

APPROVAL SHEET

MODEL NO.: _____

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP

DATE

MANUFACTURER:

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Submitted by:

Approved by:

Date:

Performance Specification

Model	I _{hold} (A)	I _{trip} (A)	V _{max} Interrupt (Vrms)	I _{max} (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (Sec)	R _{i min.} (Ω)	R _{i max.} (Ω)	R _{1 max} (Ω)
250R020	0.020	0.040	250	3.0	0.70	0.1	10	80	180	260
250R030	0.030	0.060	250	3.0	1.0	0.15	0.4	40.0	90.0	140
250R050	0.050	0.12	250	3.0	1.0	0.35	3.00	18.5	31.0	46.5
250R060	0.060	0.120	250	3.0	1.0	0.30	0.5	22.0	32.0	48.0
250R080	0.080	0.160	250	3.0	1.00	0.40	3.00	14.0	22.0	28.0
250R090	0.090	0.18	250	3.0	1.00	0.45	3.00	10.0	20.0	30.0
250R110	0.110	0.22	250	3.0	1.00	1.00	3.00	5.0	12.0	18.0
250R120	0.120	0.240	250	3.0	1.00	1.00	1.50	4.5	10.0	16.0
250R145	0.145	0.290	250	3.0	1.00	1.00	3.0	3.0	7.0	12.0
250R180	0.18	0.50	250	10.0	1.0	0.90	15.0	0.80	2.0	3.0
250R200	0.20	0.40	250	10.0	1.5	1.00	15.0	1.50	3.0	5.0
250R300	0.30	0.60	250	10.0	1.5	1.50	1.50	1.0	2.4	1.9
250R400	0.40	0.80	250	10.0	2.5	2.00	10.0	0.75	1.10	1.7
250R500	0.50	1.00	250	10.0	2.5	2.50	1.50	0.5	0.8	1.2
250R600	0.60	1.20	250	10.0	3.00	3.0	10.0	0.50	0.75	1.2
250R800	0.80	1.60	250	10.0	3.5	4.0	8.00	0.45	0.70	1.1
250R1000	1.00	2.00	250	10.0	4.0	5.0	10.0	0.28	0.45	0.7
250R1200	1.200	2.400	250	10.0	5.00	6.00	10.0	0.25	0.30	0.50

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.

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

Ri min/max = Minimum/Maximum device resistance prior to tripping at 25°C.



R1max = Maximum device resistance is measured one hour post reflow.

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

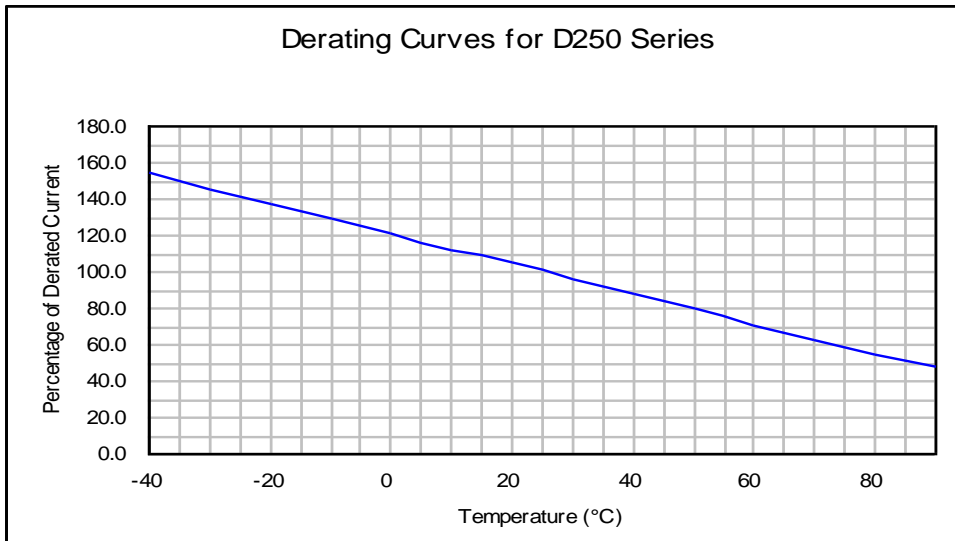
Environmental Specifications

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		

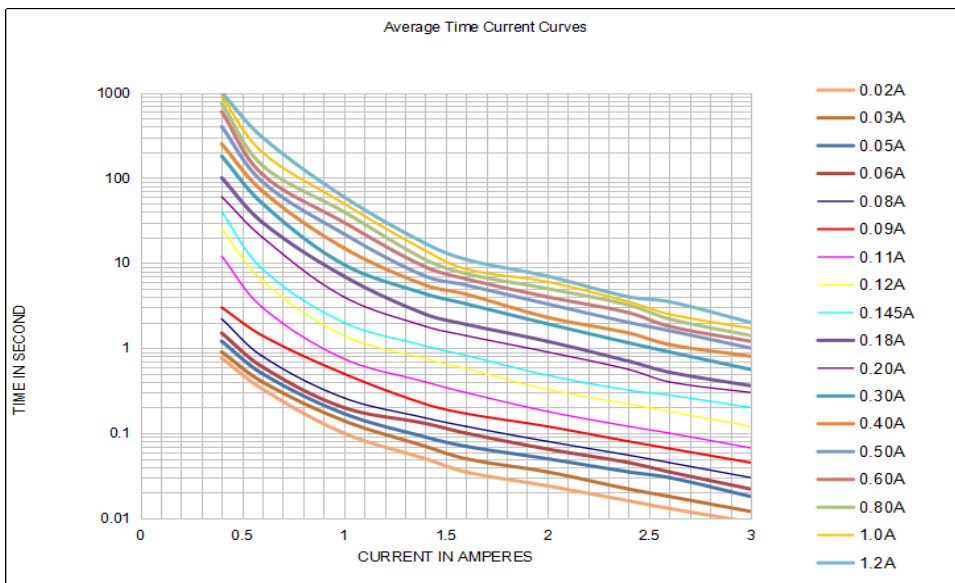
Agency Approval and Environmental Compliance

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

Thermal Derating Curve



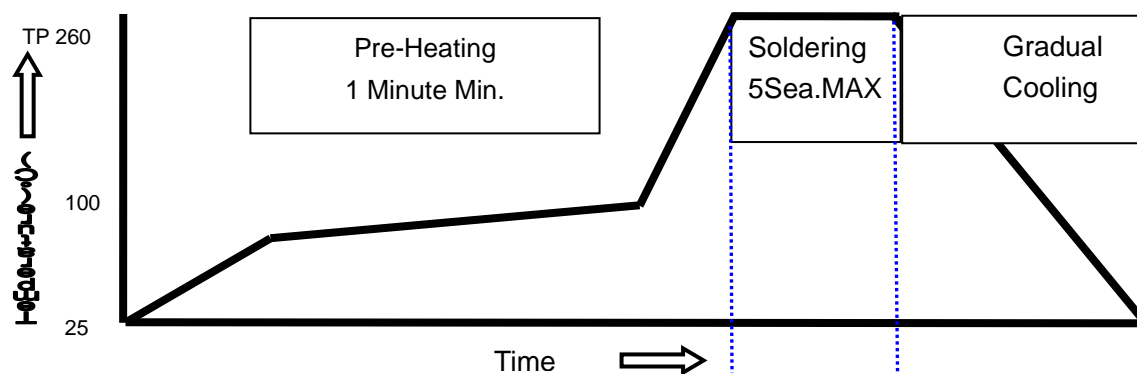
Average Time-Current Curve



Ihold Versus Temperature

型號	最高環境溫度和保持電流								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
250R020	0.030	0.027	0.024	0.020	0.017	0.015	0.013	0.011	0.008
250R030	0.047	0.04	0.036	0.030	0.024	0.022	0.019	0.016	0.012
250R050	0.079	0.069	0.060	0.050	0.041	0.036	0.032	0.027	0.020
250R060	0.101	0.089	0.077	0.060	0.052	0.047	0.041	0.035	0.026
250R080	0.124	0.110	0.095	0.080	0.066	0.059	0.051	0.044	0.033
250R090	0.140	0.124	0.107	0.090	0.074	0.066	0.057	0.050	0.037
250R110	0.171	0.151	0.131	0.110	0.091	0.081	0.071	0.061	0.046
250R120	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
250R145	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
250R180	0.279	0.247	0.213	0.180	0.147	0.131	0.115	0.099	0.074
250R200	0.295	0.267	0.24	0.20	0.175	0.160	0.141	0.1266	0.094
250R300	0.44	0.400	0.360	0.30	0.260	0.240	0.210	0.190	0.140
250R400	0.59	0.53	0.48	0.40	0.35	0.32	0.28	0.250	0.200
250R500	0.73	0.66	0.60	0.50	0.44	0.40	0.360	0.31	0.24
250R600	.0.87	0.80	0.71	0.60	0.52	0.47	0.42	0.37	0.28
250R800	1.17	0.108	0.97	0.80	0.700	0.64	0.560	0.52	0.37
250R1000	1.47	1.33	1.21	1.00	0.87	0.80	0.70	0.62	0.46
250R1200	1.76	1.60	1.45	1.20	1.05	0.95	0.85	0.76	0.56

Soldering Parameters

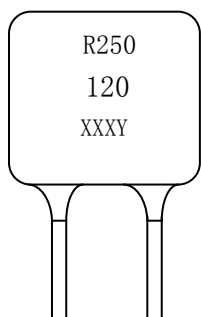
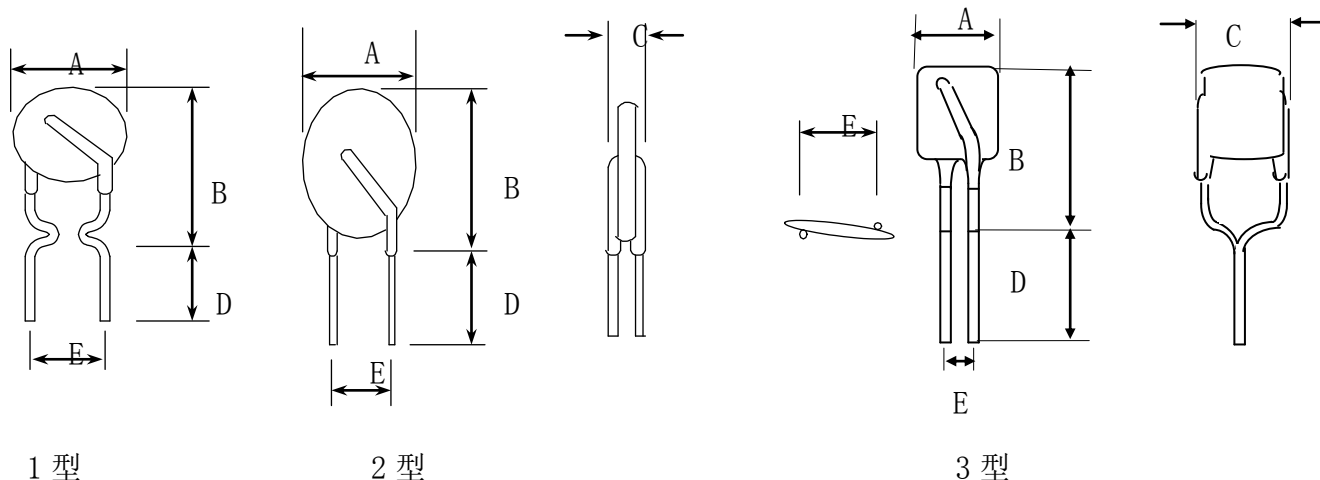


WAVE SOLDERING INFORMATIONS

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.

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Physical Dimensions(mm.)



R= Trademark
 250 = Radial type 250 V
 120 = 0.12A hold current
 XXX=日期
 Y=代碼

Model	A Max.	B Max.	C Max.	D Min.	E Typ.	Lead	
						Style	直径 (φ)
250R020	6.8	9.5	4.2	7.6	5.1	2	0.5
250R030	5.8	9.9	4.2	7.6	5.1	1	0.5
250R050	6.8	9.5	4.2	7.6	5.1	2	0.5
250R060	5.8	9.9	4.2	7.6	5.1	1	0.5
250R080	7.6	10.1	4.2	7.6	5.1	2	0.5
250R090	5.8	9.9	4.2	7.6	5.1	1	0.6
250R110	7.8	12.0	4.2	7.6	5.1	3	0.6
250R120	7.8	12.0	4.2	7.6	5.1	3	0.6
250R145	9.0	14.0	4.2	7.6	5.1	3	0.6
250R180	9.0	13.0	3.5	7.6	5.1	1	0.60
250R200	9.0	13.0	3.5	7.6	5.1	1	0.60
250R300	9.0	13.0	3.5	7.6	5.1	1	0.60
250R400	9.5	16.0	3.5	7.6	5.1	1	0.60
250R500	11.0	15.8	3.5	7.6	5.1	2	0.80
250R600	11.0	15.8	3.5	7.6	5.1	2	0.80
250R800	11.0	15.8	3.5	7.6	5.1	2	0.80
250R1000	14.0	19.1	3.5	7.6	5.1	2	0.80
250R1200	16.5	20.0	3.5	7.6	5.1	2	0.8

PHYSICAL SPECIFICATIONS :

Materials :

250R020-250R080: Tin-plated copper-clad steel, 22AWG, Φ 0.50mm(0.026 in).

250R090-250R400: Tin-plated copper-clad steel, 22AWG, Φ 0.60mm(0.026 in).

250R500-250R1200: Tin-plated copper-clad steel, 22AWG, Φ 0.80mm(0.026 in).

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

Packaging Quantity

250	1200	U	Model	Reel Q'ty	Bag Q'ty
Radial type	Hold	U= Bulk	250R030~250R1200	-	500
250V	Current(A)	packaged			

Tape & Reel packaging per EIA468-B standard.