Resettable fuses

Order code	Manufacturer code	Description
26-1530	RGE300	3.0A RGE300 POLYSWITCH FUSE (RC)
26-1532	RGE400	4.0A RGE400 POLYSWITCH FUSE (RC)
26-1534	RGE500	5.0A RGE500 POLYSWITCH FUSE (RC)
26-1536	RGE600	6.0A RGE600 POLYSWITCH FUSE RC
26-1538	RGE700	7.0A RGE700 POLYSWITCH FUSE (RC)
26-1540	RGE900	9.0A RGE900 POLYSWITCH FUSE (RC)
26-1542	RGE1100	11.0A RGE1100 POLYSWITCH FUSE RC
26-1544	RGE1200	12.0A RGE1200 POLYSWITCH FUSE (RC)
26-1546	RGE1400	14.0A RGE1400 POLYSWITCH FUSE RC

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Low Voltage Polyswitch Resettable Fuses

Raychem – RGE Radial Leaded Series

Product Data

Electrical Characteristics (25ºC)

Raychem Ref No.	I_H (A)	I_T (A)	Max. time to trip (s) at 5xI_H	Pd (W)	Initial Resistance R min. (Ω)	Post-trip Resistance R1 max. (Ω)
RGE300	3.0	5.1	2.0	2.3	0.034	0.105
RGE400	4.0	6.8	3.5	2.4	0.020	0.063
RGE500	5.0	8.5	3.6	2.6	0.014	0.044
RGE600	6.0	10.2	5.8	2.8	0.009	0.030
RGE700	7.0	11.9	8.0	3.0	0.006	0.021
RGE900	9.0	15.3	12.0	3.3	0.004	0.015
RGE1100	11.0	18.7	13.5*	3.7	0.003	0.010
RGE1200	12.0	20.4	16.0	4.2	0.002	0.009
RGE1400	14.0	23.8	20.0	4.6	0.002	0.008

I_H = Hold current – maximum current at which the device will not trip at 25ºC
I_T = Trip current – minimum current at which the device will always trip at 25ºC
Pd = Typical power dissipation – typical amount of power dissipated by the device when in tripped state in 25ºC still air
R min. = Minimum device resistance at 25ºC prior to tripping
R max. = Maximum device resistance at 25ºC prior to tripping
R1 max. = Maximum device resistance at 25ºC measured 1 hour post trip
*Device tested at 60A

Physical Characteristics	
Lead Material	RGE300 – RGE1100: Tin lead-plated copper, 20 AWG, ∅ 0.81 mm RGE1200 – RGE1400: Tin lead-plated copper, 18 AWG, ∅ 1.0 mm
Soldering Characteristics	Solderability per ANSI/J-STD-002 Solder heat withstand per IEC 68-2-20: RGE300, Test Tb; should be soldered to the printed circuit in less than 4 seconds at maximum temperature of 260ºC ± 5º RGE500 – RGE1400, Test Tb; can withstand 10 seconds at 260ºC ±5º
Insulating Material	Cured, flame-retardant epoxy polymer; meets UL 94V-0 requirements
	Note: Devices are not designed to be placed through a reflow process

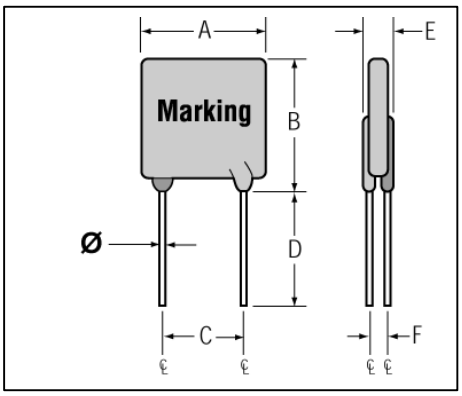
Approvals: CSA File No. CA 78165C
T†V Certificate No. R9677540
UL File No. E74889

Enviromental Specifications			
Test	**Test method**	**Conditions**	**Resistance change**
Passive aging	Raychem PS300	-40ºC, 1000 hours 85ºC, 1000 hours	±5% ±5%
Humidity aging	Raychem PS300	85ºC, 85% R.H., 1000 hours	±5%
Thermal shock	Raychem PS300	85ºC, -40ºC (10 times)	±5%
Solvent resistance	Raychem PS300, Method 215	MIL-STD-202, Method 215F	No change

I_{HOLD} vs. Temperature										
Raychem Ref No.	Maximum Ambient Operating Temperatures (ºC)									
	-40º	-20º	0º	20º	25º	40º	50º	60º	70º	85º
RGE300	4.4	4.0	3.6	3.1	3.0	2.6	2.4	2.1	1.9	1.4
RGE400	5.9	5.3	4.8	4.1	4.0	3.5	3.2	2.8	2.5	1.9
RGE500	7.3	6.6	6.0	5.2	5.0	4.4	4.0	3.6	3.1	2.4
RGE600	8.8	8.0	7.2	6.2	6.0	5.2	4.8	4.2	3.8	2.8
RGE700	10.3	9.3	8.4	7.3	7.0	6.2	5.6	5.0	4.4	3.3
RGE900	13.2	11.9	10.7	9.4	9.0	7.9	7.2	6.4	5.6	4.2
RGE1100	16.1	14.6	13.1	11.5	11.0	9.7	8.8	7.8	6.9	5.2
RGE1200	17.6	16.0	14.4	12.4	12.0	10.4	9.6	8.4	7.6	5.6
RGE1400	20.5	18.7	16.8	14.5	14.0	12.1	11.2	9.8	8.9	6.5

Maximum Device Voltage and Currents		
Raychem Ref No.	V max. (volts)	I max. (amps)
RGE300	16	100
RGE400	16	100
RGE500	16	100
RGE600	16	100
RGE700	16	100
RGE900	16	100
RGE1100	16	100
RGE1200	16	100
RGE1400	16	100

Product Dimensions (mm)							
Raychem Ref No.	A max.	B max.	C typ.	D min.	E max.	F typ.	∅ typ.
RGE300	7.1	11.0	5.1	7.6	3.0	1.2	0.81
RGE400	8.9	12.8	5.1	7.6	3.0	1.2	0.81
RGE500	10.4	14.3	5.1	7.6	3.0	1.2	0.81
RGE600	10.7	17.1	5.1	7.6	3.0	1.2	0.81
RGE700	11.2	19.7	5.1	7.6	3.0	1.2	0.81
RGE900	14.0	21.7	5.1	7.6	3.0	1.2	0.81
RGE1100	17.5	26.0	5.1	7.6	3.0	1.2	0.81
RGE1200	17.5	28.0	10.2	7.6	3.6	1.4	1.0
RGE1400	27.9	27.9	10.2	7.6	3.4	1.4	1.0



Component Layout Dimensions (mm)		
Raychem Ref No.	A nom.	B max.
RGE300	5.1	1.2
RGE400	5.1	1.4
RGE500	5.1	1.6
RGE600	5.1	1.6
RGE700	5.1	1.7
RGE900	5.1	2.0
RGE1100	5.1	2.4
RGE1200	10.2	1.5
RGE1400	10.2	1.9