18	0.15	0.13	0.09	—
	LVR033	—	0.50	0.42	0.34	0.33	0.27	0.23	0.20	0.17	0.11	—
	LVR040	—	0.61	0.51	0.41	0.40	0.33	0.28	0.24	0.20	0.14	—
	LVR055K	—	0.80	0.68	0.55	0.54	0.46	0.40	0.35	0.29	0.22	—
	LVR055S	—	0.80	0.68	0.55	0.54	0.46	0.40	0.35	0.29	0.22	—
New	LVRL075S	—	1.08	0.93	0.75	0.74	0.64	0.57	0.51	0.44	0.35	—
New	LVRL100S	—	1.40	1.19	1.00	0.94	0.82	0.73	0.65	0.57	0.45	—
New	LVRL125S	—	1.80	1.53	1.25	1.20	1.04	0.94	0.83	0.73	0.60	—
New	LVRL135S	—	2.00	1.65	1.35	1.29	1.12	1.01	0.90	0.78	0.65	—
New	LVRL200S	—	3.05	2.55	2.00	1.97	1.72	1.55	1.39	1.22	0.98	—
◪	**BBRF 99V$_{AC}$**											
	BBRF550	0.85	0.75	0.65	0.55	—	0.45	0.40	0.35	0.3	0.22	—
	BBRF750	1.15	1.00	0.90	0.75	—	0.61	0.55	0.48	0.41	0.30	—
◪	**RXEF 60V**											
	RXEF005	0.078	0.068	0.06	0.05	0.048	0.04	0.035	0.032	0.027	0.02	—
	RXEF010	0.16	0.14	0.11	0.10	0.096	0.08	0.072	0.067	0.05	0.04	—
	RXEF017	0.26	0.23	0.21	0.17	0.16	0.14	0.12	0.11	0.09	0.07	—
◪	**RXEF 72V**											
	RXEF020	0.31	0.27	0.24	0.20	0.19	0.16	0.14	0.13	0.11	0.08	—
	RXEF025	0.39	0.34	0.30	0.25	0.24	0.20	0.18	0.16	0.14	0.10	—
	RXEF030	0.47	0.41	0.36	0.30	0.29	0.24	0.22	0.20	0.16	0.12	—
	RXEF040	0.62	0.54	0.48	0.40	0.38	0.32	0.29	0.25	0.22	0.16	—
	RXEF050	0.78	0.68	0.60	0.50	0.48	0.41	0.36	0.32	0.27	0.20	—
	RXEF065	1.01	0.88	0.77	0.65	0.62	0.53	0.47	0.41	0.35	0.26	—
	RXEF075	1.16	1.02	0.89	0.75	0.72	0.61	0.54	0.47	0.41	0.30	—
	RXEF090	1.40	1.22	1.07	0.90	0.86	0.73	0.65	0.57	0.49	0.36	—

◪ RoHS compliant, ELV compliant

Table R2 - Thermal Derating for Radial-leaded Devices [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
RXEF 72V											
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	—
RTEF 33V											
RTEF120	1.74	1.56	1.38	1.20	1.16	1.00	0.92	0.82	0.73	0.60	—
RTEF135	1.96	1.76	1.55	1.35	1.31	1.12	1.04	0.92	0.82	0.68	—
RTEF190	2.76	2.47	2.19	1.90	1.84	1.58	1.50	1.29	1.16	0.95	—
RUEF 30V											
RUEF090	1.31	1.17	1.04	0.90	0.87	0.75	0.69	0.61	0.55	0.47	—
RUEF110	1.60	1.43	1.27	1.10	1.07	0.91	0.85	0.75	0.67	0.57	—
RUEF135	1.96	1.76	1.55	1.35	1.31	1.12	1.04	0.92	0.82	0.70	—
RUEF160	2.32	2.08	1.84	1.60	1.55	1.33	1.23	1.09	0.98	0.83	—
RUEF185	2.68	2.41	2.13	1.85	1.79	1.54	1.42	1.26	1.13	0.96	—
RUEF250	3.63	3.25	2.88	2.5	2.43	2.08	1.93	1.70	1.53	1.30	—
RUEF300	4.35	3.90	3.45	3.0	2.91	2.49	2.31	2.04	1.83	1.56	—
RUEF400	5.80	5.20	4.60	4.0	3.88	3.32	3.08	2.72	2.44	2.08	—
RUEF500	7.25	6.50	5.75	5.0	4.85	4.15	3.85	3.40	3.05	2.60	—
RUEF600	8.70	7.80	6.90	6.0	5.82	4.98	4.62	4.08	3.66	3.12	—
RUEF700	10.15	9.10	8.05	7.0	6.79	5.81	5.39	4.76	4.27	3.64	—
RUEF800	11.60	10.40	9.20	8.0	7.76	6.64	6.16	5.44	4.88	4.16	—
RUEF900	13.05	11.70	10.35	9.0	8.73	7.47	6.93	6.12	5.49	4.68	—
RHEF 30V - High Temperature											
RHEF050	0.68	0.62	0.56	0.51	0.5	0.44	0.40	0.36	0.34	0.28	0.12
RHEF070	0.95	0.87	0.79	0.72	0.7	0.62	0.56	0.51	0.47	0.39	0.17
RHEF100	1.36	1.24	1.13	1.03	1.00	0.89	0.80	0.73	0.67	0.56	0.24
RUSBF 16V											
RUSBF090	1.31	1.17	1.04	0.90	0.87	0.75	0.69	0.61	0.55	0.47	—
RUSBF110	1.60	1.43	1.27	1.10	1.07	1.00	0.92	0.75	0.67	0.57	—
RUSBF135	1.96	1.76	1.55	1.35	1.31	1.12	1.04	0.92	0.82	0.70	—
RUSBF160	2.32	2.08	1.84	1.60	1.55	1.33	1.23	1.09	0.98	0.83	—
RUSBF185	2.68	2.41	2.13	1.85	1.79	1.54	1.42	1.26	1.13	0.96	—
RUSBF250	3.63	3.25	2.88	2.50	2.43	2.08	1.93	1.70	1.53	1.30	—
RGEF 16V - High Temperature											
RGEF250	3.7	3.3	3.0	2.6	2.5	2.2	2.0	1.3	1.6	1.2	—
RGEF300	4.4	4.0	3.6	3.1	3.0	2.6	2.4	2.1	1.9	1.4	—
RGEF400	5.9	5.3	4.8	4.1	4.0	3.5	3.2	2.8	2.5	1.9	—
RGEF500	7.3	6.6	6.0	5.2	5.0	4.4	4.0	3.6	3.1	2.4	—
RGEF600	8.8	8.0	7.2	6.2	6.0	5.2	4.8	4.2	3.8	2.8	—
RGEF700	10.3	9.3	8.4	7.3	7.0	6.2	5.6	5.0	4.4	3.3	—
RGEF800	11.7	10.7	9.6	8.3	8.0	6.9	6.4	5.6	5.1	3.7	—
RGEF900	13.2	11.9	10.7	9.4	9.0	7.9	7.2	6.4	5.6	4.2	—
RGEF1000	14.7	13.3	12.0	10.3	10.0	8.7	8.0	7.0	6.3	4.7	—
RGEF1100	16.1	14.6	13.1	11.5	11.0	9.7	8.8	7.8	6.9	5.2	—
RGEF1200	17.6	16.0	14.4	12.4	12.0	10.4	9.6	8.4	7.6	5.6	—
RGEF1400	20.5	18.7	16.8	14.5	14.0	12.1	11.2	9.8	8.9	6.5	—
RHEF 16V - High Temperature											
RHEF200	2.71	2.49	2.26	2.06	2.00	1.77	1.60	1.46	1.34	1.11	0.49
New RHEF300	4.07	3.74	3.41	3.09	3.00	2.65	2.40	2.21	2.00	1.66	0.74
RHEF400	5.40	5.00	4.60	4.10	4.00	3.50	3.20	3.00	2.60	2.20	0.98
RHEF450	6.10	5.60	5.10	4.60	4.50	4.00	3.60	3.30	3.00	2.50	1.10
New 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

RoHS compliant, ELV compliant

Table R2 - Thermal Derating for Radial-leaded Devices [Hold Current (A) at Ambient Temperature (°C)] ... Cont'd

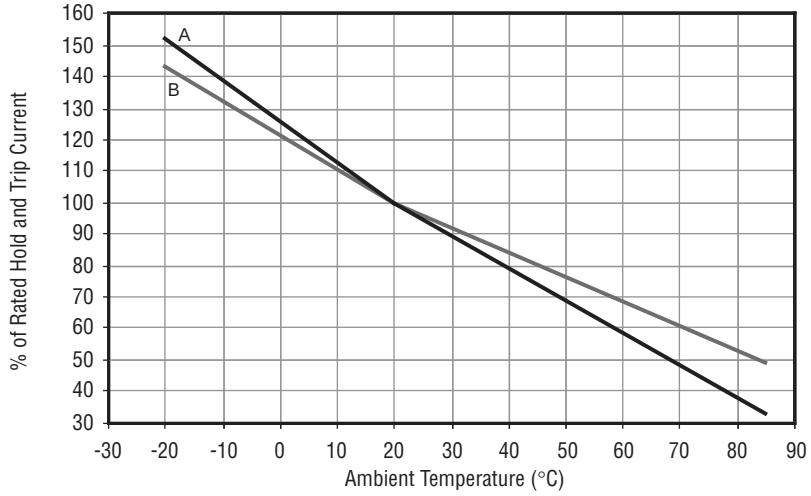
		Maximum Ambient Temperature										
	Part Number	-40°C	-20°C	0°C	20°C	25°C	40°C	50°C	60°C	70°C	85°C	125°C
	RHEF 16V - High Temperature											
	RHEF650	8.80	8.10	7.40	6.70	6.50	5.70	5.30	4.80	4.30	3.60	1.60
New	RHEF700	9.51	8.73	7.95	7.20	7.00	6.17	5.61	5.15	4.66	3.88	1.73
	RHEF750	10.20	9.40	8.60	7.70	7.50	6.60	6.10	5.60	5.00	4.10	1.90
New	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
New	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
New	RHEF1400	19.01	17.46	15.89	14.40	14.00	12.35	11.22	10.29	9.32	7.76	3.45
	RHEF1500	20.40	18.80	17.10	15.50	15.00	13.20	12.10	11.10	9.90	8.30	3.80
	RUSBF 6V											
	RUSBF075	1.05	0.95	0.85	0.75	0.73	0.65	0.60	0.55	0.50	0.43	—
	RUSBF120	1.69	1.52	1.36	1.20	1.16	1.04	0.96	0.88	0.80	0.68	—
	RUSBF155	2.17	1.96	1.75	1.55	1.50	1.34	1.24	1.14	1.03	0.88	—

Figures R1-R5 - Thermal Derating Curve for Radial-leaded Devices

A=LVR

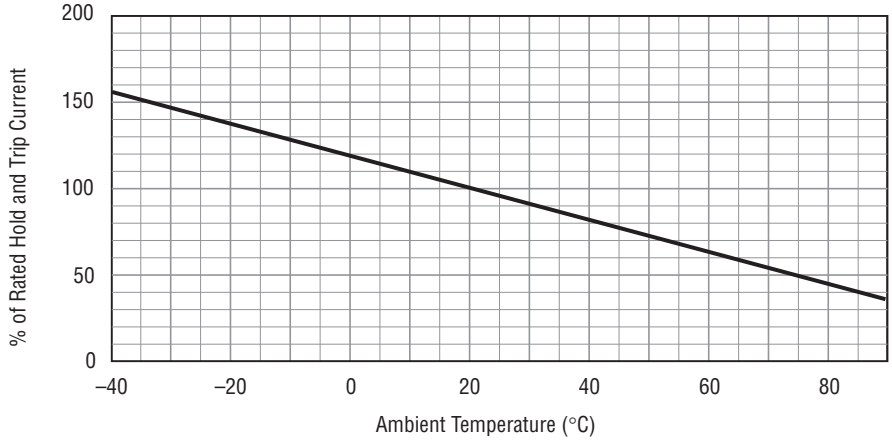
B=LVRL

Figure R1



RXEF and BBRF

Figure R2



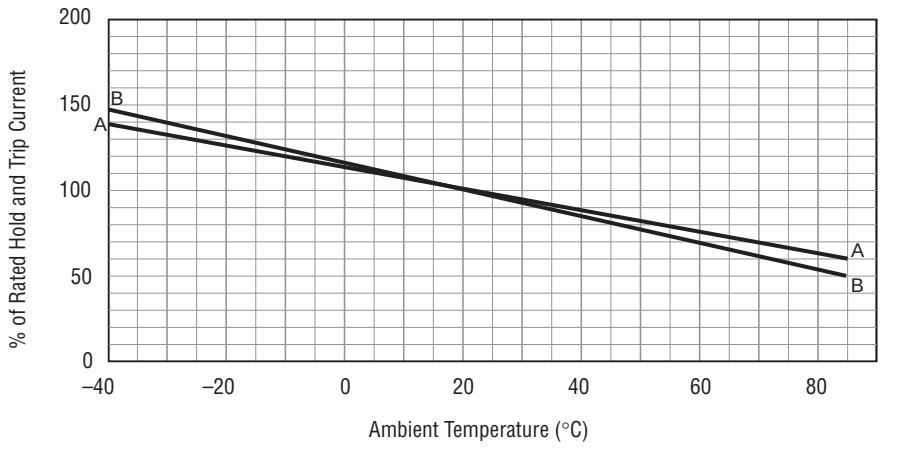
RoHS compliant, ELV compliant

Figures R1-R5 - Thermal Derating Curve for Radial-leaded Devices ... Cont'd

A = RUSBF075, RUSBF120, RUSBF155

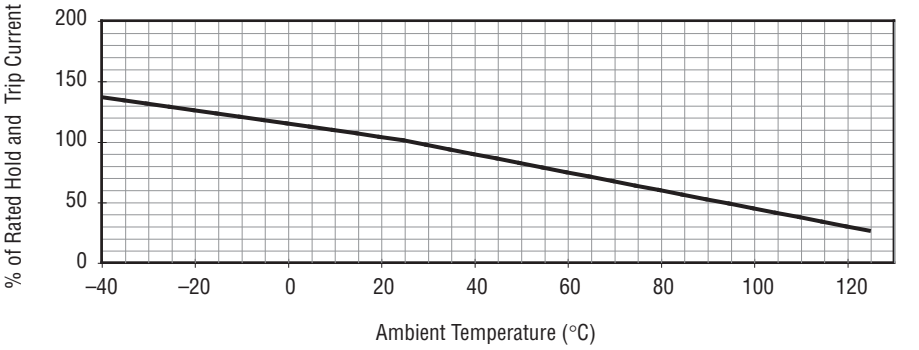
B = RUEF, RTEF, and all other RUSBF

Figure R3



RHEF

Figure R4



RGEF

Figure R5

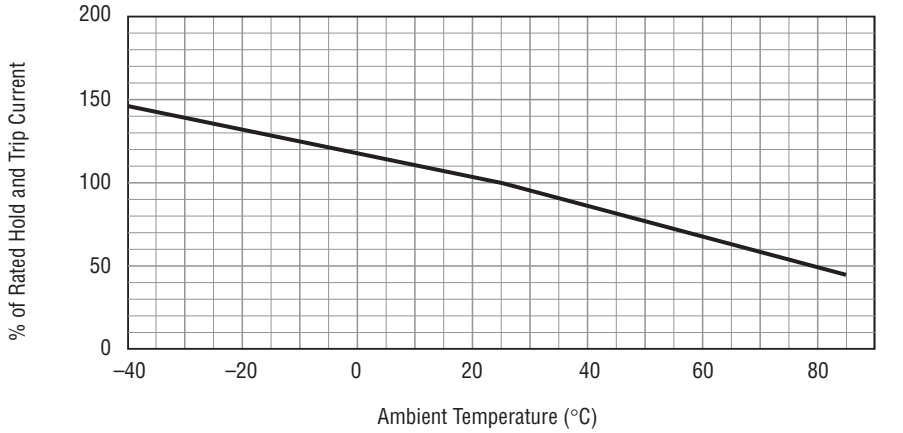


Table R3 - Electrical Characteristics for Radial-leaded Devices

	Part Number	I_H (A)	I_T (A)	V_{Max} (V)	V_{Max} Interrupt (V_{AC})	I_{Max} (A)	$P_{D\ TYP}$ (W)	Max. Time-to-trip (A)	(s)	R_{Min} (Ω)	R_{MAX} (Ω)	$R_{1\ Max}$ (Ω)	Figure for Dimensions	Lead Size [mm² (AWG)]
	LVR/LVRL 240V_{AC}													
	LVR005K	0.05	0.12	240	265	1.0	0.7	0.25	15.0	18.50	31.00	65.00	R7	[0.205mm²(24)]
	LVR005S	0.05	0.12	240	265	1.0	0.7	0.25	15.0	18.50	31.00	65.00	R7	[0.205mm²(24)]
	LVR008K	0.08	0.19	240	265	1.2	0.8	0.40	15.0	7.40	12.00	26.00	R7	[0.205mm²(24)]
	LVR008S	0.08	0.19	240	265	1.2	0.8	0.40	15.0	7.40	12.00	26.00	R7	[0.205mm²(24)]
	LVR012K	0.12	0.30	240	265	1.2	1.0	0.60	15.0	3.00	6.50	12.00	R7	[0.205mm²(24)]
	LVR012S	0.12	0.30	240	265	1.2	1.0	0.60	15.0	3.00	6.50	12.00	R7	[0.205mm²(24)]
	LVR016K	0.16	0.37	240	265	2.0	1.4	0.80	15.0	2.50	4.10	7.80	R7	[0.205mm²(24)]
	LVR016S	0.16	0.37	240	265	2.0	1.4	0.80	15.0	2.50	4.10	7.80	R7	[0.205mm²(24)]
	LVR025K	0.25	0.56	240	265	3.5	1.5	1.25	18.5	1.30	2.10	3.80	R8	[0.33mm²(22)]
	LVR025S	0.25	0.56	240	265	3.5	1.5	1.25	18.5	1.30	2.10	3.80	R8	[0.33mm²(22)]
	LVR033S	0.33	0.74	240	265	4.5	1.7	1.25	18.5	0.83	1.24	2.60	R8	[0.33mm²(22)]
	LVR033K	0.33	0.74	240	265	4.5	1.7	1.25	18.5	0.83	1.24	2.60	R8	[0.33mm²(22)]
	LVR040K	0.40	0.90	240	265	5.5	2.0	2.00	24.0	0.60	0.97	1.90	R8	[0.33mm²(22)]
	LVR040S	0.40	0.90	240	265	5.5	2.0	2.00	24.0	0.60	0.97	1.90	R8	[0.33mm²(22)]
	LVR055K	0.55	1.25	240	265	7.0	3.4	2.75	26.0	0.45	0.73	1.45	R8	[0.52mm²(20)]
	LVR055S	0.55	1.25	240	265	7.0	3.4	2.75	26.0	0.45	0.73	1.45	R8	[0.52mm²(20)]
New	LVRL075S	0.75	1.52	120	135	7.5	1.8	3.75	14.4	0.25	0.39	0.69	R8	[0.81mm²(20)]
New	LVRL100S	1.00	2.00	120	135	10.0	2.2	5.00	13.6	0.18	0.27	0.47	R8	[0.81mm²(20)]
New	LVRL125S	1.25	2.50	120	135	12.5	2.0	6.25	20.0	0.11	0.18	0.33	R8	[0.81mm²(20)]
New	LVRL135S	1.35	2.70	120	135	13.5	2.8	6.75	20.0	0.11	0.17	0.30	R8	[0.81mm²(20)]
New	LVRL200S	2.00	4.20	120	135	20.0	3.9	10.00	36.0	0.08	0.12	0.21	R8	[0.81mm²(20)]
	BBRF 99V_{AC}													
	BBRF550	0.55	1.1	99	—	20	1.5	1.60	60	0.8	1.30	1.95	R6, R15, R16	[0.52mm² (20)]
	BBRF750	0.75	1.5	99	—	20	1.7	2.00	60	0.4	0.75	1.20	R6, R15, R16	[0.52mm² (20)]
	RXEF 60V													
	RXEF005	0.05	0.10	60	—	40	0.26	0.25	5.0	7.3	11.10	20.0	R9, R15, R16	[0.128mm² (26)]
	RXEF010	0.10	0.20	60	—	40	0.38	0.50	4.0	2.5	4.50	7.5	R10, R15, R16	[0.205mm² (24)]
	RXEF017	0.17	0.34	60	—	40	0.48	0.85	3.0	3.3	5.21	8.0	R10, R15, R16	[0.205mm² (24)]
	RXEF 72V													
	RXEF020	0.20	0.40	72	—	40	0.41	1.00	2.2	1.83	2.75	4.40	R10, R15, R16	[0.205mm² (24)]
	RXEF025	0.25	0.50	72	—	40	0.45	1.25	2.5	1.25	1.95	3.00	R10, R15, R16	[0.205mm² (24)]
	RXEF030	0.30	0.60	72	—	40	0.49	1.50	3.0	0.88	1.33	2.10	R10, R15, R16	[0.205mm² (24)]
	RXEF040	0.40	0.80	72	—	40	0.56	2.00	3.8	0.55	0.86	1.29	R10, R15, R16	[0.205mm² (24)]
	RXEF050	0.50	1.00	72	—	40	0.77	2.50	4.0	0.50	0.77	1.17	R10, R15, R16	[0.205mm² (24)]
	RXEF065	0.65	1.30	72	—	40	0.88	3.25	5.3	0.31	0.48	0.72	R10, R15, R16	[0.205mm² (24)]
	RXEF075	0.75	1.50	72	—	40	0.92	3.75	6.3	0.25	0.40	0.60	R10, R15, R16	[0.205mm² (24)]
	RXEF090	0.90	1.80	72	—	40	0.99	4.50	7.2	0.20	0.31	0.47	R10, R15, R16	[0.205mm² (24)]
	RXEF110	1.10	2.20	72	—	40	1.50	5.50	8.2	0.15	0.25	0.38	R11, R15, R16	[0.52mm² (20)]
	RXEF135	1.35	2.70	72	—	40	1.70	6.75	9.6	0.12	0.19	0.30	R11, R15, R16	[0.52mm² (20)]
	RXEF160	1.60	3.20	72	—	40	1.90	8.00	11.4	0.09	0.14	0.22	R11, R15, R16	[0.52mm² (20)]
	RXEF185	1.85	3.70	72	—	40	2.10	9.25	12.6	0.08	0.12	0.19	R11, R15, R16	[0.52mm² (20)]
	RXEF250	2.50	5.00	72	—	40	2.50	12.50	15.6	0.05	0.08	0.13	R11, R15, R16	[0.52mm² (20)]
	RXEF300	3.00	6.00	72	—	40	2.80	15.00	19.8	0.04	0.06	0.10	R11, R15, R16	[0.52mm² (20)]
	RXEF375	3.75	7.50	72	—	40	3.20	18.75	24.0	0.03	0.05	0.08	R11, R15, R16	[0.52mm² (20)]
	RTEF 33V													
	RTEF120	1.20	2.3	33	—	40	0.78	6.00	3.5	0.074	0.12	0.18	R12, R15, R16	[0.205mm² (24)]
	RTEF135	1.35	2.5	33	—	40	0.84	6.75	4.5	0.059	0.10	0.143	R12, R15, R16	[0.205mm² (24)]
	RTEF190	1.90	3.0	33	—	40	0.90	9.50	3.5	0.045	0.063	0.092	R12, R15, R16	[0.205mm² (24)]
	RUEF 30V													
	RUEF090	0.90	1.8	30	—	40	0.6	4.50	5.9	0.070	0.12	0.22	R12, R15, R16	[0.205mm² (24)]
	RUEF110	1.10	2.2	30	—	40	0.7	5.50	6.6	0.050	0.10	0.17	R12, R15, R16	[0.205mm² (24)]
	RUEF135	1.35	2.7	30	—	40	0.8	6.75	7.3	0.040	0.08	0.13	R12, R15, R16	[0.205mm² (24)]
	RUEF160	1.60	3.2	30	—	40	0.9	8.50	8.0	0.030	0.07	0.11	R12, R15, R16	[0.205mm² (24)]
	RUEF185	1.85	3.7	30	—	40	1.0	9.25	8.7	0.030	0.06	0.09	R12, R15, R16	[0.205mm² (24)]
	RUEF250	2.5	5.0	30	—	40	1.2	12.50	10.3	0.020	0.04	0.07	R12, R15, R16	[0.205mm² (24)]
	RUEF300	3.0	6.0	30	—	40	2.0	15.00	10.8	0.020	0.05	0.08	R13, R15, R16	[0.52mm² (20)]

RoHS compliant, ELV compliant

Table R3 - Electrical Characteristics for Radial-leaded Devices ... Cont'd

	Part Number	I_H (A)	I_T (A)	V_{Max} (V)	V_{Max} Interrupt (V_{AC})	I_{Max} (A)	$P_{D\ TYP}$ (W)	Max. Time-to-trip (A)	(s)	R_{Min} (Ω)	R_{MAX} (Ω)	$R_{1\ Max}$ (Ω)	Figures for Dimensions	Lead Size [mm² (AWG)]
	RUEF 30V													
	RUEF400	4.0	8.0	30	—	40	2.5	20.0	12.7	0.010	0.03	0.05	R13, R15, R16	[0.52mm² (20)]
	RUEF500	5.0	10.0	30	—	40	3.0	25.0	14.5	0.010	0.03	0.05	R13, R15, R16	[0.52mm² (20)]
	RUEF600	6.0	12.0	30	—	40	3.5	30.0	16.0	0.005	0.02	0.04	R13, R15, R16	[0.52mm² (20)]
	RUEF700	7.0	14.0	30	—	40	3.8	35.0	17.5	0.005	0.02	0.03	R13, R15, R16	[0.52mm² (20)]
	RUEF800	8.0	16.0	30	—	40	4.0	40.0	18.8	0.005	0.013	0.02	R13, R15, R16	[0.52mm² (20)]
	RUEF900	9.0	18.0	30	—	40	4.2	45.0	20.0	0.005	0.01	0.02	R13, R15, R16	[0.52mm² (20)]
	RHEF 30V - High Temperature*													
	RHEF050	0.50	0.90	30	—	40	0.9	2.5	2.5	0.48	0.79	1.10	R10, R15, R16	[0.205mm² (24)]
	RHEF070	0.7	1.4	16	—	40	1.4	3.5	4.0	0.30	0.54	0.80	R12, R15, R16	[0.205mm² (24)]
	RHEF100	1.0	1.8	30	—	40	1.4	5.0	5.2	0.18	0.31	0.43	R10, R15, R16	[0.205mm² (24)]
	RUSBF 16V													
	RUSBF090	0.90	1.8	16	—	40	0.6	8.0	1.2	0.070	0.120	0.180	R12, R15, R16	[0.205mm² (24)]
	RUSBF110	1.10	2.2	16	—	40	0.7	8.0	2.3	0.050	0.095	0.140	R12, R15, R16	[0.205mm² (24)]
	RUSBF135	1.35	2.7	16	—	40	0.8	8.0	4.5	0.040	0.074	0.115	R12, R15, R16	[0.205mm² (24)]
	RUSBF160	1.60	3.2	16	—	40	0.9	8.0	9.0	0.030	0.061	0.110	R12, R15, R16	[0.205mm² (24)]
	RUSBF185	1.85	3.7	16	—	40	1.0	8.0	10.0	0.030	0.051	0.090	R12, R15, R16	[0.205mm² (24)]
	RUSBF250	2.5	5.0	16	—	40	1.2	8.0	40.0	0.020	0.036	0.060	R12, R15, R16	[0.205mm² (24)]
	RGEF* 16V													
	RGEF250	2.5	4.7	16	—	100	1.0	12.5	5.0	0.022	0.035	0.053	R12, R15, R16	[0.205mm² (24)]
	RGEF300	3.0	5.1	16	—	100	2.3	15.0	1.0	0.038	0.0645	0.0975	R13, R15, R16	[0.52mm (20)]
	RGEF400	4.0	6.8	16	—	100	2.4	20.0	1.7	0.021	0.0385	0.0600	R13, R15, R16	[0.52mm² (20)]
	RGEF500	5.0	8.5	16	—	100	2.6	25.0	2.0	0.015	0.0230	0.0340	R13, R15, R16	[0.52mm (20)]
	RGEF600	6.0	10.2	16	—	100	2.8	30.0	3.3	0.010	0.0185	0.0280	R13, R15, R16	[0.52mm² (20)]
	RGEF700	7.0	11.9	16	—	100	3.0	35.0	3.5	0.0077	0.0130	0.0200	R13, R15, R16	[0.52mm² (20)]
	RGEF800	8.0	13.6	16	—	100	3.0	40.0	5.0	0.0056	0.0110	0.0175	R13, R15, R16	[0.52mm² (20)]
	RGEF900	9.0	15.3	16	—	100	3.3	45.0	5.5	0.0047	0.0092	0.0135	R13, R15, R16	[0.52mm² (20)]
	RGEF1000	10.0	17.0	16	—	100	3.6	50.0	6.0	0.0040	0.0071	0.0102	R13, R15, R16	[0.52mm² (20)]
	RGEF1100	11.0	18.7	16	—	100	3.7	55.0	7.0	0.0037	0.0062	0.0089	R13, R15, R16	[0.52mm² (20)]
	RGEF1200	12.0	20.4	16	—	100	4.2	60.0	7.5	0.0033	0.00595	0.0086	R13, R15, R16	[0.823mm² (18)]
	RGEF1400	14.0	23.8	16	—	100	4.6	70.0	9.0	0.0026	0.00445	0.0064	R13, R15, R16	[0.823mm² (18)]
	RHEF High Temperature* 16V													
	RHEF200	2.0	3.8	16	—	100	1.4	12.5	3.0	0.045	0.074	0.11	R10, R15, R16	[0.205mm² (24)]
New	RHEF300	3.0	6.0	16	—	100	3.0	15.0	5.0	0.033	0.053	0.079	R14, R15, R16	[0.52mm² (20)]
	RHEF400	4.0	7.0	16	—	100	2.0	20.0	8.0	0.018	0.029	0.044	R14, R15, R16	[0.205mm² (24)]
	RHEF450	4.5	7.8	16	—	100	3.6	22.5	3.0	0.022	0.0355	0.054	R14, R15, R16	[0.52mm² (20)]
New	RHEF550	5.5	10.0	16	—	100	3.5	27.5	6.0	0.015	0.025	0.037	R14, R15, R16	[0.52mm² (20)]
	RHEF600	6.0	10.8	16	—	100	4.1	30.0	5.0	0.013	0.0215	0.032	R14, R15, R16	[0.52mm² (20)]
	RHEF650	6.5	12.0	16	—	100	4.3	32.5	5.5	0.011	0.0175	0.026	R14, R15, R16	[0.52mm² (20)]
New	RHEF700	7.0	13.0	16	—	100	4.0	35.0	7.0	0.010	0.016	0.025	R14, R15, R16	[0.52mm² (20)]
	RHEF750	7.5	13.1	16	—	100	4.5	37.5	7.0	0.0094	0.0150	0.022	R14, R15, R16	[0.52mm² (20)]
New	RHEF800	8.0	15.0	16	—	100	4.2	40.0	8.0	0.008	0.0135	0.020	R14, R15, R16	[0.52mm² (20)]
	RHEF900	9.0	16.5	16	—	100	5.0	45	10.0	0.0074	0.0120	0.017	R14, R15, R16	[0.52mm² (20)]
	RHEF1000	10.0	18.5	16	—	100	5.3	50.0	9.0	0.0062	0.0103	0.015	R14, R15, R16	[0.52mm² (20)]
New	RHEF1100	11.0	20.0	16	—	100	5.5	55.0	11.0	0.0055	0.009	0.013	R14, R15, R16	[0.52mm² (20)]
	RHEF1300	13.0	24.0	16	—	100	6.9	65.0	13.0	0.0041	0.0068	0.010	R14, R15, R16	[0.823mm² (18)]
New	RHEF1400	14.0	27.0	16	—	100	6.9	70.0	13.0	0.003	0.006	0.009	R14, R15, R16	[0.823mm² (18)]
	RHEF1500	15.0	28.0	16	—	100	7.0	75.0	20.0	0.0032	0.0063	0.0092	R14, R15, R16	[0.823mm² (18)]
	RUSBF 6V													
	RUSBF075	0.75	1.30	6	—	40	0.3	8.0	0.4	0.110	0.175	0.23	R10, R15, R16	[0.205mm² (24)]
	RUSBF120	1.20	2.00	6	—	40	0.6	8.0	0.5	0.065	0.0975	0.14	R10, R15, R16	[0.205mm² (24)]
	RUSBF155	1.55	2.65	6	—	40	0.6	8.0	0.5	0.043	0.0705	0.10	R10, R15, R16	[0.205mm² (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.

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.

V_{max} : Maximum continuous voltage device can withstand without damage at rated current.

V_{max} Interrupt : Under specified conditions this is the highest voltage that can be applied to the device at the maximum 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_{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

RoHS compliant, ELV compliant

Figures R6-R16 - Dimension Figures for Radial-leaded Devices

Figure R6

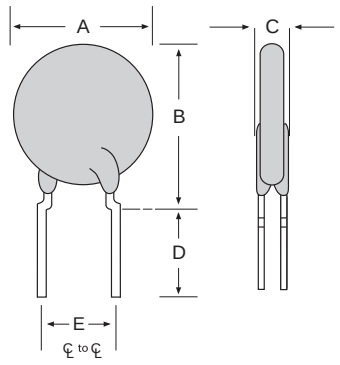


Figure R7

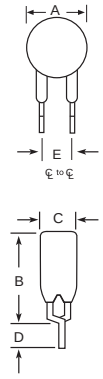


Figure R8

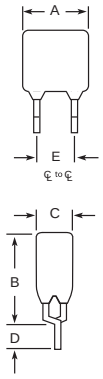


Figure R9

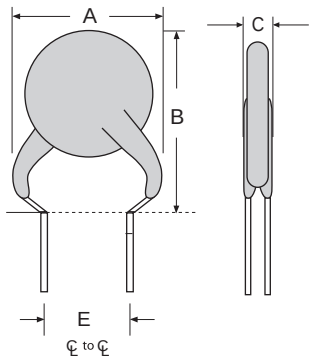


Figure R10

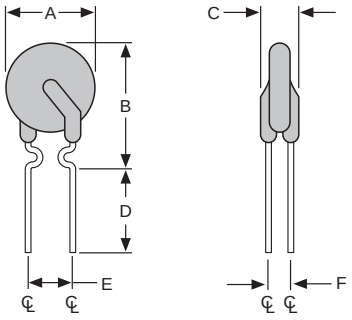


Figure R11

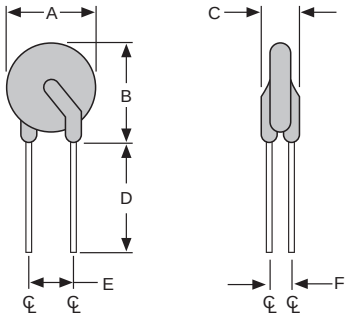
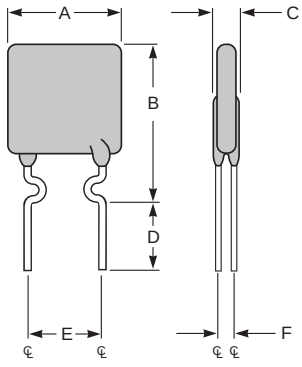
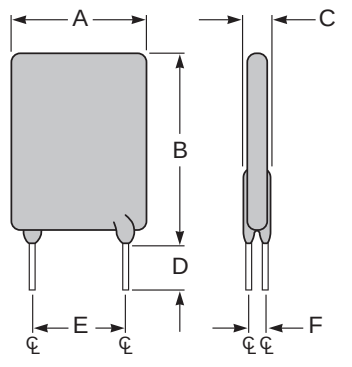


Figure R12





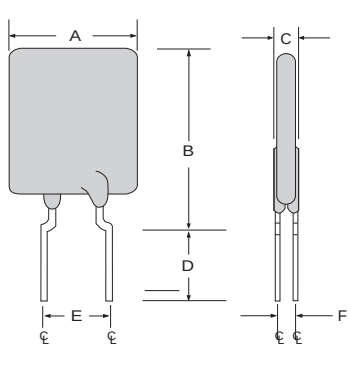


Figure R15

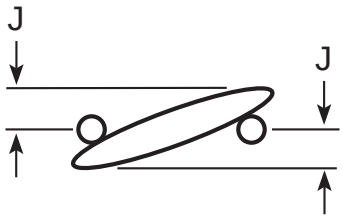


Figure R16

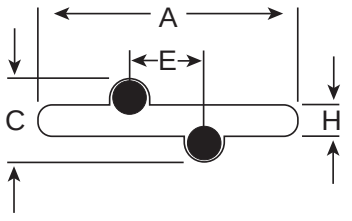


Table R4 - Dimensions for Radial-leaded Devices in Millimeters (Inches)

Part Number	Dimension A Min.	A Max.	B Min.	B Max.	C Min.	C Max.	D Min.	D Max.	E Min.	E Max.	F TYP.	H TYP.	J TYP.	Figure
LVR/LVRL 240V														
LVR005K	—	8.3	—	12.9	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.33)	—	(0.51)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R7
LVR005S	—	8.3	—	10.7	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.33)	—	(0.43)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R7
LVR008K	—	8.3	—	12.9	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.33)	—	(0.51)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R7
LVR008S	—	8.3	—	10.7	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.33)	—	(0.43)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R7
LVR012K	—	8.3	—	12.9	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.33)	—	(0.51)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R7
LVR012S	—	8.3	—	10.7	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.33)	—	(0.43)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	—
LVR016K	—	9.9	—	13.8	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.39)	—	(0.54)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R7
LVR016S	—	9.9	—	12.5	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.39)	—	(0.50)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R7
LVR025K	—	9.6	—	18.8	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.38)	—	(0.74)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R8
LVR025S	—	9.6	—	17.4	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.38)	—	(0.69)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R8
LVR033S	—	11.4	—	16.5	4.3	5.8	7.6	—	—	3.8	—	—	—	
	—	(0.45)	—	(0.65)	(0.17)	(0.23)	(0.30)	—	—	(0.15)	—	—	—	R8
LVR033K	—	11.4	—	19.0	4.3	5.8	7.6	—	—	3.8	—	—	—	
	—	(0.45)	—	(0.75)	(0.17)	(0.23)	(0.30)	—	—	(0.15)	—	—	—	R8
LVR040K	—	11.5	—	20.9	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.46)	—	(0.82)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R8
LVR040S	—	11.5	—	19.5	—	3.8	7.6	—	4.3	5.8	—	—	—	
	—	(0.46)	—	(0.77)	—	(0.15)	(0.30)	—	(0.17)	(0.23)	—	—	—	R8
LVR055K	—	14.0	—	21.7	—	5.8	7.6	—	2.0	3.0	—	—	—	
	—	(0.55)	—	(0.85)	—	(0.23)	(0.30)	—	(0.08)	(0.12)	—	—	—	R8
LVR055S	—	14.0	—	21.7	—	5.8	7.6	—	—	3.8	—	—	—	
	—	(0.55)	—	(0.85)	—	(0.23)	(0.30)	—	—	(0.15)	—	—	—	R8
New LVRL075S	—	10.9	—	17.0	—	5.08	7.6	—	—	—	—	—	—	
	—	(0.43)	—	(0.67)	—	(0.20)	(0.30)	—	—	—	—	—	—	R8
New LVRL100S	—	11.5	—	20.1	—	5.08	7.6	—	—	—	—	—	—	
	—	(0.45)	—	(0.79)	—	(0.20)	(0.30)	—	—	—	—	—	—	R8
New LVRL125S	—	14.0	—	21.7	—	5.08	7.6	—	—	—	—	—	—	
	—	(0.55)	—	(0.85)	—	(0.20)	(0.30)	—	—	—	—	—	—	R8
New LVRL135S	—	16.3	—	21.7	—	5.08	7.6	—	—	—	—	—	—	
	—	(0.64)	—	(0.85)	—	(0.20)	(0.30)	—	—	—	—	—	—	R8
New LVRL200S	—	23.5	—	27.9	—	10.15	7.6	—	—	—	—	—	—	
	—	(0.93)	—	(1.25)	—	(0.40)	(0.30)	—	—	—	—	—	—	R8
BBRF 99V														
BBRF550	—	10.9	—	14.0	—	3.6	7.6	—	4.3	5.8	—	1.37	1.2	R6, R15,
		(0.43)		(0.55)		(0.14)	(0.3)		(0.17)	(0.23)		(0.054)	(0.05)	R16
BBRF750	—	11.9	—	15.5	—	3.6	7.6	—	4.3	5.8	—	1.37	1.2	R6, R15,
		(0.47)		(0.61)		(0.14)	(0.3)		(0.17)	(0.23)		(0.054)	(0.05)	R16

RoHS compliant, ELV compliant

Table R4 - Dimensions for Radial-leaded Devices in Millimeters (Inches) ... Cont'd

Part Number	Dimension A Min.	A Max.	B Min.	B Max.	C Min.	C Max.	D Min.	D Max.	E Min.	E Max.	F TYP.	H TYP.	J TYP.	Figure
RXEF 60V														
RXEF005	—	8.0 (0.32)	—	8.3 (0.33)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.07 (0.042)	1.0 (0.04)	R9, R15, R16
RXEF010	—	7.4 (0.29)	—	11.6 (0.46)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.07 (0.042)	1.0 (0.04)	R10, R15, R16
RXEF017	—	7.4 (0.29)	—	11.6 (0.46)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.68 (0.066)	1.7 (0.07)	R10, R15, R16
RXEF020	—	7.4 (0.29)	—	11.7 (0.46)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.0 (0.04)	R10, R15, R16
RXEF025	—	7.4 (0.29)	—	12.7 (0.50)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.0 (0.04)	R10, R15, R16
RXEF030	—	7.4 (0.29)	—	12.7 (0.50)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.0 (0.04)	R10, R15, R16
RXEF040	—	7.6 (0.30)	—	13.5 (0.53)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.2 (0.05)	R10, R15, R16
RXEF050	—	7.9 (0.31)	—	13.7 (0.54)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.2 (0.05)	R10, R15, R16
RXEF065	—	9.4 (0.37)	—	14.5 (0.57)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.5 (0.06)	R10, R15, R16
RXEF075	—	10.2 (0.40)	—	15.2 (0.60)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.5 (0.06)	R10, R15, R16
RXEF090	—	11.2 (0.44)	—	15.8 (0.62)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.17 (0.046)	1.5 (0.06)	R10, R15, R16
RXEF110	—	12.8 (0.50)	—	17.5 (0.69)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.37 (0.054)	1.2 (0.05)	R11, R15, R16
RXEF135	—	14.5 (0.57)	—	19.1 (0.75)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.37 (0.054)	1.2 (0.05)	R11, R15, R16
RXEF160	—	16.3 (0.64)	—	20.8 (0.82)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.37 (0.054)	1.5 (0.06)	R11, R15, R16
RXEF185	—	17.5 (0.69)	—	22.4 (0.88)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.37 (0.054)	1.5 (0.06)	R11, R15, R16
RXEF250	—	20.8 (0.82)	—	25.4 (1.00)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.37 (0.054)	1.7 (0.07)	R11, R15, R16
RXEF300	—	23.9 (0.94)	—	28.6 (1.13)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.37 (0.054)	1.7 (0.07)	R11, R15, R16
RXEF375	—	27.2 (1.07)	—	31.8 (1.25)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.37 (0.054)	1.7 (0.07)	R11, R15, R16
RTEF 33V														
RTEF120	—	7.4 (0.29)	—	12.2 (0.48)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	0.8 (0.03)	R12, R15, R16
RTEF135	—	7.4 (0.29)	—	14.2 (0.56)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	0.8 (0.03)	R12, R15, R16
RTEF190	—	8.9 (0.35)	—	13.5 (0.53)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.0 (0.04)	R12, R15, R16
RUEF 30V														
RUEF090	—	7.4 (0.29)	—	12.2 (0.48)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	0.8 (0.03)	R12, R15, R16
RUEF110	—	7.4 (0.29)	—	14.2 (0.56)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	0.8 (0.03)	R12, R15, R16
RUEF135	—	8.9 (0.35)	—	13.5 (0.53)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.0 (0.04)	R12, R15, R16
RUEF160	—	8.9 (0.35)	—	15.2 (0.60)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.0 (0.04)	R12, R15, R16
RUEF185	—	10.2 (0.40)	—	15.7 (0.62)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.0 (0.04)	R12, R15, R16
RUEF250	—	11.4 (0.45)	—	18.3 (0.72)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.2 (0.05)	R12, R15, R16
RUEF300	—	11.4 (0.45)	—	16.5 (0.65)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.19 (0.047)	1.5 (0.06)	R13, R15, R16
RUEF400	—	14.0 (0.55)	—	19.3 (0.76)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	1.19 (0.047)	1.7 (0.07)	R13, R15, R16

RoHS compliant, ELV compliant

Table R4 - Dimensions for Radial-leaded Devices in Millimeters (Inches) ... Cont'd

Part Number	Dimension A Min.	A Max.	B Min.	B Max.	C Min.	C Max.	D Min.	D Max.	E Min.	E Max.	F TYP.	H TYP.	J TYP.	Figure
RUEF 30V														
RUEF500	—	14.0 (0.55)	—	24.1 (0.95)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.19 (0.047)	1.0 (0.04)	R13, R15, R16
RUEF600	—	16.5 (0.65)	—	24.1 (0.95)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.19 (0.047)	1.0 (0.04)	R13, R15, R16
RUEF700	—	19.1 (0.75)	—	25.9 (1.02)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.19 (0.047)	1.2 (0.05)	R13, R15, R16
RUEF800	—	21.6 (0.85)	—	28.4 (1.12)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.19 (0.047)	1.5 (0.06)	R13, R15, R16
RUEF900	—	24.1 (0.95)	—	29.0 (1.14)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	—	1.19 (0.047)	1.5 (0.06)	R13, R15, R16
RHEF 30V - High Temperature														
RHEF050	—	7.4 (0.29)	—	12.7 (0.50)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	—	—	—
RHEF070	—	6.86 (0.27)	—	10.8 (0.425)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	1.24 (0.049)	1.2 (0.05)	R12, R15, R16
RHEF100	—	9.7 (0.38)	—	13.6 (0.54)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	—	—	—
RUSBF 16V														
RUSBF090	—	7.4 (0.29)	—	12.2 (0.48)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	0.8 (0.03)	R12, R15, R16
RUSBF110	—	7.4 (0.29)	—	14.2 (0.56)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	0.8 (0.03)	R12, R15, R16
RUSBF135	—	8.9 (0.35)	—	13.5 (0.53)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.0 (0.04)	R12, R15, R16
RUSBF160	—	8.9 (0.35)	—	15.2 (0.60)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.0 (0.04)	R12, R15, R16
RUSBF185	—	10.2 (0.40)	—	15.7 (0.62)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.0 (0.04)	R12, R15, R16
RUSBF250	—	11.4 (0.45)	—	18.3 (0.72)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	0.89 (0.035)	1.2 (0.05)	R12, R15, R16
RGEF 16V														
RGEF250	—	8.9 (0.35)	—	12.8 (0.50)	—	3.0 (0.12)	3.18 (0.13)	6.18 (0.24)	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	1.2 (0.05)	R12, R15, R16
RGEF300	6.1 (0.24)	7.1 (0.28)	6.1 (0.24)	11.0 (0.43)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	1.2 (0.05)	R13, R15, R16
RGEF400	7.9 (0.31)	8.9 (0.35)	7.9 (0.31)	12.8 (0.50)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	1.4 (0.055)	R13, R15, R16
RGEF500	9.4 (0.37)	10.4 (0.41)	9.4 (0.37)	14.3 (0.56)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	1.6 (0.06)	R13, R15, R16
RGEF600	9.7 (0.38)	10.7 (0.42)	12.2 (0.48)	17.1 (0.67)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	1.6 (0.06)	R13, R15, R16
RGEF700	10.2 (0.40)	11.2 (0.44)	14.7 (0.58)	19.7 (0.78)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	1.7 (0.067)	R13, R15, R16
RGEF800	11.7 (0.46)	12.7 (0.50)	16.0 (0.63)	20.9 (0.82)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	1.8 (0.07)	R13, R15, R15
RGEF900	13.0 (0.51)	14.0 (0.55)	16.8 (0.66)	21.7 (0.85)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	2.0 (0.08)	R13, R15, R16
RGEF1000	15.5 (0.61)	16.5 (0.65)	21.1 (0.83)	25.2 (0.99)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.21 (0.05)	1.24 (0.049)	2.0 (0.08)	R13, R15, R16
RGEF1100	16.5 (0.65)	17.5 (0.69)	21.1 (0.83)	26.0 (1.02)	2.0 (0.08)	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	1.24 (0.049)	2.4 (0.09)	R13, R15, R16
RGEF1200	16.4 (0.65)	17.5 (0.69)	22.6 (0.89)	28.0 (1.10)	2.3 (0.09)	3.5 (0.14)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	1.4 (0.06)	1.45 (0.057)	1.5 (0.06)	R13, R15, R16
RGEF1400	22.4 (0.88)	23.5 (0.925)	22.6 (0.89)	27.9 (1.10)	2.3 (0.09)	3.5 (0.14)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	1.4 (0.06)	1.45 (0.057)	1.9 (0.075)	R13, R15, R16
RHEF 16V - High Temperature														
RHEF200	—	9.4 (0.37)	14.4 (0.57)	—	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	—	—	R10, R15, R16

RoHS compliant, ELV compliant

Table R4 - Dimensions for Radial-leaded Devices in Millimeters (Inches) ... Cont'd

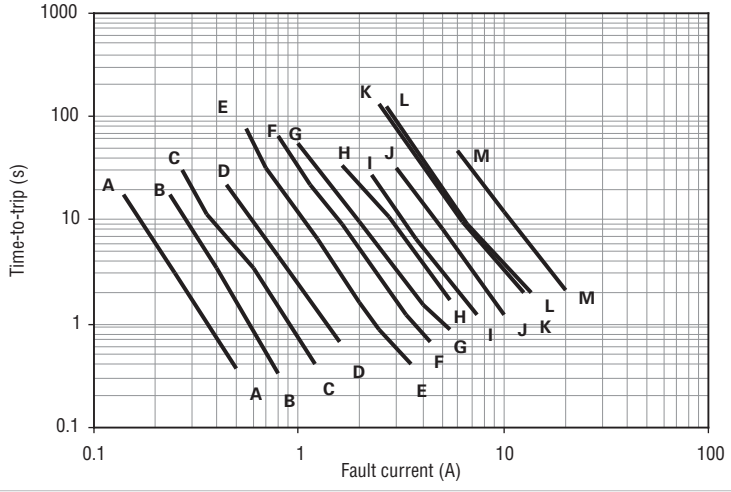
	Part Number	Dimension A Min.	A Max.	B Min.	B Max.	C Min.	C Max.	D Min.	D Max.	E Min.	E Max.	F TYP.	H TYP.	J TYP.	Figure
	RHEF 16V - High Temperature														
New	RHEF300	—	8.8 (0.35)	—	13.8 (0.55)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	—	—	R14, R15 R16
	RHEF400	—	11.4 (0.45)	—	18.0 (0.71)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	1.24 (0.049)	1.6 (0.06)	R14, R15, R16
	RHEF450	—	10.4 (0.41)	—	15.6 (0.61)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	1.24 (0.049)	1.6 (0.06)	R14, R15, R16
New	RHEF550	—	11.2 (0.44)	—	18.9 (0.74)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	—	—	R14, R15
	RHEF600	—	11.2 (0.44)	—	21.0 (0.83)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	1.24 (0.049)	1.7 (0.067)	R14, R15, R16
	RHEF650	—	12.7 (0.50)	—	22.2 (0.88)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	1.24 (0.049)	1.8 (0.07)	R14, R15, R16
New	RHEF700	—	14.0 (0.55)	—	21.9 (0.86)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	—	—	R14, R15
	RHEF750	—	14.0 (0.55)	—	23.5 (0.93)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	1.24 (0.049)	2.0 (0.08)	R14, R15, R16
New	RHEF800	—	16.5 (0.65)	—	22.5 (0.88)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	1.2 (0.05)	—	—	R14, R15 R16
	RHEF900	—	16.5 (0.65)	—	25.7 (1.01)	—	3.0 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.8 (0.23)	—	—	—	R14, R15 R16
	RHEF1000	—	17.5 (0.69)	—	26.5 (1.04)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	1.2 (0.05)	1.24 (0.049)	1.5 (0.06)	R14, R15, R16
New	RHEF1100	—	21.0 (0.83)	—	26.1 (1.03)	—	3.0 (0.12)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	1.2 (0.05)	—	—	R14, R15 R16
	RHEF1300	—	23.5 (0.925)	—	28.7 (1.13)	—	3.6 (0.14)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	1.4 (0.06)	1.45 (0.057)	1.9 (0.084)	R14, R15, R16
New	RHEF1400	—	23.5 (0.93)	—	28.6 (1.13)	—	3.6 (0.14)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	1.4 (0.06)	—	—	R14, R15 R16
	RHEF1500	—	23.5 (0.925)	—	28.7 (1.13)	—	3.6 (0.14)	7.6 (0.30)	—	9.4 (0.37)	10.9 (0.43)	1.4 (0.06)	1.45 (0.057)	1.9 (0.084)	R14, R15, R16
	RUSBF 6V														
	RUSBF075	—	6.9 (0.27)	—	11.4 (0.45)	—	3.1 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.9 (0.23)	—	0.91 (0.036)	1.0 (0.04)	R10, R15, R16
	RUSBF120	—	6.9 (0.27)	—	11.7 (0.46)	—	3.1 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.9 (0.23)	—	0.91 (0.036)	1.0 (0.04)	R10, R15, R16
	RUSBF155	—	6.9 (0.27)	—	11.7 (0.46)	—	3.1 (0.12)	7.6 (0.30)	—	4.3 (0.17)	5.9 (0.23)	—	0.91 (0.036)	1.0 (0.04)	R10, R15, R16

Figures R17-R23 - Typical Time-to-trip curves at 20°C for Radial-leaded Devices

LVR/LVRL

A = LVR005
B = LVR008
C = LVR012
D = LVR016
E = LVR025
F = LVR033
G = LVR040
H = LVR055
I = LVRL075
J = LVRL100
K = LVRL125
L = LVRL135
M = LVRL200

Figure R17



RoHS compliant, ELV compliant

Figures R17-R23 - Typical Time-to-trip curves at 20°C for Radial-leaded Devices ... Cont'd

BBRF

A = BBRF550

B = BBRF750

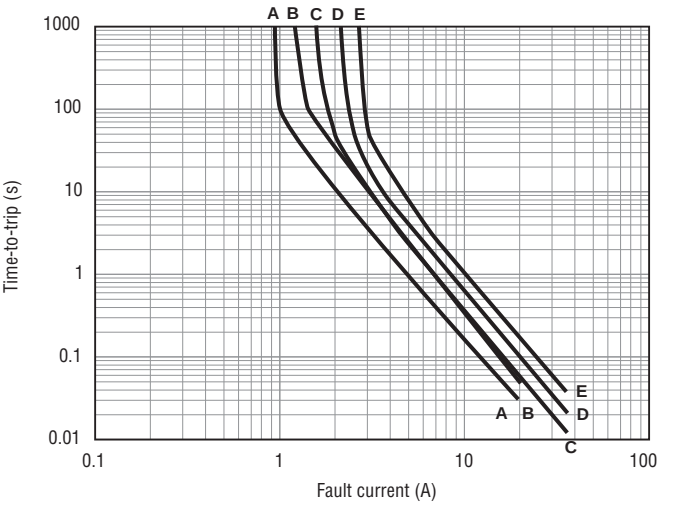
RTEF

C = RTEF120

D = RTEF135

E = RTEF190

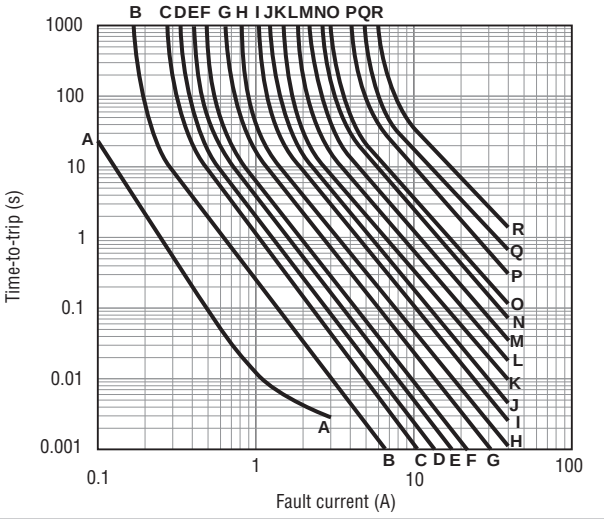
Figure R18



RXEF

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

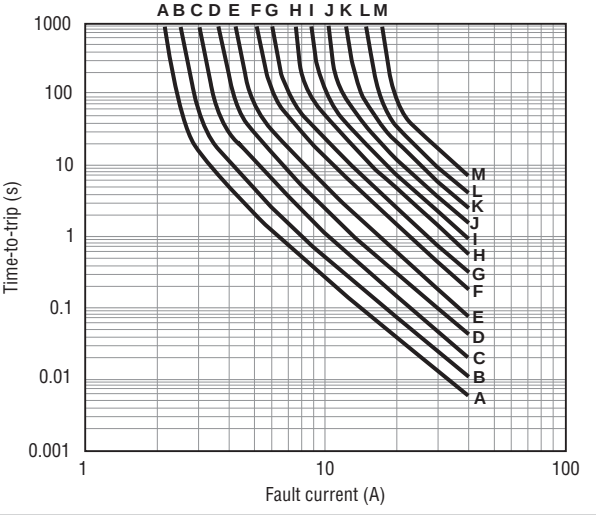
Figure R19



RUEF

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

Figure R20

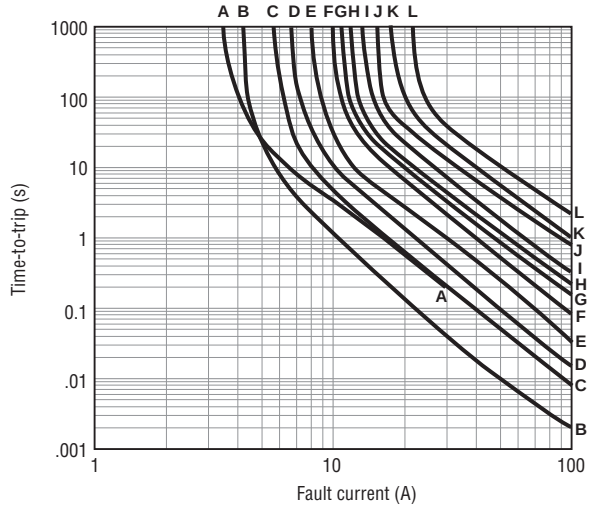


Figures R17-R23 - Typical Time-to-trip curves at 20°C for Radial-leaded Devices ... Cont'd

RGEF (data at 25°C)

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

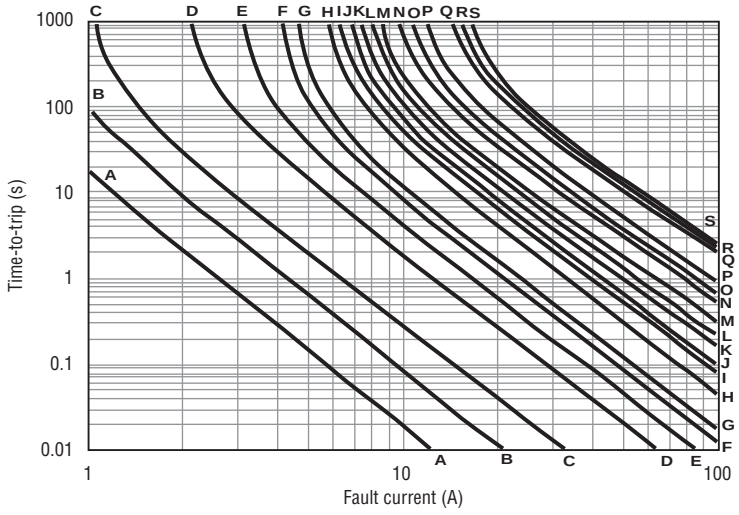
Figure R21



RHEF (data at 25°C)

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

Figure R22



RUSBF

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

Figure R23

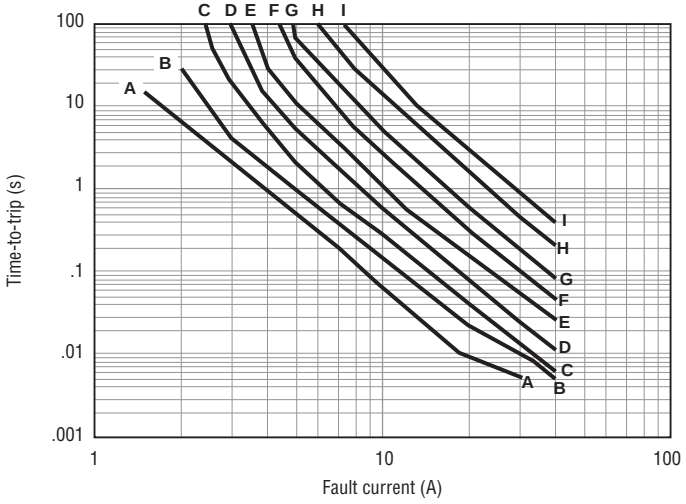


Table R5 - Physical Characteristics and Environmental Specifications for Radial-leaded Devices

LVR Physical Characteristics

Lead material	LVR005-016: Tin-plated copper, 0.205mm² (24AWG), ø0.51mm (0.020in.) LVR025-040: Tin-plated copper, 0.32mm² (22AWG), ø0.64mm (0.025in.) LVR055: Tin-plated copper, 0.52mm² (20AWG), ø0.81mm (0.032in.) LVRL: Tin-plated copper, 0.52mm² (20AWG), ø0.81mm (0.032in.)
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3
Solder heat withstand	per IEC-STD 68-2-20, Test Tb, Method1a, condition b, can withstand 10 seconds at 260°C ±5°C

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

LVR Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	70°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±5%
Thermal Shock	85°C, -40°C (10 times)	±5%
Solvent resistance	MIL-STD-202, Method 215F	No change

BBRF Physical Characteristics

Lead material	Tin-plated copper
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3
Solder heat withstand	per IEC-STD 68-2-20, Test Tb, Method 1a, condition b, can withstand 10 seconds at 260°C ±5°C
Insulting material	Cured, flame-retardant epoxy polymer; meets UL 94V-0

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

BBRF Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	70°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±5%
Thermal Shock	85°C, -40°C (10 times)	±5%
Solvent resistance	MIL-STD-202, Method 215F	No change

RXEF Physical Characteristics

Lead material	RXEF005: Tin-plated nickel-copper ally, 0.128mm² (26AWG), ø0.40mm (0.016in.) RXEF010: Tin-plated nickel-copper ally, 0.205mm² (24AWG), ø0.51mm (0.020in.) RXEF017 to 040: Tin-plated copper-clad steel, 0.205mm² (24AWG), ø0.51mm (0.020in.) RXEF050 to 090: Tin-plated copper, 0.205mm² (24AWG), ø0.51mm (0.020in.) RXEF110 to 375: Tin-plated copper, 0.52mm² (20AWG), ø0.81mm (0.032in.)
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3 RXEF005, RXEF010 meet ANSI/J-STD-002 Category 1
Solder heat withstand	RXEF017- RXEF025: per IEC-STD 68-2-20, Test Tb, Method 1a, condition a; can withstand 5 seconds at 260°C ±5°C All other sizes: per IEC-STD 68-2-20, Test Tb, Method 1a, condition b; can withstand 5 seconds at 260°C ±5°C
Insulting material	Cured, flame-retardant epoxy polymer; meets UL 94V-0

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

RXEF Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	-40°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±10%
Thermal Shock	85°C, -40°C (10 times)	±10%
Solvent resistance	MIL-STD-202, Method 215F	No change

Table R5 - Physical Characteristics and Environmental Specifications for Radial-leaded Devices ... Cont'd

RTEF Physical Characteristics

Lead material	Tin-plated copper-clad steel, 0.205mm² (24AWG), ø0.40mm (0.016in.)
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3
Solder heat withstand	per IEC-STD 68-2-20, Test Tb, Method 1a, condition b; can withstand 10 seconds at 260°C ±5°C
Insulting material	Cured, flame-retardant epoxy polymer; meets UL 94V-0

RTEF Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	70°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±5%
Thermal Shock	85°C, -40°C (10 times)	±5%
Solvent resistance	MIL-STD-202, Method 215F	No change

RUEF Physical Characteristics

Lead material	RUEF090 to RUEF250: Tin-plated copper-clad steel, 0.205mm² (24AWG)
	RUEF300 to RUEF900: Tin-plated copper, 0.52mm² (20AWG), ø0.81mm (0.032in.)
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3
Solder heat withstand	per IEC-STD 68-2-20, Test Tb, Method1a, condition b, can withstand 10 seconds at 260°C ±5°C
Insulting material	Cured, flame-retardant epoxy polymer; meets UL 94V-0

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

RUEF Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	70°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±5%
Thermal Shock	85°C, -40°C (10times)	±5%
Solvent resistance	MIL-STD-202, Method 215F	No change

RUSBF Physical Characteristics

Lead material	RUSBF075: Tin-plated nickel-copper alloy, 0.205mm² (24AWG), ø0.51mm/0.020in.
	RUSBF090 to RUSBF250: Tin-plated copper clad-steel, 0.205mm² (24AWG), ø0.51mm/0.020in.
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3 except*RUSBF075 meet ANSI/J-STD-002 Category 1
Solder heat withstand	RUSBF120: per IEC-STD 68-2-20, Test Tb, Method 1a, condition a; can withstand 5 seconds at 260°C ±5°C
	All others: per IEC-STD 68-2-20, Test Tb, Method 1a, condition b; can withstand 10 seconds at 260°C ±5°C
Insulting material	Cured, flame-retardant epoxy polymer; meets UL 94V-0

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

RUSBF Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	70°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±5%
Thermal Shock	85°C, -40°C (10 times)	±5%
Solvent resistance	MIL-STD-202, Method 215F	No change

RGEF Physical Characteristics

Lead material	RGEF300 to RGEF1100: Tin-plated copper, 0.52mm² (20AWG), ø0.81mm/0.032in.
	RGEF1200 to RGEF1400: Tin-plated copper, 0.82mm² (18AWG), ø1.0mm/0.04in.
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3
Solder heat withstand	RGEF300K and RGEF400: per IEC 68-2-20, Test Tb, Method 1a, condition a; can withstand 5 seconds at 260°C ±5°C
	RGEF500 to RGEF1400: per IEC 68-2-20, Test Tb, Method 1a, condition b; can withstand 10 seconds at 260°C ±5°C
Insulting material	Cured, flame-retardant epoxy polymer; meets UL 94V-0

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

Table R5 - Physical Characteristics and Environmental Specifications for Radial-leaded Devices ... Cont'd

RGEF Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	-40°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±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 RHEF400: Tin-plated copper clad steel, 0.205mm² (24AWG), ø0.51mm/0.020in. RHEF450 to RHEF1000: Tin-plated copper, 0.52mm² (20AWG), ø0.81mm/0.032in. RHEF1300 to RHEF1500: Tin-plated copper, 0.82mm² (18AWG), ø1.0mm/0.04in.
Soldering characteristics	Solderability pre ANSI/J-STD-002 Category 3
Solder heat withstand	per IEC 68-2-20, Test Tb, Method 1a, condition b; can withstand 10 seconds at 260°C ±5°C
Insulting material	Cured, flame-retardant epoxy polymer; meets UL 94V-0

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

RHEF Environmental Specifications

Test	Conditions	Resistance Change
Passive aging	70°C, 1000 hours	±5%
	85°C, 1000 hours	±5%
Humidity aging	85°C, 85%RH, 1000 hours	±5%
Thermal Shock	125°C, -40°C (10 times)	±5%
Solvent resistance	MIL-STD-202, Method 215F	No change

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

Notes: Storage conditions: 40°Cmax., 70% RH max.; devices should remain in original sealed bags prior to use. Devices may not meet specificed values if these storage covditions are exceeded.
For the TR devices series, see the telecommunications and Networking section.

Agency Recognitions for Radial-leaded Devices

UL	File # E74889
CSA	File # CA78165C
TÜV	Certificate number available on request (per IEC 60730-1).

Table R6 - Packaging and Marking Information for Radial-leaded Devices

Part Number	Bag Quantity	Tape & Reel Quantity	Ammo Pack Quantity	Standard Pack Quantity	Part Marking	Agency Recognition
LVR 240V$_{AC}$						
LVR005K	500	—	—	10,000	L005	UL,CSA, TÜV
LVR005K-2	—	500	—	10,000	L005	UL,CSA, TÜV
LVR005S	500	—	—	10,000	L005	UL,CSA, TÜV
LVR005S-2	—	500	—	10,000	L005	UL,CSA, TÜV
LVR008K	500	—	—	10,000	L008	UL,CSA, TÜV
LVR008K-2	—	500	—	10,000	L008	UL,CSA, TÜV
LVR008S	500	—	—	10,000	L008	UL,CSA, TÜV
LVR008S-2	—	500	—	10,000	L008	UL,CSA, TÜV
LVR012K	500	—	—	10,000	L012	UL,CSA, TÜV
LVR012K-2	—	500	—	10,000	L012	UL,CSA, TÜV
LVR012S	500	—	—	10,000	L012	UL,CSA, TÜV
LVR012S-2	—	500	—	10,000	L012	UL,CSA, TÜV
LVR016K	500	—	—	10,000	L016	UL,CSA, TÜV
LVR016K-2	—	500	—	10,000	L016	UL,CSA, TÜV
LVR016S	500	—	—	10,000	L016	UL,CSA, TÜV
LVR016S-2	—	500	—	10,000	L016	UL,CSA, TÜV
LVR025K	500	—	—	10,000	L025	UL,CSA, TÜV
LVR025K-2	—	500	—	10,000	L025	UL,CSA, TÜV
LVR025S	500	—	—	10,000	L025	UL,CSA, TÜV
LVR025S-2	—	500	—	10,000	L025	UL,CSA, TÜV

RoHS compliant, ELV compliant

Table R6 - Packaging and Marking Information for Radial-leaded Devices ... Cont'd

	Part Number	Bag Quantity	Tape & Reel Quantity	Ammo Pack Quantity	Standard Pack Quantity	Part Marking	Agency Recognition
	LVR 240V$_{AC}$						
	LVR033S	500	—	—	10,000	L033	UL,CSA, TÜV
	LVR033S-2	—	500	—	10,000	L033	UL,CSA, TÜV
	LVR033K	500	—	—	10,000	L033	UL,CSA, TÜV
	LVR033K-2	—	500	—	10,000	L033	UL,CSA, TÜV
	LVR040S	500	—	—	10,000	L040	UL,CSA, TÜV
	LVR040S-2	—	500	—	10,000	L040	UL,CSA, TÜV
	LVR040K	500	—	—	10,000	L040	UL,CSA, TÜV
	LVR040K-2	—	500	—	10,000	L040	UL,CSA, TÜV
	LVR055K	500	—	—	10,000	L055	UL,CSA, TÜV
	LVR055S	500	—	—	10,000	L055	UL,CSA, TÜV
New	LVRL075S	500	—	—	10,000	L075	UL,CSA, TÜV
New	LVRL100S	500	—	—	10,000	L100	UL,CSA, TÜV
New	LVRL125S	500	—	—	10,000	L125	UL,CSA
New	LVRL135S	500	—	—	10,000	L135	UL,CSA, TÜV
New	LVRL200S	250	—	—	5,000	L200	UL,CSA, TÜV
	BBRF 99V$_{AC}$						
	BBRF550	500	—	—	10,000	B550	UL, CSA
	BBRF550-2	—	1,500	—	7,500	B550	UL, CSA
	BBRF750	500	—	—	10,000	B750	UL, CSA
	BBRF750-2	—	1,500	—	7,500	B750	UL, CSA
	RXEF 60V						
	RXEF005	500	—	—	10,000	—	UL, CSA, TÜV
	RXEF010	500	—	—	10,000	X010	UL, CSA, TÜV
	RXEF010-2	—	3,000	—	15,000	X010	UL, CSA, TÜV
	RXEF010-AP	—	—	2,000	10,000	X010	UL, CSA, TÜV
	RXEF017	500	—	—	10,000	X017	UL, CSA, TÜV
	RXEF017-2	—	2,500	—	12,500	X017	UL, CSA, TÜV
	RXEF017-AP	—	—	2,000	10,000	X017	UL, CSA, TÜV
	RXEF 72V						
	RXEF020	500	—	—	10,000	X020	UL, CSA, TÜV
	RXEF020-2	—	3,000	—	15,000	X020	UL, CSA, TÜV
	RXEF020-AP	—	—	2,000	10,000	X020	UL, CSA, TÜV
	RXEF025	500	—	—	10,000	X025	UL, CSA, TÜV
	RXEF025-2	—	3,000	—	15,000	X025	UL, CSA, TÜV
	RXEF025-AP	—	—	2,000	10,000	X025	UL, CSA, TÜV
	RXEF030	500	—	—	10,000	X030	UL, CSA, TÜV
	RXEF030-2	—	3,000	—	15,000	X030	UL, CSA, TÜV
	RXEF030-AP	—	—	2,000	10,000	X030	UL, CSA, TÜV
	RXEF040	500	—	—	10,000	X040	UL, CSA, TÜV
	RXEF040-2	—	3,000	—	15,000	X040	UL, CSA, TÜV
	RXEF040-AP	—	—	2,000	10,000	X040	UL, CSA, TÜV
	RXEF050	500	—	—	10,000	X050	UL, CSA, TÜV
	RXEF050-2	—	3,000	—	15,000	X050	UL, CSA, TÜV
	RXEF050-AP	—	—	2,000	10,000	X050	UL, CSA, TÜV
	RXEF065	500	—	—	10,000	X065	UL, CSA, TÜV
	RXEF065-2	—	3,000	—	15,000	X065	UL, CSA, TÜV
	RXEF065-AP	—	—	2,000	10,000	X065	UL, CSA, TÜV
	RXEF075	500	—	—	10,000	X075	UL, CSA, TÜV
	RXEF075-2	—	3,000	—	15,000	X075	UL, CSA, TÜV

RoHS compliant, ELV compliant

Table R6 - Packaging and Marking Information for Radial-leaded Devices ... Cont'd

Part Number	Bag Quantity	Tape & Reel Quantity	Ammo Pack Quantity	Standard Pack Quantity	Part Marking	Agency Recognition
RXEF 72V						
RXEF075-AP	—	—	2,000	10,000	X075	UL, CSA, TÜV
RXEF090	500	—	—	10,000	X090	UL, CSA, TÜV
RXEF090-2	—	3,000	—	15,000	X090	UL, CSA, TÜV
RXEF090-AP	—	—	2,000	10,000	X090	UL, CSA, TÜV
RXEF110	500	—	—	10,000	X110	UL, CSA, TÜV
RXEF110-2	—	1,500	—	7,500	X110	UL, CSA, TÜV
RXEF110-AP	—	—	1,000	5,000	X110	UL, CSA, TÜV
RXEF135	500	—	—	10,000	X135	UL, CSA, TÜV
RXEF135-2	—	1,500	—	7,500	X135	UL, CSA, TÜV
RXEF135-AP	—	—	1,000	5,000	X135	UL, CSA, TÜV
RXEF160	500	—	—	10,000	X160	UL, CSA, TÜV
RXEF160-2	—	1,500	—	7,500	X160	UL, CSA, TÜV
RXEF160-AP	—	—	1,000	5,000	X160	UL, CSA, TÜV
RXEF185	500	—	—	10,000	X185	UL, CSA, TÜV
RXEF185-2	—	1,500	—	7,500	X185	UL, CSA, TÜV
RXEF185-AP	—	—	1,000	5,000	X185	UL, CSA, TÜV
RXEF250	250	—	—	5,000	X250	UL, CSA, TÜV
RXEF250-2	—	1,000	—	5,000	X250	UL, CSA, TÜV
RXEF250-AP	—	—	1,000	5,000	X250	UL, CSA, TÜV
RXEF300	250	—	—	5,000	X300	UL, CSA, TÜV
RXEF300-2	—	1,000	—	5,000	X300	UL, CSA, TÜV
RXEF300-AP	—	—	1,000	5,000	X300	UL, CSA, TÜV
RXEF375	250	—	—	5,000	X375	UL, CSA, TÜV
RTEF 33V						
RTEF120	500	—	—	10,000	T120	UL, CSA, TÜV
RTEF120-2	—	3,000	—	15,000	T120	UL, CSA, TÜV
RTEF120-AP	—	—	2,000	10,000	T120	UL, CSA, TÜV
RTEF135	500	—	—	10,000	T135	UL, CSA, TÜV
RTEF135-2	—	3,000	—	15,000	T135	UL, CSA, TÜV
RTEF135-AP	—	—	2,000	10,000	T135	UL, CSA, TÜV
RTEF190	500	—	—	10,000	T190	UL, CSA, TÜV
RTEF190-2	—	3,000	—	15,000	T190	UL, CSA, TÜV
RTEF190-AP	—	—	2,000	10,000	T190	UL, CSA, TÜV
RUEF 30V						
RUEF090	500	—	—	10,000	U090	UL, CSA, TÜV, CQC
RUEF090-2	—	3,000	—	15,000	U090	UL, CSA, TÜV, CQC
RUEF090-AP	—	—	2,000	10,000	U090	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

RoHS compliant, ELV compliant

Table R6 - Packaging and Marking Information for Radial-leaded Devices ... Cont'd

Part Number	Bag Quantity	Tape & Reel Quantity	Ammo Pack Quantity	Standard Pack Quantity	Part Marking	Agency Recognition
RUEF 30V						
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-AP	—	—	1,000	5,000	U600	UL, CSA, TÜV, CQC
RUEF700	250	—	—	5,000	U700	UL, CSA, TÜV, CQC
RUEF800	250	—	—	5,000	U800	UL, CSA, TÜV, CQC
RUEF900	250	—	—	5,000	U900	UL, CSA, TÜV, CQC
RHEF 30V - High Temperature						
RHEF050	500	—	—	10,000	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	H1.0	UL, CSA, TÜV
RHEF100-2	—	3,000	—	15,000	H1.0	UL, CSA, TÜV
RUSBF 16V						
RUSBF090	500	—	—	10,000	R090	UL, CSA, TÜV
RUSBF090-2	—	3,000	—	15,000	R090	UL, CSA, TÜV
RUSBF090-AP	—	—	2,000	10,000	R090	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
RUSBF155	500	—	—	10,000	R155	UL, CSA, TÜV
RUSBF160	500	—	—	10,000	R160	UL, CSA, TÜV
RUSBF160-2	—	3,000	—	15,000	R160	UL, CSA, TÜV
RUSBF160-AP	—	—	2,000	10,000	R160	UL, CSA, TÜV
RUSBF185	500	—	—	10,000	R185	UL, CSA, TÜV
RUSBF185-2	—	3,000	—	15,000	R185	UL, CSA, TÜV
RUSBF185-AP	—	—	2,000	10,000	R185	UL, CSA, TÜV
RUSBF250	500	—	—	10,000	R250	UL, CSA, TÜV
RUSBF250-2	—	3,000	—	15,000	R250	UL, CSA, TÜV
RUSBF250-AP	—	—	2,000	10,000	R250	UL, CSA, TÜV
RGEF 16V						
RGEF250	500	—	—	10,000	G250	UL, CSA, TÜV
RGEF300	500	—	—	10,000	G300	UL, CSA, TÜV
RGEF300-2	—	2,500	—	12,500	G300	UL, CSA, TÜV
RGEF300-AP	—	—	2,000	10,000	G300	UL, CSA, TÜV
RGEF400	500	—	—	10,000	G400	UL, CSA, TÜV
RGEF400-2	—	2,500	—	12,500	G400	UL, CSA, TÜV
RGEF400-AP	—	—	2,000	10,000	G400	UL, CSA, TÜV
RGEF500	500	—	—	10,000	G500	UL, CSA, TÜV
RGEF500-2	—	2,000	—	10,000	G500	UL, CSA, TÜV
RGEF500-AP	—	—	2,000	10,000	G500	UL, CSA, TÜV
RGEF600	500	—	—	10,000	G600	UL, CSA, TÜV
RGEF600-2	—	2,000	—	10,000	G600	UL, CSA, TÜV
RGEF600-AP	—	—	2,000	10,000	G600	UL, CSA, TÜV
RGEF700	500	—	—	10,000	G700	UL, CSA, TÜV
RGEF700-2	—	1,500	—	7,500	G700	UL, CSA, TÜV
RGEF700-AP	—	—	1,500	7,500	G700	UL, CSA, TÜV
RGEF800	500	—	—	10,000	G800	UL, CSA, TÜV
RGEF800-2	—	1,000	—	5,000	G800	UL, CSA, TÜV
RGEF800-AP	—	—	1,000	5,000	G800	UL, CSA, TÜV
RGEF900	500	—	—	10,000	G900	UL, CSA, TÜV
RGEF900-2	—	1,000	—	5,000	G900	UL, CSA, TÜV
RGEF900-AP	—	—	1,000	5,000	G900	UL, CSA, TÜV

RoHS compliant, ELV compliant

Table R6 - Packaging and Marking Information for Radial-leaded Devices ... Cont'd

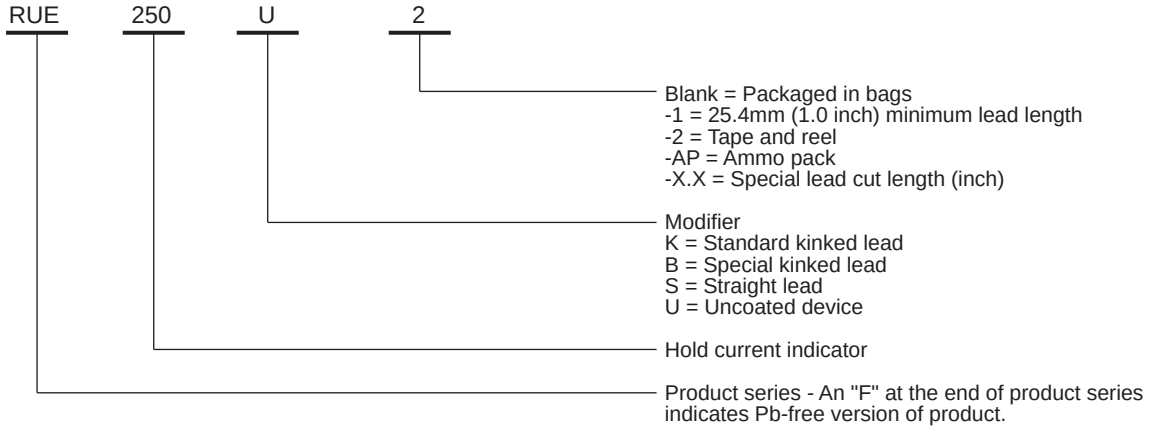
	Part Number	Bag Quantity	Tape & Reel Quantity	Ammo Pack Quantity	Standard Pack Quantity	Part Marking	Agency Recognition
	RGEF 16V						
	RGEF1000	250	—	—	5,000	G1000	UL, CSA, TÜV
	RGEF1000-2	—	1,000	—	5,000	G1000	UL, CSA, TÜV
	RGEF1000-AP	—	—	1,000	5,000	G1000	UL, CSA, TÜV
	RGEF1100	250	—	—	5,000	G1100	UL, CSA, TÜV
	RGEF1100-2	—	1,000	—	5,000	G1100	UL, CSA, TÜV
	RGEF1100-AP	—	—	1,000	5,000	G1100	UL, CSA, TÜV
	RGEF1200	250	—	—	5,000	G1200	UL, CSA, TÜV
	RGEF1200-2	—	1,000	—	5,000	G1200	UL, CSA, TÜV
	RGEF1200-AP	—	—	1,000	5,000	G1200	UL, CSA, TÜV
	RGEF1400	250	—	—	5,000	G1400	UL, CSA, TÜV
	RGEF1400-2	—	1,000	—	5,000	G1400	UL, CSA, TÜV
	RGEF1400-AP	—	—	1,000	5,000	G1400	UL, CSA, TÜV
	RHEF 16V - High Temperature						
	RHEF200	500	—	—	10,000	H2.5	UL, CSA, TÜV
	RHEF200-2	—	2,500	—	12,500	H2.5	UL, CSA, TÜV
New	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	H4.5	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
New	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	—	1,500	—	7,500	H6	UL, CSA, TÜV
	RHEF600-AP	—	—	1,500	7,500	H6	UL, CSA, TÜV
	RHEF650	500	—	—	10,000	H6.5	UL, CSA, TÜV
New	RHEF700	500	—	—	10,000	H7	UL, CSA, TÜV
	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
New	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
New	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
	RHEF 16V						
	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
New	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

RoHS compliant, ELV compliant

Table R6 - Packaging and Marking Information for Radial-leaded Devices ... Cont'd

Part Number	Bag Quantity	Tape & Reel Quantity	Ammo Pack Quantity	Standard Pack Quantity	Part Marking	Agency Recognition
RHEF 16V						
RHEF1500-AP	—	—	1,000	5,000	H15	UL, CSA, TÜV
RUSBF 6V						
RUSBF075	500	—	—	10,000	R075	UL, CSA, TÜV
RUSBF075-2	—	3,000	—	15,000	R075	UL, CSA, TÜV
RUSBF075-AP	—	—	2,500	12,500	R075	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

Part Numbering System for Radial-leaded Devices



WARNING:

- Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- The devices are intended for protection against occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- Operation in circuit with a large inductance can generate a circuit voltage ($L\ {}^{di}/_{dt}$) above the rated voltage of the PolySwitch resettable device.