LUTETECH 陆特科技

0805L Series

Surface Mount
Resettable PPTC Devices



Features/特征

- Size 0.08*0.05 inch /2.0*1.2 mm
- Surface mount resettable fuse
- Voltage rating 6V to 90V
- Current rating from 0.01A to 1.50A
- Fast time-to-trip
- Low resistance
- RoHS compliant, lead-free and halogen-free
- Compatible with high temperature solders

Applications/应用

- USB peripherals
- Plug and play protection for motherboards
- Power tools
- Battery and port protection for smart phones
- Game console port protection
- Set-top-boxes
- Tablets, notebooks, laptops and desktops
- Rechargeable battery packs
- Digital cameras
- Appliances and white goods
- Consumer electronics

Part Number System/产品编号

0805 L 002 / 60 X R L

- **Tape & Reel/卷盘包装**
- **Quantity Code/包装数量**
  W=3000,N=3500,A=4000,X=5000
- **Special Voltage Rating/最大电压**
- **Holding Current Rating/保持电流**
- **LUTE/陆特品牌**
- **Dimension Code/尺寸:**
  2012 mm / 0805 inch

Electrical Characteristics (25℃)/电性参数

Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d typ. (W)	Time to Trip (Max.)		Resistance	
							Current (A)	Time (Sec)	R_{min} (Ω)	R_{1max} (Ω)
0805L001/30XR	X	0.01	0.03	30	20	0.5	0.20	1.00	15.00	120.0
0805L001/36XR	X	0.01	0.03	36	20	0.5	0.20	1.00	15.00	120.0
0805L001/60XR	X	0.01	0.03	60	20	0.5	0.20	1.00	15.00	120.0
0805L001/90XR	X	0.01	0.03	90	10	0.5	0.20	1.00	15.00	120.0
0805L002/30XR	Y	0.02	0.06	30	40	0.5	0.10	1.50	12.00	70.00
0805L002/36XR	Y	0.02	0.06	36	40	0.5	0.10	1.50	12.00	70.00

Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d typ. (W)	Time to Trip (Max.)		Resistance	
							Current (A)	Time (Sec)	R_{min} (Ω)	R_{1max} (Ω)
0805L002/60XR	Y	0.02	0.06	60	40	0.5	0.10	1.50	12.00	70.00
0805L002/63XR	Y	0.02	0.06	63	40	0.5	0.10	1.50	12.00	70.00
0805L002/90XR	Y	0.02	0.06	90	10	0.5	0.10	1.50	12.00	70.00
0805L002/110AR	Y	0.02	0.06	110	10	0.5	0.10	1.50	12.00	70.00
0805L003/30XR	Z	0.03	0.09	30	20	0.5	0.20	1.00	6.00	50.00
0805L003/36XR	Z	0.03	0.09	36	20	0.5	0.20	1.00	6.00	50.00
0805L003/60XR	Z	0.03	0.09	60	20	0.5	0.20	1.00	6.00	50.00
0805L003/80XR	Z	0.03	0.09	80	10	0.5	0.20	1.00	6.00	50.00
0805L004/24XR	1	0.04	0.12	24	20	0.5	0.20	1.00	4.00	40.00
0805L004/36XR	1	0.04	0.12	36	20	0.5	0.20	1.00	4.00	40.00
0805L004/60XR	1	0.04	0.12	60	20	0.5	0.20	1.00	4.00	40.00
0805L005/15XR	1	0.05	0.15	15	40	0.5	0.50	1.50	1.500	20.00
0805L005/16XR	1	0.05	0.15	16	40	0.5	0.50	1.50	1.500	20.00
0805L005/24XR	1	0.05	0.15	24	40	0.5	0.50	1.50	1.500	20.00
0805L005/30XR	1	0.05	0.15	30	40	0.5	0.50	1.50	1.500	20.00
0805L005/33XR	1	0.05	0.15	33	40	0.5	0.50	1.50	1.500	20.00
0805L005/36XR	1	0.05	0.15	36	40	0.5	0.50	1.50	1.500	20.00
0805L005/60XR	1	0.05	0.15	60	40	0.5	0.50	1.50	1.500	20.00
0805L005/72AR	1	0.05	0.15	72	40	0.5	0.50	1.50	1.500	20.00
0805L008/15XR	1	0.08	0.24	15	100	0.6	0.50	1.80	1.400	15.00
0805L008/24XR	1	0.08	0.24	24	100	0.6	0.50	1.80	1.400	15.00
0805L008/33XR	1	0.08	0.24	33	100	0.6	0.50	1.80	1.400	15.00
0805L008/60WR	1	0.08	0.24	60	100	0.6	0.50	1.80	1.400	15.00
0805L008/72WR	1	0.08	0.24	72	10	0.6	0.50	1.80	1.400	15.00
0805L010/6XR	1	0.10	0.30	6	40	0.5	0.50	1.50	0.750	6.000
0805L010/9XR	1	0.10	0.30	9	40	0.5	0.50	1.50	0.750	6.000
0805L010/12XR	1	0.10	0.30	12	40	0.5	0.50	1.50	0.750	6.000
0805L010/15XR	1	0.10	0.30	15	40	0.5	0.50	1.50	0.750	6.000
0805L010/24XR	1	0.10	0.30	24	40	0.5	0.50	1.50	0.750	6.000
0805L010/30XR	1	0.10	0.30	30	40	0.5	0.50	1.50	0.750	6.000
0805L010/33XR	1	0.10	0.30	33	40	0.5	0.50	1.50	0.750	6.000
0805L010/33AR	1	0.10	0.30	33	40	0.5	0.50	1.50	0.750	6.000
0805L010/36AR	1	0.10	0.30	36	40	0.5	0.50	1.50	0.750	6.000
0805L010/48AR	1	0.10	0.30	48	10	0.5	0.50	1.50	0.750	8.000
0805L010/48WR	1	0.10	0.30	48	10	0.5	0.50	1.50	0.750	8.000
0805L010/60WR	1	0.10	0.30	60	10	0.5	0.50	1.50	0.750	8.000
0805L010/72WR	1	0.10	0.30	72	10	0.5	0.50	1.50	0.750	8.000
0805L012/15XR	1	0.12	0.32	15	40	0.5	0.50	1.50	0.750	5.500

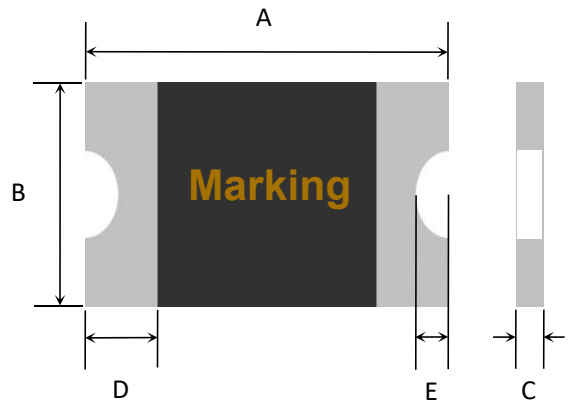
Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d typ. (W)	Time to Trip (Max.)		Resistance	
							Current (A)	Time (Sec)	R_{min} (Ω)	R_{1max} (Ω)
0805L012/30XR	1	0.12	0.32	30	40	0.5	0.50	1.50	0.750	5.500
0805L012/33XR	1	0.12	0.32	33	40	0.5	0.50	1.50	0.750	5.500
0805L012/36AR	1	0.12	0.32	36	40	0.5	0.50	1.50	0.750	5.500
0805L012/48AR	1	0.12	0.32	48	40	0.5	0.50	1.50	0.750	5.500
0805L012/60WR	1	0.12	0.32	60	10	0.5	0.50	1.50	0.750	7.000
0805L016/24AR	1	0.16	0.35	24	40	0.5	0.50	1.50	0.550	5.600
0805L016/33AR	1	0.16	0.35	33	40	0.5	0.50	1.50	0.550	5.600
0805L016/48AR	1	0.16	0.35	48	40	0.5	0.50	1.50	0.550	5.600
0805L020/6XR	2	0.20	0.50	6	40	0.5	8.00	0.02	0.500	3.500
0805L020/9XR	2	0.20	0.50	9	40	0.5	8.00	0.02	0.500	3.500
0805L020/15XR	2	0.20	0.50	15	40	0.5	8.00	0.02	0.500	3.500
0805L020/16XR	2	0.20	0.50	16	40	0.5	8.00	0.02	0.500	3.500
0805L020/24XR	2	0.20	0.50	24	40	0.5	8.00	0.02	0.500	3.500
0805L020/30XR	2	0.20	0.50	30	40	0.5	8.00	0.02	0.500	3.500
0805L020/33XR	2	0.20	0.50	33	40	0.5	8.00	0.02	0.500	3.500
0805L020/36XR	2	0.20	0.50	36	40	0.5	8.00	0.02	0.500	3.500
0805L020/40XR	2	0.20	0.50	40	40	0.5	8.00	0.02	0.500	3.500
0805L020/48AR	2	0.20	0.50	48	40	0.5	8.00	0.02	0.500	3.500
0805L025/6XR	2	0.25	0.55	6	40	0.5	8.00	0.02	0.400	3.000
0805L025/16XR	2	0.25	0.55	16	40	0.5	8.00	0.02	0.400	3.000
0805L025/24XR	2	0.25	0.55	24	40	0.5	8.00	0.02	0.400	3.000
0805L025/30XR	2	0.25	0.55	30	40	0.5	8.00	0.02	0.400	3.000
0805L025/33XR	2	0.25	0.55	33	40	0.5	8.00	0.02	0.400	3.000
0805L025/36XR	2	0.25	0.55	36	40	0.5	8.00	0.02	0.400	3.000
0805L025/48AR	2	0.25	0.55	48	40	0.5	8.00	0.02	0.400	3.000
0805L030/6XR	3	0.30	0.60	6	40	0.5	8.00	0.10	0.300	1.400
0805L030/12XR	3	0.30	0.60	12	40	0.5	8.00	0.10	0.300	1.40
0805L030/16XR	3	0.30	0.60	16	40	0.5	8.00	0.10	0.300	1.400
0805L030/24XR	3	0.30	0.60	24	40	0.5	8.00	0.10	0.300	1.400
0805L030/30XR	3	0.30	0.60	30	40	0.5	8.00	0.10	0.300	1.400
0805L030/33XR	3	0.30	0.60	33	40	0.5	8.00	0.10	0.300	1.400
0805L035/6XR	3	0.35	0.75	6	40	0.5	8.00	0.10	0.200	1.200
0805L035/9XR	3	0.35	0.75	9	40	0.5	8.00	0.10	0.200	1.200
0805L035/12XR	3	0.35	0.75	12	40	0.5	8.00	0.10	0.200	1.200
0805L035/16XR	3	0.35	0.75	16	40	0.5	8.00	0.10	0.200	1.200
0805L035/24XR	3	0.35	0.75	24	40	0.8	8.00	0.10	0.200	1.200
0805L035/30XR	3	0.35	0.75	30	40	0.8	8.00	0.10	0.200	1.200

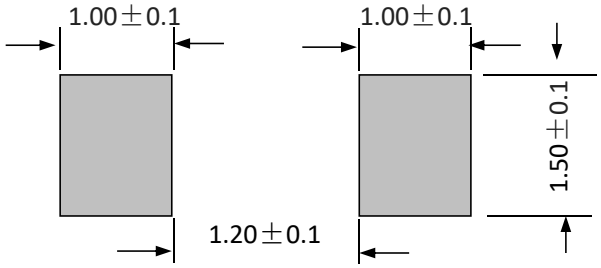
Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d typ. (W)	Time to Trip (Max.)		Resistance	
							Current (A)	Time (Sec)	R_{min} (Ω)	R_{1max} (Ω)
0805L035/33XR	3	0.35	0.75	33	40	0.8	8.00	0.10	0.200	1.200
0805L040/6XR	5	0.40	0.80	6	50	0.5	8.00	0.10	0.200	1.000
0805L040/16AR	5	0.40	0.80	16	50	0.5	8.00	0.10	0.200	1.000
0805L040/24AR	5	0.40	0.80	24	50	0.5	8.00	0.10	0.200	1.000
0805L040/30AR	5	0.40	0.80	30	50	0.5	8.00	0.10	0.200	1.000
0805L050/6XR	5	0.50	1.00	6	40	0.5	8.00	0.10	0.100	0.850
0805L050/6XRL	5	0.50	1.00	6	40	0.5	8.00	0.10	0.100	0.850
0805L050/12XR	5	0.50	1.00	12	40	0.5	8.00	0.10	0.100	0.850
0805L050/13.2XR	5	0.50	1.00	13.2	40	0.5	8.00	0.10	0.100	0.850
0805L050/15XR	5	0.50	1.00	15	40	0.5	8.00	0.10	0.100	0.850
0805L050/16XR	5	0.50	1.00	16	40	0.5	8.00	0.10	0.100	0.850
0805L050/24AR	5	0.50	1.00	24	40	0.8	8.00	0.10	0.100	0.850
0805L050/24XR	5	0.50	1.00	24	40	0.8	8.00	0.10	0.100	0.850
0805L050/30AR	5	0.50	1.00	30	40	0.8	8.00	0.10	0.100	0.850
0805L050/33AR	5	0.50	1.00	33	40	0.8	8.00	0.10	0.100	0.850
0805L050/36AR	5	0.50	1.00	36	40	0.8	8.00	0.10	0.100	0.850
0805L075/6AR	7	0.75	1.50	6	40	0.8	8.00	0.20	0.070	0.385
0805L075/12AR	7	0.75	1.50	12	40	0.8	8.00	0.20	0.070	0.385
0805L075/13.2AR	7	0.75	1.50	13.2	40	0.8	8.00	0.20	0.070	0.385
0805L075/16AR	7	0.75	1.50	16	40	1.0	8.00	0.20	0.070	0.385
0805L075/24AR	7	0.75	1.50	24	40	1.0	8.00	0.20	0.070	0.385
0805L075/30WR	7	0.75	1.50	30	40	1.0	8.00	0.20	0.070	0.450
0805L100/6AR	0	1.00	2.00	6	40	0.8	8.00	0.30	0.040	0.270
0805L100/12AR	0	1.00	2.00	12	40	0.8	8.00	0.30	0.040	0.270
0805L100/13.2AR	0	1.00	2.00	13.2	40	0.8	8.00	0.30	0.040	0.270
0805L100/16AR	0	1.00	2.00	16	40	0.8	8.00	0.30	0.040	0.270
0805L100/24AR	0	1.00	2.00	24	40	0.8	8.00	0.30	0.040	0.270
0805L110/6AR	0	1.10	2.20	6	40	0.8	8.00	0.30	0.035	0.230
0805L110/12AR	0	1.10	2.20	12	40	1.0	8.00	0.30	0.035	0.230
0805L110/13.2AR	0	1.10	2.20	13.2	40	1.0	8.00	0.30	0.035	0.230
0805L110/16WR	0	1.10	2.20	16	40	0.8	8.00	0.30	0.035	0.230
0805L110/24WR	0	1.10	2.20	24	40	0.8	8.00	0.30	0.035	0.230
0805L125/6NR	12	1.25	2.50	6	40	1.2	8.00	1.00	0.025	0.140
0805L125/6AR	12	1.25	2.50	6	40	1.2	8.00	1.00	0.025	0.140
0805L125/12WR	12	1.25	2.50	12	40	1.2	8.00	1.00	0.025	0.140

Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d typ. (W)	Time to Trip (Max.)		Resistance	
							Current (A)	Time (Sec)	R_{min} (Ω)	R_{1max} (Ω)
0805L150/6AR	0	1.50	3.00	6	40	1.2	8.00	1.00	0.015	0.130
0805L150/9AR	0	1.50	3.00	9	40	1.2	8.00	1.00	0.015	0.130
0805L150/12AR	0	1.50	3.00	12	40	1.2	8.00	1.00	0.015	0.130

I_{hold} = Hold current: maximum current device will pass without tripping in 25℃ still air. 保持电流=在 25℃静止空气环境中,元件不动作的最大电流。
I_{trip} = Trip current: minimum current at which the device will trip in 25℃ still air. 动作电流=在 25℃静止空气环境中,元件的最小动作电流。
V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max}). 最大电压=元件在额定电流下能承受的最大电压。
I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}). 最大电流=元件在额定电压下能承受的最大电流。
$P_{d\ typ.}$ = Typical power dissipated from device when in the tripped state at 25℃ still air. 动作功率=在 25℃静止空气环境中,元件动作状态下的消耗功率。
T_{trip} = Maximum time to trip(s) at assigned current reflow soldering of 260℃ for 20 sec. 动作时间=5 倍保持电流下的最大动作时间。
R_{min} = Minimum resistance of device in initial (un-soldered) state. 初始最小电阻=元件焊接前的初始最小阻值。
R_{1max} = Maximum resistance of device at 25℃ measured one hour after tripping or reflow soldering of 260℃ for 20 sec. 焊后最大电阻=元件焊接 1 小时后的最大阻值。
Caution : Operation beyond the specified rating may result in damage and possible arcing and flame. 注意：超出指定额定值的操作，可能会导致损伤并可能产生电弧和火焰.

Product Dimensions (mm)/产品尺寸





Recommended Pad Layout (mm)
建议焊盘布局(mm)

Part Number	Quantity	A		B		C		D	E
		Min	Max	Min	Max	Min	Max	Min	Min
0805L001/30XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L001/36XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L001/60XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L001/90XR	5000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L002/30XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L002/36XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L002/60XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L002/63XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L002/90XR	5000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L002/110AR	4000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L003/30XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L003/36XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10

Part Number	Quantity	A		B		C		D	E
		Min	Max	Min	Max	Min	Max	Min	Min
0805L003/60XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L003/80XR	5000	2.00	2.30	1.20	1.50	0.40	1.30	0.20	0.10
0805L004/24XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L004/36XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L004/60XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L005/15XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L005/16XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L005/24XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L005/30XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L005/33XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L005/36XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L005/60XR	5000	2.00	2.30	1.20	1.50	0.40	1.00	0.20	0.10
0805L005/72AR	4000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L008/15XR	5000	2.00	2.20	1.20	1.50	0.40	0.90	0.20	0.10
0805L008/24XR	5000	2.00	2.20	1.20	1.50	0.40	0.90	0.20	0.10
0805L008/33XR	5000	2.00	2.20	1.20	1.50	0.40	0.90	0.20	0.10
0805L008/60WR	3000	2.00	2.20	1.20	1.50	0.60	1.80	0.20	0.10
0805L008/72WR	3000	2.00	2.20	1.20	1.50	0.60	1.80	0.20	0.10
0805L010/6XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L010/9XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L010/12XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L010/15XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L010/24XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L010/30XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L010/33XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L010/33AR	4000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L010/36AR	4000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L010/48AR	4000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L010/48AR	3000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L010/48WR	3000	2.00	2.30	1.20	1.50	0.60	1.80	0.20	0.10
0805L010/60WR	3000	2.00	2.30	1.20	1.50	0.60	1.80	0.20	0.10
0805L010/72WR	3000	2.00	2.30	1.20	1.50	0.60	1.80	0.20	0.10
0805L012/15XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L012/30XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L012/33XR	5000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L012/36AR	4000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L012/48AR	4000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L012/60WR	3000	2.00	2.30	1.20	1.50	0.60	1.80	0.20	0.10

Part Number	Quantity	A		B		C		D	E
		Min	Max	Min	Max	Min	Max	Min	Min
0805L016/24AR	4000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L016/33AR	4000	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.10
0805L016/48AR	4000	2.00	2.30	1.20	1.50	0.60	1.20	0.20	0.10
0805L020/6XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L020/9XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L020/15XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L020/16XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L020/24XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L020/30XR	5000	2.00	2.30	1.20	1.50	0.50	1.20	0.20	0.10
0805L020/33XR	5000	2.00	2.30	1.20	1.50	0.50	1.20	0.20	0.10
0805L020/36XR	5000	2.00	2.30	1.20	1.50	0.50	1.20	0.20	0.10
0805L020/40XR	5000	2.00	2.30	1.20	1.50	0.50	1.20	0.20	0.10
0805L020/48AR	4000	2.00	2.30	1.20	1.50	0.50	1.20	0.20	0.10
0805L025/6XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L025/16XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L025/24XR	5000	2.00	2.30	1.20	1.50	0.50	1.00	0.20	0.10
0805L025/30XR	5000	2.00	2.30	1.20	1.50	0.50	1.20	0.20	0.10
0805L025/33XR	5000	2.00	2.30	1.20	1.50	0.50	1.20	0.20	0.10
0805L025/36XR	5000	2.00	2.30	1.20	1.50	0.50	1.30	0.20	0.10
0805L025/48AR	4000	2.00	2.30	1.20	1.50	0.50	1.30	0.20	0.10
0805L030/6XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L030/12XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L030/16XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L030/24XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L030/30XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L030/33XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L035/6XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L035/9XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L035/12XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L035/16XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L035/24XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L035/30XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L035/33XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L040/6XR	5000	2.00	2.30	1.20	1.50	0.35	1.00	0.20	0.10
0805L040/16AR	4000	2.00	2.30	1.20	1.50	0.45	1.10	0.20	0.10
0805L040/24AR	4000	2.00	2.30	1.20	1.50	0.45	1.10	0.20	0.10
0805L040/30AR	4000	2.00	2.30	1.20	1.50	0.45	1.10	0.20	0.10
0805L050/6XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10

Part Number	Quantity	A		B		C		D	E
		Min	Max	Min	Max	Min	Max	Min	Min
0805L050/6XRL	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/12XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/13.2XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/15XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/16XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/24AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/24XR	5000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/30AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/33AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L050/36AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L075/6AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L075/12AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L075/13.2AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L075/16AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L075/24AR	4000	2.00	2.30	1.20	1.50	0.50	1.10	0.20	0.10
0805L075/30WR	3000	2.00	2.30	1.20	1.50	0.60	1.80	0.20	0.10
0805L100/6AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L100/12AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L100/13.2AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L100/16AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L100/24AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L110/6AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L110/12AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L110/13.2AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L110/16WR	3000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L110/24WR	3000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L125/6NR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L125/6AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L125/12WR	3000	2.00	2.30	1.20	1.50	1.00	1.50	0.20	0.10
0805L150/6AR	4000	2.00	2.30	1.20	1.50	0.70	1.20	0.20	0.10
0805L150/9AR	4000	2.00	2.30	1.20	1.50	0.70	1.50	0.20	0.10
0805L150/12AR	4000	2.00	2.30	1.20	1.50	0.70	1.50	0.20	0.10

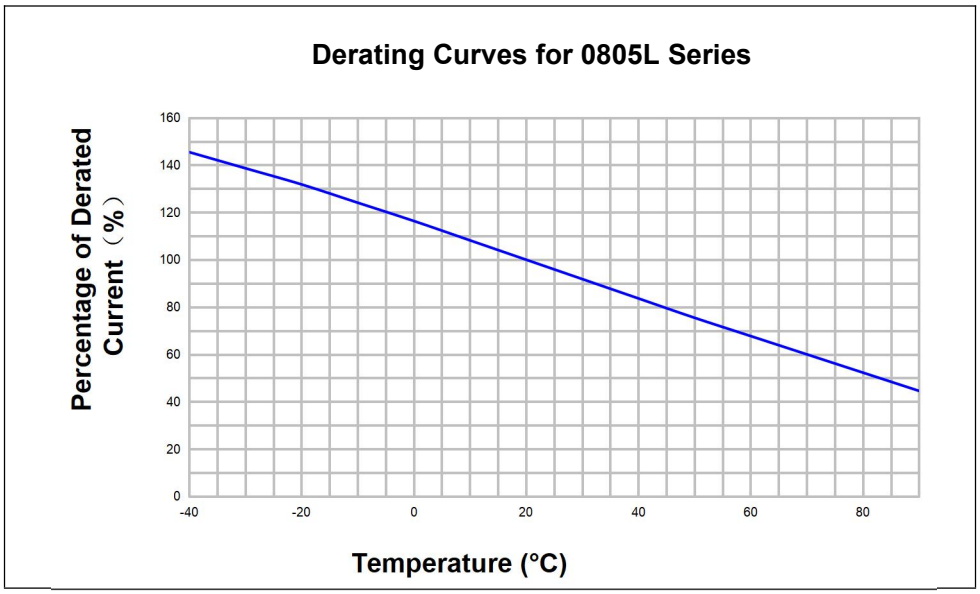
Temperature Derating/不同环境温度下的 I_{hold}

Test 测试项目	Conditions 条件	Resistance change 电阻变化
Resistance to solvent 抗溶剂性能	MIL-STD-202,Method 215	No change
Vibration 抗震性	MIL-STD-202,Method 201	No change
Ambient operating conditions : - 40 °C to +85 °C 工作环境温度		
Maximum surface temperature of the device in the tripped state is 125°C. 保护状态下的元件表面最高温度为 125°C		

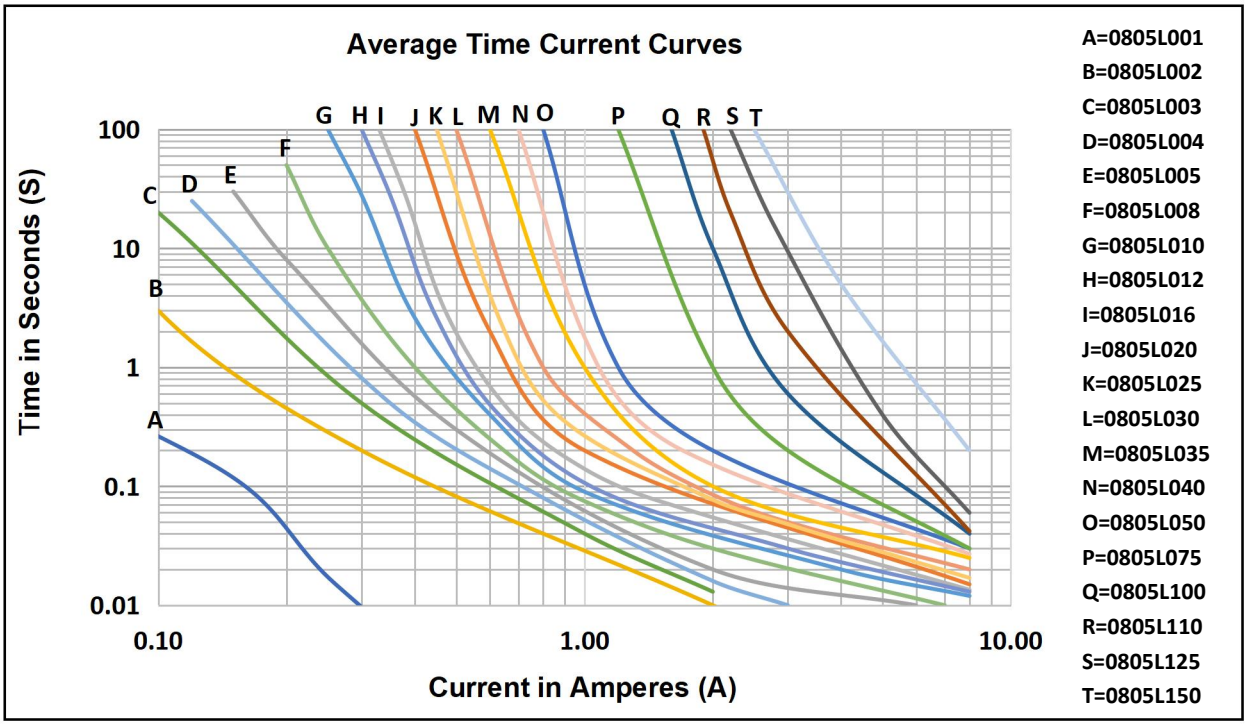
Temperature Derating/不同环境温度下的 I_{hold} 值

Part Number	Ambient operating temperature hold current (I_{hold})								
	-40℃	-20℃	0℃	25℃	40℃	50℃	60℃	70℃	85℃
0805L001	0.016	0.014	0.012	0.01	0.008	0.007	0.006	0.005	0.0035
0805L002	0.030	0.027	0.024	0.02	0.017	0.016	0.014	0.012	0.010
0805L003	0.048	0.041	0.036	0.03	0.024	0.021	0.018	0.016	0.011
0805L004	0.052	0.048	0.044	0.04	0.032	0.028	0.024	0.02	0.012
0805L005	0.070	0.060	0.055	0.05	0.040	0.035	0.030	0.025	0.015
0805L008	0.12	0.10	0.09	0.08	0.06	0.05	0.04	0.03	0.02
0805L010	0.14	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.03
0805L012	0.18	0.16	0.15	0.12	0.10	0.09	0.08	0.06	0.05
0805L016	0.22	0.19	0.18	0.16	0.13	0.12	0.10	0.09	0.06
0805L020	0.28	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07
0805L025	0.35	0.31	0.29	0.25	0.21	0.18	0.15	0.13	0.09
0805L030	0.42	0.38	0.35	0.30	0.26	0.21	0.18	0.15	0.11
0805L035	0.47	0.44	0.39	0.35	0.30	0.27	0.24	0.20	0.14
0805L040	0.65	0.60	0.50	0.40	0.38	0.35	0.30	0.27	0.20
0805L050	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23
0805L075	1.00	0.90	0.79	0.75	0.63	0.57	0.53	0.41	0.34
0805L100	1.35	1.25	1.15	1.00	0.82	0.74	0.65	0.55	0.42
0805L110	1.45	1.35	1.20	1.10	0.92	0.84	0.75	0.65	0.52
0805L125	1.65	1.53	1.36	1.25	1.05	0.95	0.85	0.74	0.59
0805L150	1.98	1.84	1.63	1.50	1.26	1.14	1.02	0.88	0.71

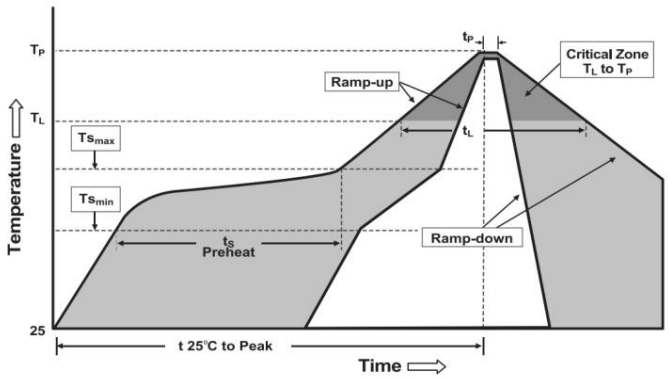
Thermal Derating Curve/环境温度与工作电流关系特性图



Typical Time-to-Trip at 25℃/25℃跳闸保护时间曲线表



Soldering Parameters/焊接参数

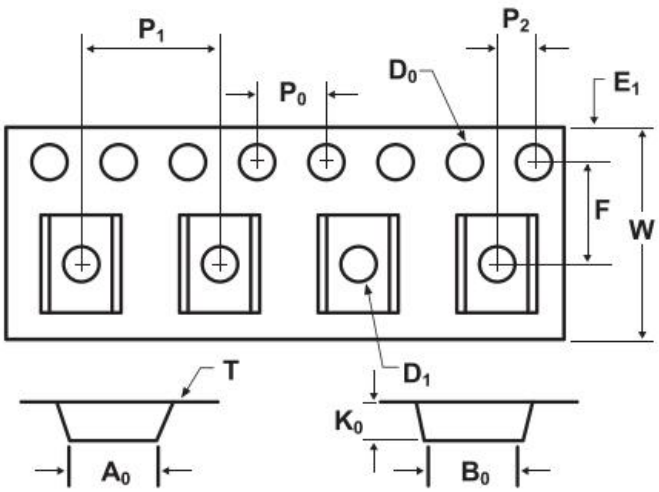


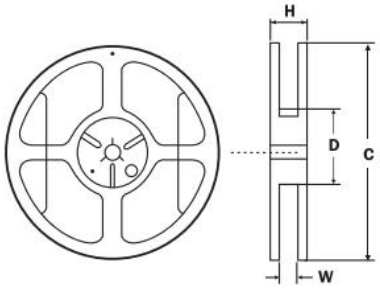
- Recommended reflow methods: IR, vapor phase oven, hot air oven, N_2 environment for lead-free;
  推荐的回流方法：红外光谱，气相炉，热空气炉中，氮气环境，无铅焊接;
- Recommended maximum paste thickness is 0.25mm;
  推荐刷锡厚度最大为 0.25mm;
- Devices can be cleaned using standard industry methods and solvents;
  产品可以使用行业标准的方法和溶剂清洗;

Note 1: All temperature refer to topside of the package, measured on the package body surface;
注 1：所有的温度是在焊接时，在产品上所测量出来;
Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
注 2：如果回流温度超过推荐参数要求，产品可能无法满足性能要求.

Profile Feature 特征		Pb-Free Assembly 无铅焊锡
Average Ramp-Up Rate ($T_{s(max)}$to T_p) 平均升温速度		3℃/second max
Preheat 预热	**-Temperature Min($T_{s(min)}$)** 最低温度	150℃
	-Temperature Max($T_{s(max)}$) 最高温度	200℃
	-Time($T_{(smin)}$ to $T_{(smax)}$) 预热时间	60~180 seconds
Time maintained above: 保持时间	**-Temperature(T_L)** 温度	217℃
	-Time(t_L) 时间	60~150 seconds
Peak Temperature (T_p) 峰值温度		260℃
Time within 5°C of actual Peak : Temperature (tp)		20-40 seconds
Ramp-Down Rate 降温		6℃/second max
Time 25℃ to Peak Temperature 从 25℃到峰值温度时间		8 minutes max
Storage Condition 储存条件		0℃~30℃ 30%-60%RH

Tape And Reel Specifications (mm)/料带和卷盘规格





Reel Dimensions 卷盘规格	
C	φ178 ± 1.0
D	φ60.2 ± 0.5
H	11.0 ± 0.5
W	9.0 ± 1.5

Governing Specifications 料带规格	0805L001 ~ 0805L016	0805L020/9XR~ 0805L020/24XR, 0805L025/6XR~ 0805L025/24XR	0805L020/30XR~ 0805L020/48AR, 0805L025/30XR~ 0805L025/48AR, 0805L030 ~ 0805L075/24AR	0805L008/60WR~72WR 0805L010/48WR~72WR, 0805L012/60WR, 0805L075/30WR, 0805L100 ~ 0805L150
W	8.0 ± 0.3	8.0 ± 0.3	8.0 ± 0.3	8.0 ± 0.3
F	3.5 ± 0.05	3.5 ± 0.05	3.5 ± 0.05	3.5 ± 0.05
E1	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1
D0	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05
D1	1.0 ± 0.1	1.0 ± 0.1	1.0 ± 0.1	1.0 ± 0.1
P0	4.0 ± 0.1	4.0 ± 0.1	4.0 ± 0.1	4.0 ± 0.1
P1	4.0 ± 0.1	4.0 ± 0.1	4.0 ± 0.1	4.0 ± 0.1
P2	2.0 ± 0.05	2.0 ± 0.05	2.0 ± 0.05	2.0 ± 0.05
A0	1.6 ± 0.1	1.6 ± 0.1	1.6 ± 0.1	1.6 ± 0.1
B0	2.3 ± 0.1	2.3 ± 0.1	2.3 ± 0.1	2.3 ± 0.1
T	0.2 ± 0.1	0.2 ± 0.1	0.2 ± 0.1	0.2 ± 0.1
K0	0.74 ± 0.1	0.85 ± 0.1	1.04 ± 0.1	1.35 ± 0.1
Leader $_{min}$	390	390	390	390
Trailer $_{min}$	160	160	160	160

WARNING

- Users shall independently assess the suitability of these devices for each of their applications.
- Users shall independently assess the suitability of these devices for each of their applications.
- Operation of these devices beyond the stated maximum ratings could result in damage to the devices and lead to electrical arcing and/or fire.
- These devices are intended to protect against the effects of temporary over-current or over-temperature Conditions and are not intended to perform as protective devices where such conditions are expected to be repetitive or prolonged in duration.
- Exposure to silicon-based oils, solvents, electrolytes, acids, and similar materials can adversely affect the prolonged of these PPTC devices.
- These devices undergo thermal expansion under fault conditions, and thus shall be provided with adequate space and be protected against mechanical stresses.
- Circuits with inductance may generate a voltage (L di/dt) above the rated voltage of the PPTC device.

Cautions for SMD PPTC Use/贴片 PPTC 使用注意事项

1. PTC Device is a resettable overcurrent circuit protection device used to protect against overcurrent faults in electronic circuits. It cannot be used as a switch, and multiple times tripping will reduce the PTC hold current.

   PTC 器件是一种可复位的过流电路保护元件，用于保护电子电路中的过流故障。 不能作为开关使用，重复多次保护会降低 PTC 的维持电流。

2. The PTC is a thermally sensitive device with a positive temperature coefficient which means that the resistance increases with increasing temperature. It is recommended to keep away from heat source devices when designing to minimize the influence of external heat sources.

   PTC 是一种具有正温度系数的热敏器件，即电阻随温度升高而增大。 设计时建议远离热源器件，尽量减少外部热源的影响。

3. This product should not be used in an application where the maximum voltage or maximum current can be exceeded in a fault condition. Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

   本产品不应用于在故障条件下可能超过最大电压或最大电流的应用中。 超出最大额定值的操作或不当使用可能会导致 PTC 损坏，出现电弧现象，甚至烧毁。

4. Hold current at all temperature specified in the specification is the conventional performance of PTC obtained by one reflow soldering. It can hold 1 hour under the current conditions corresponding to different temperatures. This current is not the condition of long-term charging or discharging current for this type of PTC.

   规格书中所规定的各温度下的维持电流是 PTC 通过一次回流焊接后获得的常规性能。 PTC 在不同温度对应的当前电流条件下可保持 1 小时。 该电流并不是该型号 PTC 能够适应的长期充电或放电电流的条件。

5. The resistance and other electrical parameters indicated in the specification are all based on the test results of the manufacturer's designated test board by one reflow soldering. If there is any further heat generated process like multiple soldering, injection molding, dispensing, the product parameters will decrease at certain degree. Therefore the verification test to be conducted is necessary.

   规格书中的电阻等电气参数均以厂家指定测试板一次回流焊的测试结果为准。 如果有进一步的发热过程，如多次焊接、注塑、点胶等，产品参数会有所衰减。 因此需要进行验证测试其适用性。

6. SMD PTC is designed for the SMT process which applies reflow soldering. For reflow soldering, please refer to the recommended curve diagram. If the recommended value is exceeded, the internal resistance of PTC may increase. Hand soldering is not recommended and heat gun is not allowed to use during the circuit boards rework. If there is soldering iron welding process, it is recommended that the welding position should be more than 1.5mm away from PTC, the welding temperature should be lower than 350℃, and the contact time with the solder joint should not exceed 3 seconds.

   SMD PTC 是为采用回流焊接的 SMT 工艺设计的。 焊接工艺请参考厂家推荐的回流焊曲线图。 如果超过推荐值，PTC 的内阻可能会增加并受到损伤。禁止使用手工焊接，禁止电路板返工时使用热风枪。 如果有烙铁焊接工艺，建议焊接位置离 PTC 1.5mm 以上，焊接温度低于 350℃，与焊点接触时间不超过 3 秒。

7. When mounting or using PTC, all injection molding materials, curing adhesives, UV glue, silica gel and cleaning agents or solvents must be tested in terms of application parameters e.g. temperature, time, and etc to ensure the consistency between the product and the processing before use.

   贴装或应用 PTC 时，所有注塑材料、固化粘合剂、UV 胶、硅胶和清洁剂或溶剂都必须在应用参数方面进行测试，例如温度、时间等，以保证产品及工艺的匹配性，确认不会影响 PTC 性能之后方可使用。

8. When mounting or using PTC, it is not recommended to use circuit board washer water or other cleaning agent. If cleaning is required, it is necessary to verify the applicability of various cleaning agents, washboard water and solvents, and confirm that they will not affect the PTC performance. The known chemicals that impacts PTC include but not limited to ethers, benzene homolog, ketones, lipids and derivatives that is of strong solubleness and ruinous. Please place the product in open environment for at least 24 hours to volatilize solvents residuals.

贴装或应用 PTC 时，不建议使用电路板清洗水或其他清洁剂。 如果需要清洗时，需要验证各种清洗剂、洗板水和溶剂的适用性，并确认它们不会影响 PTC 性能。 已知的影响 PTC 的化学药品包括但不限于醚类、苯同系物、酮类、脂类和具有强溶解性和破坏性的有机化合物。 清洗后请将产品放置在开放环境中至少 24 小时以充分挥发溶剂残留物。

9. When PTC is welded to the PCB in product application, if injection or gluing is needed, it should be completed in as short a time as possible. If the time slot between mounting and injection or gluing surpasses 1 month, please keep in airtight environment to avoid long air exposure.

产品应用中 PTC 焊接到 PCB 后，如需注胶或胶合，应在尽可能短的时间内完成。 如果贴装和注塑或涂胶之间的时间间隔超过 1 个月，请密封保存，避免 PTC 长时间暴露在空气中。

10. In charging terminal application, PP type material is recommended to use as inner membrane and TPE and PVC type material is inhibited.

PTC 在充电终端应用中，建议使用 PP 类材料作为内膜，禁止使用 TPE 类和 PVC 类材料。

11. LUTE SMD PTC humidity sensitivity grade 2, for sealed packaging. If customers find damaged packaging in stock, they should isolate the product immediately. If there is any surplus material, they needs to be restored to the previous packaging state and do sealed storage.

陆特 SMD PTC 湿敏度为 2 级且爲密封包装。 如果客户发现库存中包装损坏，应立即将产品隔离。使用时如有余料，需恢复成之前的包装状态，并且密封保存。