

Performance Specification

Model	Vmax (V dc)	Imax (A)	I hold @25C (A)	I trip @25C (A)	Pd Typ. (W)	Max time to Trip		Resistance	
						Current (A)	Time (Sec)	R i min (Ohm)	R i max (Ohm)
2920Z030	60	100	0.30	0.60	1.5	1.5	3.0	0.600	4.800
2920Z050	60	100	0.50	1.00	1.5	2.5	4.0	0.180	1.400
2920Z075	33	100	0.75	1.50	1.5	8.0	0.3	0.100	1.000
2920Z110	33	100	1.10	2.20	1.5	8.0	0.5	0.065	0.410
2920Z125	33	100	1.25	2.50	1.5	8.0	2.0	0.050	0.250
2920Z150	33	100	1.50	3.00	1.5	8.0	2.0	0.035	0.230
2920Z0185	33	100	1.85	3.70	1.5	8.0	2.5	0.030	0.150
2920Z200	16	100	2.00	4.00	1.5	8.0	4.5	0.020	0.120
2920Z250	16	100	2.50	5.00	1.5	8.0	16.0	0.020	0.085
2920Z260	6	100	2.60	5.20	1.5	8.0	10.0	0.014	0.075
2920Z300-6	6	40	3.00	6.00	1.5	8.0	20.0	0.012	0.048
2920Z300-16	16	100	3.00	6.00	1.5	8.0	20.0	0.012	0.048

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.

V max = Maximum operating voltage device can withstand without damage at rated current (Imax).

I max = Maximum fault current device can withstand without damage at rated voltage (V max).

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.

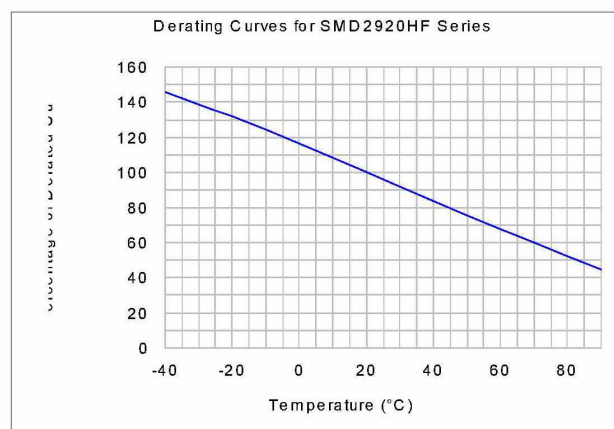
Environmental Specifications

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		

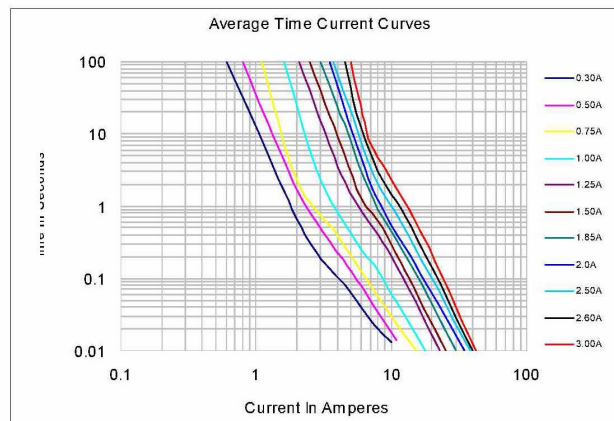
Thermal Derating Chart

Recommended Hold Current (A) at Ambient Temperature (C)									
Model	Ambient Operation Temperature								
	-40C	-20C	0C	25C	40C	50C	60C	70C	85C
2920Z030	0.45	0.40	0.35	0.30	0.25	0.23	0.20	0.17	0.14
2920Z050	0.76	0.67	0.59	0.50	0.42	0.38	0.33	0.29	0.23
2920Z075	1.13	1.01	0.88	0.75	0.62	0.56	0.50	0.44	0.34
2920Z110	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
2920Z125	1.89	1.68	1.46	1.25	1.04	0.94	0.83	0.73	0.56
2920Z150	2.27	2.01	1.76	1.50	1.25	1.13	1.00	0.87	0.74
2920Z0185	2.80	2.47	2.17	1.85	1.54	1.39	1.22	1.07	0.85
2920Z200	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90
2920Z250	3.78	3.35	2.93	2.50	2.08	1.88	1.65	1.45	1.13
2920Z260	3.64	3.25	2.91	2.60	2.26	2.08	1.95	1.74	1.13
2920Z300	4.53	4.02	3.51	3.00	2.52	2.26	1.99	1.75	1.34

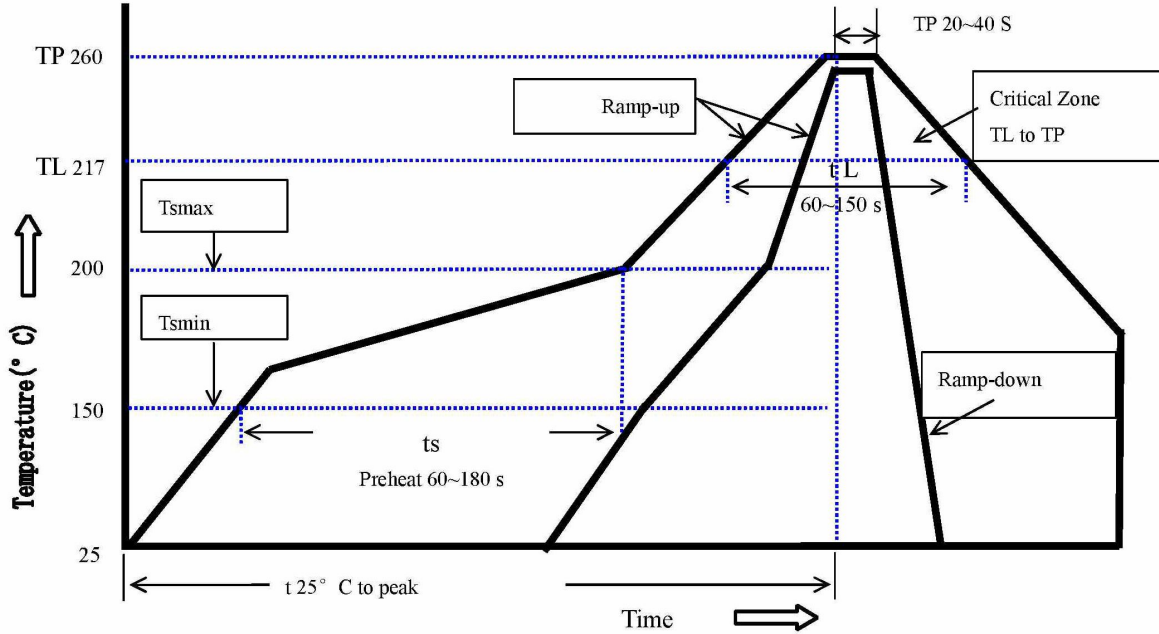
Thermal Derating Curve



Average Time-Current Curve



Soldering Parameters



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate(Ts max to T p)	3°C/second max.
Preheat	
-Temperature Min(Ts min)	150°C
-Temperature Max(Ts max)	200°C
-Time(Ts min to Ts max)	60~180 seconds
Time maintained above:	
-Temperature(TL)	217°C
-Time(tL)	60~150 seconds
Peak Temperature(Tp)	260°C
Ramp-Down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max
Storage Condition	0°C~35°C, ≤70%RH

Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free

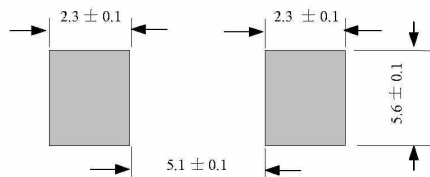
Recommended maximum paste thickness is 0.25mm

Devices can be cleaned using standard industry methods and solvents.

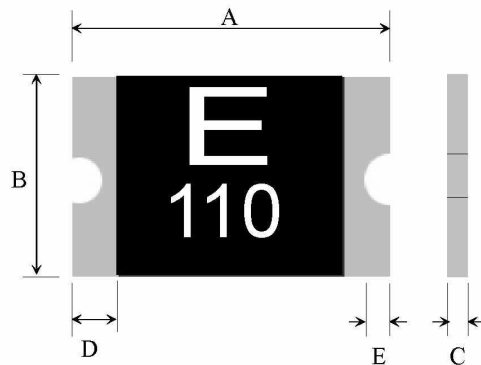
Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Recommended Pad Layout (mm.)



Physical Dimensions(mm.)



Model	A		B		C		D	E
	Min	Max	Min	Max	Min	Max	Min	Min
2920Z030	6.73	7.98	4.80	5.44	0.60	1.30	0.30	0.25
2920Z050	6.73	7.98	4.80	5.44	0.60	1.30	0.30	0.25
2920Z075	6.73	7.98	4.80	5.44	0.60	1.30	0.30	0.25
2920Z110	6.73	7.98	4.80	5.44	0.40	1.00	0.30	0.25
2920Z125	6.73	7.98	4.80	5.44	0.40	0.90	0.30	0.25
2920Z150	6.73	7.98	4.80	5.44	0.40	0.90	0.30	0.25
2920Z0185	6.73	7.98	4.80	5.44	0.30	0.90	0.30	0.25
2920Z200	6.73	7.98	4.80	5.44	0.30	0.90	0.30	0.25
2920Z250	6.73	7.98	4.80	5.44	0.30	0.90	0.30	0.25
2920Z260	6.73	7.98	4.80	5.44	0.30	0.90	0.30	0.25
2920Z300	6.73	7.98	4.80	5.44	0.60	1.30	0.30	0.25

Termination Pad Characteristics

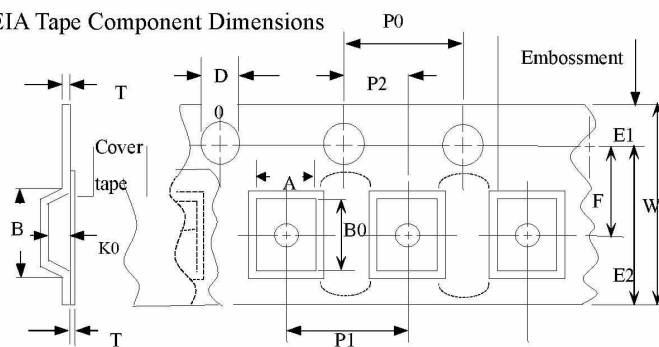
Terminal pad materials: Tin-plated Nickel-Copper

Terminal pad solder ability: Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

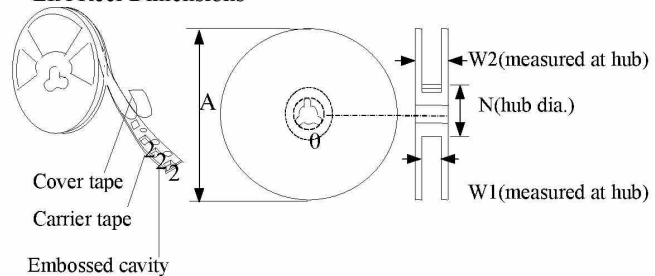
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.00 ± 0.3
P0	4.00 ± 0.10
P1	8.00 ± 0.10
P2	2.00 ± 0.05
A0	5.70 ± 0.10
B0	8.00 ± 0.10
B1max.	12.10
D0	1.50 + 0.1, -0
F	7.50 ± 0.05
E1	1.75 ± 0.10
E2min.	14.25
T	0.60
T1max.	0.10
K0	0.80 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W1	16.40 ± 0.5
W2	22.40

EIA Tape Component Dimensions



EIA Reel Dimensions



Storage And Handling

- Storage conditions: 40°C max, 70% R.H.
- Devices may not meet specified performance if storage conditions are exceeded.