Polymer

Wayon Electronics Co., Ltd.

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LP-TSML050/8

PTC Devices

Surface Mount Thermistor

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Features

- Small size 0603
- Lead-free and compliant with the European Union RoHS Directive (EU)2015/863
- Fast tripping resettable circuit protection
- Surface mount packaging for automated assembly
- Agency Recognition: UL

Product Dimension (mm)

Dort Number	Α	В	С	D	Part	
Part Number -	Тур.	Тур.	Тур.	Тур.	Marking	
LP-TSML050/8	$1.60 {\pm} 0.20$	$0.80 {\pm} 0.20$	$0.55 {\pm} 0.20$	$0.30{\pm}0.15$	•	

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Electrical Characteristics

Part Number (A) (A) (A)					
(A) (A) (V) (A)	Current(A)	Time(S)	(W)	(Ω)	(Ω)
LP-TSML050/8 0.50 1.00 8.0 25.0	0 8.00	0.60	0.5	0.050	0.400

I_H=Hold current: maximum current at which the device will not trip at 25°C still air.

I_T=Trip current: minimum current at which the device will always trip at 25°C still air.

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

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

 T_{trip} =Maximum time to trip(s) at assigned current.

Pdtvp=Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

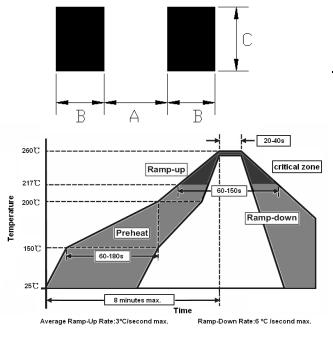
R_{min}=Minimum device resistance at 25°C prior to tripping.

R_{1max}=Maximum device resistance measured in the nontripped state 1 hour post reflow.

Thermal Derating

LP-TSML050/8	Maximum ambient operating temperature(°C)									
LF-1 SIVILU30/8	-40	-20	0	20	25	40	50	60	70	85
Hold Current (A)	0.67	0.58	0.54	0.52	0.50	0.43	0.37	0.34	0.28	0.20
Trip Current (A)	1.34	1.16	1.08	1.04	1.00	0.86	0.74	0.68	0.56	0.40

Solder Reflow Recommendation



Solder Pad Layout					
Dort Number	Α	В	С		
Part Number —	(mm)	(mm)	(mm)		
LP-TSML050/8	0.60	1.10	1.00		

* Recommended reflow methods: IR, vapor phase, hot air oven. Notes:

- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
- Devices are not designed to be wave soldered to the bottom side of the board.

Package Information

Tape & Reel:5000pcs per reel.

Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.

Caution: Operation beyond the rated voltage or current may result in rupture electrical arcing or flame.

Specifications are subject to change without notice.

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	0:20F2	Polymer					
	022-11-17	•	Wayon Electronics Co., L	-iu			
PART N		PTC Devices	No.1001, Shiwan 7th Road, Pud Tel: 86-21-50968309	long, Shanghai 201202, P.R.China Fax: 86-21-50968310			
LP-T	SML050/8	Surface Mount Thermistor	E-mail: market@way-on.com	Http://www.way-on.com			
SMD PTC 使用注意事项							
			ons for SMD PTC U				
1.	请在规格书规定 阻值升高,甚至	定的最大电压和最大电流下使用		电流规格值的操作,可能会导致 PTC 出现电弧,			
2.	Operation beyo 规格书所规定的	ond the maximum voltage or c	PTC 经过一次回流焊接得出	lamage and possible electrical arcing or flame. 出的常规性能,PTC 能够在不同温度对应的电流 自由流的多件。			
	Hold current at reflow welding.	all temperatures specified in t	he SPEC is the conventiona urrent conditions at a given t	al performance of PTC obtained by one time temperature. This current is not the condition			
3.	规格书所规定的 注塑点胶等其他	为电阻以及电气特性,均是基于 也热工序,会对上述参数有一定	在维安指定测试板经过一次 程度的衰减。所以需要验证				
	generated proc at certain degr	cess like injection or dispensing ee. Therefore the verification to	g at the customer's premise, est to be conducted is neces				
4.		ermal sensitive device. It is reco		元件,尽量减少外部热源的影响。 y heat source devices around it to reduce the			
5.	PTC 贴片产品; 温度超过推荐的	是为 SMT 工艺设计的封装形式 的值,PTC 将有可能受到损伤。	禁止使用手工焊接 PTC,禁	工艺可参考维安推荐的回流焊曲线。如果回流焊 《止对线路板其他元件或端子返工时使用热风枪。 g. Please refer to the Wayon recommended			
	curve for refere	ence. If the reflow soldering ter	nperature exceeds the reco	mmended value, the PTC might be damaged. e circuit board components or terminals			
6.	PTC 贴装或应/ 应用参数(如温	温度、时间等)进行验证,以确	保产品及工艺的匹配性,确	出剂、硅胶,需要对注塑料胶料等材料牌号以及 认不会影响 PTC 性能之后方可使用。			
	agents or solve consistency be	ents must be tested in terms of tween the product and the pro	application parameters e.g. cessing before use.	esives, UV glue , silica gel and cleaning . temperature, time, and etc to ensure the			
7.	的适用性,确认 脂类等较强溶触	N不会影响 PTC 性能之后方可住	使用。已知对 PTC 有影响的	须使用,需要验证各类清洗剂、洗板水以及溶剂 化学药品包括但不仅限于醚类、苯类、酮类以及 境中至少 24 小时,将残留的溶剂进行充分的挥			
	cleaning is req and confirm the limited to ether	uired, it is necessary to verify t at they will not affect the PTC p s, benzene homolog, ketones,	he applicability of various cloperformance . The known ch lipids and derivates that is	I washer water or other cleaning agent. If eaning agents, washboard water and solvents, nemicals that impacts PTC include but not s of strong solubleness and ruinous. Please			
8.	装配过程中, 避 Please do not		、刺等方式作用 PTC 本体,				
9.	个月,则需密闭	PTC 焊接至保护板后,如需注 引保存,可避免 PTC 长时间暴露	露于空气环境中。	间内完成,如贴装与注塑打胶时间间隔超过1			
	short a time as airtight environ	possible. If the time slot betwee ment to avoid long air exposur	een mounting and injection of e.	ing is needed, it should be completed in as or gluing surpasses 1 month,, please keep in			
	PTC is resettal PTC hold curre	ent.	all not be taken for use as sv	witch. Multiple times tripping shall lower the			
	In charging ter material is inhi	bited.	erial is recommended to use	e as inner membrane and TPE and PVC type			
12.	点的接触时间7	下超过 3sec。		以上,焊接工具温度低于 350℃,焊接铁头与焊 ess, it is suggested that the welding position sh			
13.	ould be more t me between so	han 1.5mm away from PTC, th oldering iron and solder joint sh	e welding tool temperature a nould not exceed 3sec.	should be lower than 350°C, and the contact ti 有包装破损的,立即将产品隔离处理,使用时如			
	有余料, 需恢复 Wayon low res packaging in s	夏之前包装状态,做密封保存。 istance SMD PTC humidity se tock, they should isolate the pr	nsitivity grade 2, for sealed r	packaging. If customers find damaged s surplus material, they need to restore the			
14.	产品报废时,可 When the prod	us , and do sealed storage. 订随着终端的产品,按照当地的 uct is finally discarded, it can b ositions of PPTC can be referred	be treated recycled in accord	材料组成可参见 MSDS。 dance with local laws and regulations, and raw			
15.	建议在设计保持	^D 板时尽量使 PTC 远离精密电器 ded to keep PTC away from p	且和 MOS。	S as much as possible when designing the			
Sp		subject to change without not	ice.	Page 2 of 2			

单击下面可查看定价,库存,交付和生命周期等信息

>>WAY-ON(维安)