

Performance Specification

Model	V _{max} (Vdc)	I _{max} (A)	I _{hold} (A)	I _{trip} (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (Sec)	R _{imin} (Ω)	R _{imax} (Ω)	R _{1ma} x (Ω)
30R040	30	40	0.40	0.80	0.45	8.00	0.3	0.400	0.700	1.000
30R050	30	40	0.50	1.00	0.46	8.00	0.3	0.290	0.510	0.800
30R065	30	40	0.65	1.30	0.47	8.00	0.4	0.150	0.300	0.450
30R075	30	40	0.75	1.50	0.48	8.0	0.4	0.140	0.200	0.300
30R090	30	40	0.90	1.80	0.6	4.50	5.9	0.070	0.120	0.200
30R110	30	40	1.10	2.20	0.7	5.50	6.6	0.050	0.100	0.150
30R135	30	40	1.35	2.70	0.8	6.75	7.3	0.040	0.080	0.120
30R160	30	40	1.60	3.20	0.9	8.00	8.0	0.030	0.070	0.100
30R185	30	40	1.85	3.70	1.0	9.25	8.7	0.030	0.060	0.080
30R250	30	40	2.50	5.00	1.2	12.5	10.3	0.020	0.040	0.070
30R300	30	40	3.00	6.00	2.0	15.0	10.8	0.020	0.050	0.070
30R400	30	40	4.00	8.00	2.5	20.0	12.7	0.010	0.030	0.070
30R500	30	40	5.00	10.00	3.0	25.0	14.5	0.010	0.030	0.070
30R600	30	40	6.00	12.00	3.5	30.0	16.0	0.005	0.020	0.030
30R700	30	40	7.00	14.00	3.8	35.0	17.5	0.005	0.020	0.030
30R800	30	40	8.00	16.00	4.0	40.0	18.8	0.005	0.020	0.030
30R900	30	40	9.00	18.00	4.2	40.0	20.0	0.005	0.010	0.020
30R1000	30	40	10.00	20.00	4.2	50.0	22.00	0.0065	0.0085	0.015

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

I_{hold} = Hold Current. Maximum current device will not trip in 25°C still air.

I_{trip} = Trip Current. Minimum current at which the device will always trip in 25°C still air.

P_d = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

R_{i min/max} = Minimum/Maximum device resistance prior to tripping at 25°C.

R_{1max} = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

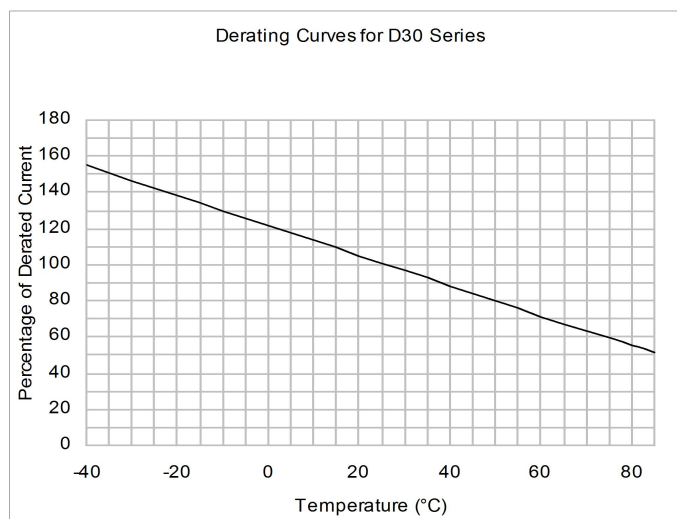
Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	±5% typical
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±33% typical
Resistance to solvent	MIL-STD-202,Method 215	No change
Vibration	MIL-STD-202,Method 201	No change
Ambient operating conditions : - 40 °C to +85 °C		
Maximum surface temperature of the device in the tripped state is 125 °C		

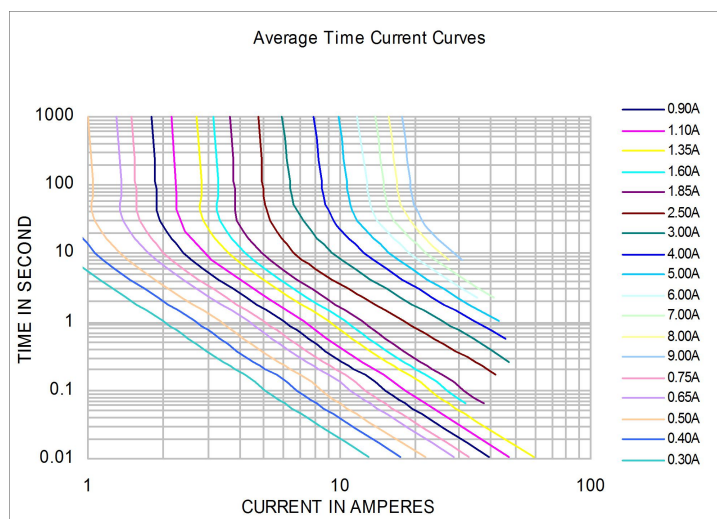
Agency Approval and Environmental Compliance

Agency	File Number	Regulation	Standard
UL	pending		2002/95/EC
TUV	pending		EN14582

Thermal Derating Curve



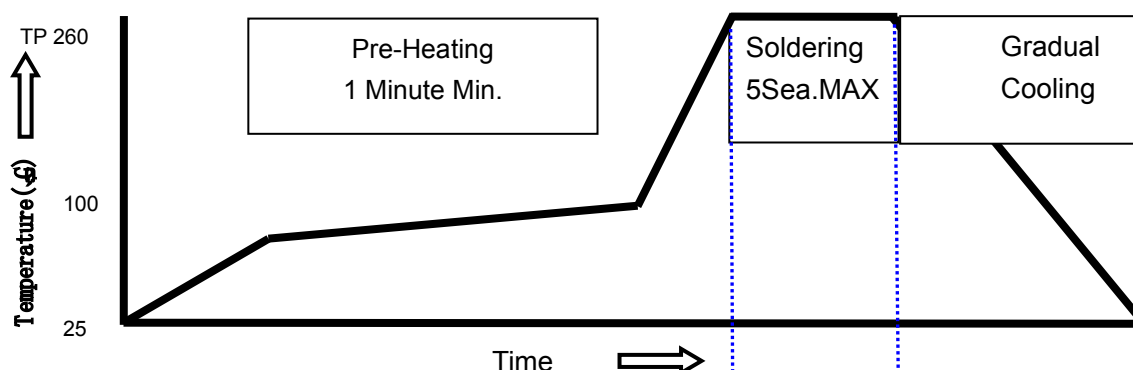
Average Time-Current Curve



Ihold Versus Temperature

Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
30R030	0.44	0.39	0.35	0.30	0.25	0.23	0.20	0.18	0.16
30R040	0.58	0.52	0.46	0.40	0.33	0.31	0.27	0.24	0.21
30R050	0.73	0.65	0.58	0.50	0.42	0.38	0.34	0.31	0.26
30R065	0.95	0.85	0.75	0.65	0.54	0.50	0.44	0.40	0.34
30R075	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00
30R090	1.31	1.17	1.04	0.90	0.75	0.69	0.61	0.55	0.47
30R110	1.60	1.43	1.27	1.10	0.91	0.85	0.75	0.67	0.57
30R135	1.96	1.76	1.55	1.35	1.12	1.04	0.92	0.82	0.70
30R160	2.32	2.08	1.84	1.60	1.33	1.23	1.09	0.98	0.83
30R185	2.68	2.41	2.13	1.85	1.54	1.42	1.26	1.13	0.96
30R250	3.63	3.25	2.88	2.50	2.08	1.93	1.70	1.53	1.30
30R300	4.35	3.90	3.45	3.00	2.49	2.31	2.04	1.83	1.56
30R400	5.80	5.20	4.60	4.00	3.32	3.08	2.72	2.44	2.08
30R500	7.25	6.50	5.75	5.00	4.15	3.85	3.40	3.05	2.60
30R600	8.70	7.80	6.90	6.00	4.98	4.62	4.08	3.66	3.12
30R700	10.15	9.10	8.05	7.00	5.81	5.39	4.76	4.27	3.64
30R800	11.60	10.40	9.20	8.00	6.64	6.16	5.44	4.88	4.16
30R900	13.05	11.70	10.35	9.00	7.47	6.93	6.12	5.49	4.68

Soldering Parameters

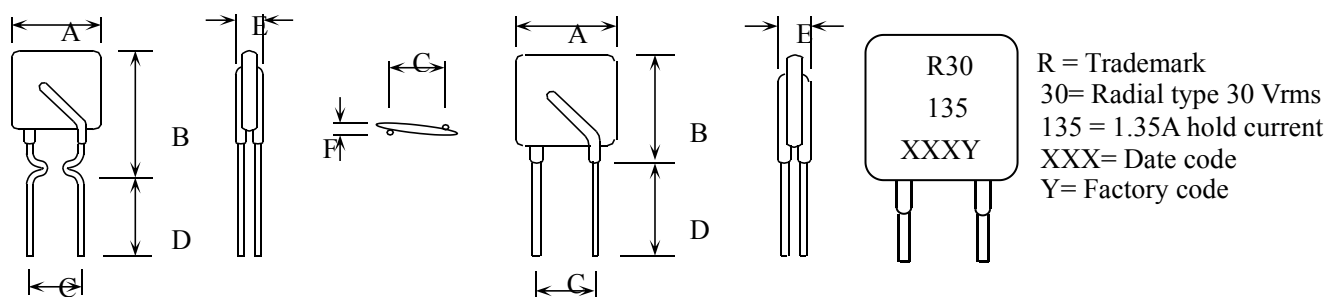


WAVE SOLDERING INFORMATION

Pre-Heating Zone	Max. ramping rate should not exceed 4°C/Sec.
Soldering Zone	Max. solder temperature should not exceed 260°C
Cooling Zone	Cooling by natural convection in air.

© Specifications are subject to change without notice.

Physical Dimensions(mm.)



Model	A	B	C	D	E	Lead
	Max.	Max.	Typ.	Min.	Max.	Style
30R040	7.9	13.7	5.1	7.6	3.1	Straight
30R050	7.9	13.7	5.1	7.6	3.0	Straight
30R065	7.4	12.2	5.1	7.6	3.0	Straight
30R075	7.4	12.2	5.1	7.6	3.0	Straight
30R090	7.4	12.2	5.1	7.6	3.0	Straight
30R110	7.4	14.2	5.1	7.6	3.0	Kink
30R135	8.9	13.5	5.1	7.6	3.0	Kink
30R160	8.9	15.2	5.1	7.6	3.0	Kink
30R185	10.2	15.7	5.1	7.6	3.0	Kink
30R250	11.4	18.3	5.1	7.6	3.0	Kink
30R300	11.7	17.3	5.1	7.6	3.0	Kink
30R400	14.0	20.1	5.1	7.6	3.0	Straight
30R500	14.0	24.9	10.2	7.6	3.0	Straight
30R600	16.5	24.9	10.2	7.6	3.0	Straight
30R700	19.1	26.7	10.2	7.6	3.0	Straight
30R800	21.6	29.2	10.2	7.6	3.0	Straight
30R900	24.1	29.7	10.2	7.6	3.0	Straight
30R1000	24.1	29.7	10.2	7.6	3.0	Straight

PHYSICAL SPECIFICATIONS :

Materials : Leads 30R030 ~ 250: Tin-platedcopper-cladsteel,0.205mm2(24AWG),Φ0.51mm(0.020in).

30R300 ~ 900: Tin-plated copper, 0.52mm2 (20AWG), Φ0.81mm(0.032 in).

Lead Solderability : MIL-STD-202, Method 208E

Packaging Quantity

30	135	K or S	R or U	Model	Reel Q'ty	Bag Q'ty
Radial type	Hold	K= Kink leads		30R030 ~ 30R075	-	500
30 V	Current		R=Tape&reel	30R090 ~ 30R250	3000	500
	(A)	S=Straight	U= Bulk	30R300 ~ 30R400	1500	500
		leads	packaged	30R500 ~ 30R900	-	500

Tape & Reel packaging per EIA468-B standard.