

Additional Information



Resources





Samples

Accessories

Agency Approvals

Agency	Agency File Number
c '712 'us	E183209
A	R50119118

Description

Littelfuse Low Rho Surface Mount PPTC (Polymer Positive Temperature Coefficient) devices provide overcurrent protection for applications where ultra low internal resistance, ultra low voltage drop and automatic resettable protection are desired. This new series allows a higher hold current device in a smaller factor and lower profile as compared to a standard PPTC. It offers ultra low internal resistance while maintaining the high level electrical characteristics and performances of standard PPTC products. All devices are UL recognized and TUV approved and have maximum fault current of 50A. They are available in 0402 to 2920 sizes while the hold current ranges from 100mA to 9A.

Features & Benifits

- Ultra low internal resistance
- Very thin profile
- Miniature size saves board space
- Allows a higher hold current dvice in a smaller factor and lower profile as compared to a standard PPTC
- Fast response to fault currents

- Compatible with high temperature solders
- Broadest range of Hold Current ratings (100mA to 9A)
- RoHS compliant, Lead Free and Halogen Free
- UL recognized and TUV approved

Applications

- USB peripherals including new USB 3.0 / 2.0 ports
- Li-ion / Li-Polymer battery packs
- Smart phones
- Tablet and Notebook PCs
- E-readers

- LCD / LED HDTV
- Computer periperals
- Digital cameras and video cameras
- Hard disk drives
- Game consoles

WARNING

- 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 performance 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.



Electrical Characteristics

	Electrical Characteristics											
Part Number	Marking	I _{hold} (A)	I trip	V _{max} (Vdc)	I _{max} (A)	P d typ.		Time-To-Trip Time (Sec.)	Resis R _{min} (Ω)	tance R _{1max} (Ω)	Agency A	Approvals
0402L010SL	-	0.10	0.30	6	40	0.5	0.50	1.00	0.150	2.000	X	X
0402L020SL	_	0.20	0.50	6	40	0.5	1.00	1.00	0.100	1.250	X	X
0402L035SL	-	0.35	0.70	6	40	0.5	8.00	0.10	0.050	0.700	X	X
0402L050SL	-	0.50	1.00	6	40	0.5	8.00	0.10	0.040	0.400	X	X
0402L075SL	-	0.75	1.50	6	40	0.5	8.00	0.10	0.030	0.300	Χ	Χ
0402L100SL	-	1.00	2.00	6	40	0.5	8.00	0.20	0.030	0.250	Χ	Χ
0603L050SL	K	0.50	1.00	6	50	0.6	8.00	0.10	0.070	0.350	Χ	Χ
0603L075SL	N	0.75	1.50	6	50	0.6	8.00	0.20	0.020	0.165	Χ	Χ
0603L100SL	S	1.00	1.80	6	50	0.6	8.00	0.30	0.040	0.120	Χ	Χ
0603L150SL	Т	1.50	3.00	6	50	0.6	8.00	0.50	0.007	0.080	X	X
0603L175SL	V	1.75	3.50	6	50	0.6	8.00	0.60	0.005	0.060	X	X
0603L200SL-V	X	2.00	4.00	6	50	0.6	8.00	1.00	0.005	0.040	X	X
0603L300SL	Y	3.00	6.00	6	50	0.6	8.00	5.00	0.003	0.030	X	X
0805L075SL	-G -H	0.75	1.50 1.80	6	50 50	0.6	8.00 8.00	0.20 0.30	0.040	0.150 0.120	X	X
0805L110SL 0805L150SL	-n -K	1.10 1.50	3.00	6	50	0.6	8.00	0.50	0.030	0.120	X	X
0805L175SL	-N	1.75	3.50	6	50	0.6	8.00	0.60	0.015	0.055	X	X
0805L200SLTH	-v -L	2.00	4.00	6	50	0.6	8.00	1.00	0.005	0.035	X	X
0805L260SLTH	-S	2.60	5.20	6	50	0.6	8.00	4.00	0.003	0.045	X	X
0805L300SL	-S	3.00	6.00	6	50	0.6	8.00	5.00	0.003	0.030	X	X
0805L300SLTH	-N	3.00	6.00	6	50	0.6	8.00	5.00	0.003	0.030	X	X
0805L350SL	-T	3.50	7.00	6	50	0.6	8.00	5.00	0.003	0.025	X	X
0805L400SL	-Y	4.00	9.00	6	50	0.6	20.00	2.00	0.003	0.018	X	X
1206L075SL	-G	0.75	1.50	6	50	0.8	8.00	0.30	0.017	0.180	X	X
1206L110SL	-H	1.10	2.20	6	50	0.8	8.00	0.30	0.015	0.100	Χ	X
1206L150SL	-K	1.50	3.00	6	50	0.8	8.00	0.30	0.010	0.055	Χ	Χ
1206L110/12SL	-H1	1.10	2.20	12	50	0.8	8.00	0.30	0.015	0.130	Χ	Χ
1206L150/12SL	-K1	1.50	3.00	12	50	0.8	8.00	0.50	0.010	0.080	X	Χ
1206L175SL	-F	1.75	3.50	6	50	8.0	8.00	0.40	0.005	0.030	Χ	Χ
1206L200SL	-L	2.00	4.00	6	50	0.8	8.00	0.50	0.005	0.025	Χ	X
1206L260SLTH	-S	2.60	5.00	6	50	0.8	8.00	4.00	0.003	0.026	Χ	Χ
1206L260/12SL	-S1	2.60	5.00	12	50	0.8	8.00	4.00	0.003	0.055	X	X
1206L300SLTH	-N	3.00	6.00	6	50	0.8	8.00	4.00	0.003	0.020	X	X
1206L300/12SL	-N1	3.00	6.00	12	50	0.8	8.00	4.00	0.003	0.030	X	X
1206L350SLTH	-T	3.50	7.00	6	50	0.8	8.00	5.00	0.003	0.018	X	X
1206L350/12SL	CT -V	3.50 2.82*	7.00	12 6	50 50	0.8	8.00	5.00	0.003	0.020	X	X
1206L380SLTH*	-v -Y		8.00 8.00		50	0.8	8.00	5.00	0.002	0.014 0.016	X	X
1206L400SL 1206L400/12SL	CY	4.00 4.00	8.00	6 12	50	0.8	20.00	2.00	0.001	0.016	X	X
1206L400/123L	-Z	4.50	9.00	6	50	0.8	22.50	2.00	0.003	0.010	X	X
1206L450/12SL	CZ	4.50	9.00	12	50	1.0	22.50	2.00	0.001	0.014	X	X
1206L500SL-V	-M	5.00	10.00	6	50	1.0	25.00	2.00	0.001	0.012	X	X
1206L500/12SL	CM	5.00	10.00	12	50	1.0	25.00	2.00	0.001	0.012	X	X
1206L600SL	-W	6.00	12.00	6	50	1.0	30.00	2.00	0.001	0.010	X	X
1210L175SL	-J	1.75	3.50	6	50	0.8	8.00	2.50	0.006	0.040	Χ	Χ
1210L200SL	-L	2.00	4.00	6	50	0.8	8.00	3.00	0.005	0.024	Χ	Χ
1210L260SL	-S	2.60	5.00	6	50	0.8	8.00	4.00	0.003	0.020	X	X
1210L300SL	-N	3.00	6.00	6	50	0.8	15.00	2.00	0.003	0.020	X	X
1210L350SL	-T	3.50	7.00	6	50	0.8	17.50	2.00	0.003	0.018	X	X
1210L380SL	-X	3.80	8.00	6	50	1.0	8.00	5.00	0.002	0.016	X	X
1210L400SL	-V	4.00	8.00	6	50	1.0	8.00	5.00	0.001	0.014	X	X
1210L450SL	-Y	4.50	9.00	6	50	1.0	22.50	2.00	0.001	0.014	X Davadia s	X
1210L450/12SL	CY	4.50	9.00	12	50	1.2	22.50	2.00	0.001	0.014	Pending	Pending
1210L500SL	-M	5.00	10.00	6	50	1.2	25.00	2.00	0.001	0.012	X	X
1210L500/12SL	CM	5.00	10.00	12 6	50	1.2	25.00	2.00	0.001	0.012		
1210L550SL 1210L600SL	-R -W	5.50 6.00	11.00 12.00	6	50 50	1.2 1.2	27.50 30.00	2.00	0.001	0.011 0.010	X	X
1210L900SL	-vv -Z	9.00	18.00	6	50	1.4	45.00	2.00	0.001	0.010	X	X
1812L190SL	LF-19	1.90	4.90	6	50	1.0	9.50	4.50	0.003	0.0055	X	X
1812L260SL	LF-26	2.60	6.00	6	50	1.0	13.00	2.00	0.003	0.023	X	X
1812L270SL	LF-27	2.70	6.20	6	50	1.0	13.50	2.00	0.003	0.024	X	X
1812L300SL	LF-30	3.00	7.00	6	50	1.0	8.00	5.00	0.003	0.022	X	X
1812L300/24SL	LF 30J	3.00	6.00	24	50	2.0	15.00	2.00	0.001	0.030	X	X
1812L350SL**	LF-35	3.50	8.10	6	50	1.0	8.00	5.00	0.003	0.020**	X	X
1812L370SL	LF-37	3.70	9.10	6	50	1.0	18.50	2.00	0.003	0.018	X	X
2920L500/24SL	LF 50J	5.00	10.00	24	50	2.2	25.00	2.00	0.001	0.018	X	X
2920L600/24SL	LF 60J	6.00	12.00	24	50	2.5	30.00	2.00	0.001	0.012	X	Χ
2920L700SL***	LF700	7.00	14.00	6	50	2.2	35.00	2.0	0.001	0.007	Χ	Χ
	LF 70J	7.00	14.00	24	50	2.5	35.00	2.00	0.001	0.010	X	Χ

Notes: 0805.150SL and 1206L150SL are ideal for overcurrent protection in VBUS of USB 3.0 / USB 2.0 ports.

* 1206L380SLTH has I_{bola} 2.82A for at least 15min @ 55°C. It is ideal for overcurrent protection in Li-ion / Li-Polymer battery packs of smartphones.



^{** 1812}L350SL Typical Time-To-Trip is 50A at 0.013-0.020 seconds. R1min=0.015ohm (resistance range 0.015-0.025ohm).

**** 2920L700SL is ideal for overcurrent protection in Li-ion / Li-Polymer battery packs of tablet PC.

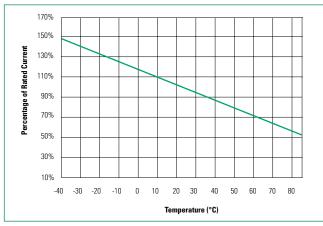
Temperature Rerating

			lem	perature Rera	aung			
			Ambien	t Operation Tem	perature			
Part	-40°C	-20°C	0°C	20°C	40°C	60°C	70°C	85°C
Number				Hold Cu	rrent (A)			
0402L010SL	0.14	0.13	0.11	0.10	0.09	0.07	0.06	0.05
0402L020SL	0.29	0.26	0.23	0.20	0.18	0.15	0.13	0.09
0402L035SL	0.50	0.45	0.40	0.35	0.31	0.26	0.22	0.16
0402L050SL	0.71	0.64	0.57	0.50	0.44	0.37	0.31	0.23
0402L075SL	1.05	0.95	0.85	0.75	0.65	0.55	0.45	0.30
0402L100SL	1.40	1.25	1.10	1.00	0.85	0.70	0.60	0.40
0603L050SL	0.81	0.71	0.62	0.50	0.41	0.30	0.24	0.16
0603L075SL	1.23	1.08	0.94	0.75	0.61	0.45	0.36	0.23
0603L100SL	1.35 2.40	1.25	1.10	1.00	0.82	0.65	0.52	0.35
0603L150SL 0603L175SL	2.50	2.10 2.25	1.80 2.00	1.50 1.75	1.25 1.55	0.95 1.30	0.80	0.50 0.80
0603L200SL-V	2.85	2.60	2.30	2.00	1.70	1.45	1.25	1.05
0603L300SL	4.70	4.15	3.60	3.00	2.50	2.00	1.65	1.20
0805L075SL	1.15	1.00	0.85	0.75	0.55	0.40	0.30	0.20
0805L110SL	1.70	1.50	1.30	1.10	0.85	0.60	0.50	0.30
0805L150SL	2.25	2.00	1.75	1.50	1.15	0.85	0.65	0.45
0805L175SL	2.60	2.30	2.00	1.75	1.30	0.95	0.75	0.50
0805L200SLTH	3.10	2.75	2.40	2.00	1.65	1.15	0.95	0.65
0805L260SLTH	3.80	3.30	2.90	2.60	2.20	1.75	1.50	1.05
0805L300SL	4.70	4.15	3.60	3.00	2.50	2.00	1.65	1.20
0805L300SLTH	3.90	3.60	3.30	3.00	2.60	2.10	1.90	1.60
0805L350SL	5.05	4.55	4.00	3.50	3.00	2.55	2.25	1.90
0805L400SL	5.80	5.20	4.60	4.00	3.40	3.00	2.60	2.20
1206L075SL	1.30	1.13	0.92	0.75	0.58	0.38	0.31	0.14
1206L110SL	1.90	1.65	1.35	1.10	0.85	0.55	0.45	0.20
1206L150SL	2.65	2.30	1.90	1.50	1.15	0.70	0.50	0.25
1206L110/12SL	1.65	1.45	1.30	1.10	0.85	0.65	0.55	0.30
1206L150/12SL	2.25	2.00	1.80	1.50	1.20	0.90	0.75	0.55
1206L175SL	2.60	2.45	2.00	1.75	1.35	1.05	0.90	0.60
1206L200SL	2.95	2.80	2.30	2.00	1.55	1.20	1.00	0.70
1206L260SLTH	4.05	3.60	3.12	2.60	2.15	1.70	1.40	1.00
1206L260/12SL	3.70	3.40	3.00	2.60	2.20	1.75	1.55	1.05
1206L300SLTH	4.70	4.15	3.60	3.00	2.50	2.00	1.65	1.20
1206L300/12SL	4.25	3.90	3.45	3.00	2.50	2.00	1.75	1.20
1206L350SLTH	5.50	4.85	4.15	3.50	2.85	2.25	1.90	1.40
1206L350/12SL	5.25	4.65	4.20	3.50	2.80	2.10	1.75	1.25
1206L380SLTH	5.59	5.05	4.48	3.80	3.23	2.70	2.17	1.98
1206L400SL	5.75	5.25	4.65	4.00	3.40	2.75	2.40	1.65
1206L400/12SL	6.00	5.30	4.80	4.00	3.20	2.40	2.00	1.40
1206L450SL	6.50	5.95	5.25	4.50	3.85	3.10	2.70	1.90
1206L450/12SL	6.75	5.95	5.40	4.50	3.60	2.70	2.25	1.60
1206L500SL-V 1206L500/12SL	7.20 7.20	6.50 6.60	5.85 5.80	5.00 5.00	4.45 4.25	3.75 3.40	3.40 3.00	2.85 2.10
1206L600SL	8.65	7.80	7.00	6.00	5.30	4.50	4.05	3.40
1210L175SL	2.65	2.30	2.05	1.75	1.40	1.05	0.90	0.60
1210L200SL	3.30	2.80	2.40	2.00	1.90	1.60	1.40	1.00
1210L260SL	4.20	3.75	3.30	2.60	2.20	1.70	1.45	1.05
1210L300SL	4.70	4.15	3.60	3.00	2.50	1.90	1.70	1.20
1210L350SL	5.00	4.60	4.05	3.50	2.80	2.00	1.75	1.20
1210L380SL	5.70	5.10	4.40	3.80	3.20	2.25	1.80	1.30
1210L400SL	5.70	5.25	4.60	4.00	3.20	2.25	1.90	1.30
1210L450SL	7.15	6.25	5.30	4.50	3.45	2.50	2.00	0.85
1210L450/12SL	6.45	5.85	5.15	4.50	3.95	3.30	3.00	2.45
1210L500SL	7.20	6.50	5.85	5.00	4.45	3.75	3.40	2.85
1210L500/12SL	7.20	6.50	5.75	5.00	4.40	3.75	3.35	2.75
1210L550SL	8.00	7.15	6.35	5.50	4.90	4.10	3.70	3.05
1210L600SL	8.65	7.80	7.00	6.00	5.30	4.50	4.05	3.40
1210L900SL	13.05	11.70	10.40	9.00	8.00	6.75	6.05	5.00
1812L190SL	2.91	2.57	2.20	1.90	1.78	1.50	1.40	1.05
1812L260SL	4.00	3.65	2.90	2.60	1.90	1.60	1.20	0.85
1812L270SL	3.86	3.55	3.12	2.70	2.16	1.54	1.35	0.93
1812L300SL	4.35	3.90	3.45	3.00	2.65	2.25	2.00	1.65
1812L300/24SL	4.95	4.35	3.75	3.00	2.45	1.85	1.55	1.05
1812L350SL	5.40	4.95	3.90	3.50	2.60	2.15	1.65	1.20
1812L370SL	5.75	5.15	4.35	3.70	2.85	2.30	1.90	1.50
2920L500/24SL	8.20	7.25	6.25	5.00	4.25	3.25	2.80	2.05
2920L600/24SL	10.15	8.90	7.65	6.00	5.15	3.90	3.25	2.35
2920L700SL	10.00	9.20	8.10	7.00	5.60	4.00	3.50	2.40
2920L700/24SL	11.52	10.08	8.65	7.00	5.78	4.35	3.63	2.55

Notes: The temperature rerating data is for reference only. Please contact Littelfuse technical support for detail temperature rerating information.



Temperature Rerating Curve



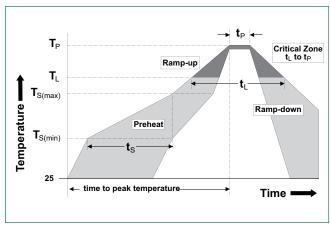
Environmental Specifications

Operating Temperature	-40°C to +85°C
Maximum Device Surface Temperature in Tripped State	125°C
Passive Aging	+85°C, 1000 hours -/+10% typical resistance change
Humidity Aging	+85°C, 85% R.H.,100 hours -/+15% typical resistance change
Thermal Shock	MIL-STD-202, Method 107 +85°C/-40°C 20 times -30% typical resistance change
Solvent Resistance	MIL-STD-202, Method 215 No change
Vibration	MIL-STD-883, Method 2007, Condition A No change
Moisture Sensitivity Level	Level 1, J-STD-020

Note: MSL level 2a for 2920 size product

Soldering Parameters

Profile Feature	Pb-Free Assembly							
Average Ramp-Up	3°C/second max							
Pre Heat:	Temperature Min (T _{s(min)})	150°C						
	Temperature Max (T _{s(max)})	200°C						
	Time (Min to Max) (t _s)	60 - 180 secs						
Time Maintained	Temperature (T _L)	217°C						
Above:	Temperature (t _L)	60 - 150 seconds						
Peak / Classification	n Temperature (T _P)	260 ^{+0/-5} °C						
Time within 5°C of	actual peak Temperature (tp)	20 - 40 seconds						
Ramp-down Rate	Ramp-down Rate							
Time 25°C to peak	Temperature (T _P)	8 minutes Max.						



- All temperature refer to topside of the package, measured on the package body surface
- If reflow temperature exceeds the recommended profile, devices may not meet the performance requirements
- Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead
- Recommended maximum paste thickness is 0.25mm (0.010 inch)
- Devices can be cleaned using standard industry methods and solvents
- Devices can be reworked using the standard industry practices

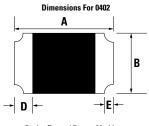
Physical Specifications

Terminal Material Lead Solderability

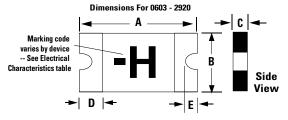
(Solder Material: Matte Tin (Sn)) ANSI/J-STD-002, Category 3.

Solder-Plated Copper Meets EIA Specification RS186-9E,

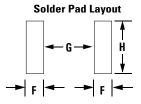
Dimensions



Device Top and Bottom Marking and Dimensions are Similar



Device Top and Bottom Marking and Dimensions are Similar



Dimensions

	Dimensions Describe Dimension									Calday Day											
	Device Dimens A B C						ensio						Solder Pad F G								
Part Number	inch mm inch mm			inch mm inch mr				mm inch mm							•	Н					
	Min Max I															ln	mm	In	mm	ln	mm
0402L010SL	0.03 0.05 0											-	0.02	-		0.02	0.60	0.02	0.40	0.03	0.70
0402L020SL	0.03 0.05 0).85 1.15	0.01 0.0	3 0.35 0.65	0.01	0.02 0.20	0.60	0.004	0.02	0.10	0.45	-	0.02	-	0.40	0.02	0.60	0.02	0.40	0.03	0.70
0402L035SL	0.03 0.05 0											-	0.02	-			0.60				
0402L050SL	0.03 0.05 0											-	0.02	-			0.60				
0402L075SL	0.03 0.05 0											-	0.02	-			0.60				
0402L100SL	0.03 0.05 0											-	0.02	-			0.60				
0603L050SL 0603L075SL	0.06 0.07								0.02			-	0.02	-			1.00				
0603L100SL	0.06 0.07								0.02			-	0.02	-			1.00				
0603L150SL	0.06 0.07 1								0.02			-	0.02	-			1.00				
0603L175SL	0.06 0.07 1	1.40 1.80	0.02 0.0	4 0.60 1.00	0.02	0.04 0.40	1.00	0.01	0.02	0.15	0.50	-	0.02	-	0.40	0.04	1.00	0.03	0.80	0.04	1.00
0603L200SL-V	0.06 0.07 1								0.02			-	0.02	-			1.00				
0603L300SL	0.06 0.07 1								0.02			-	0.02	-			1.00				
0805L075SL	0.08 0.09 2							0.01				0.002									
0805L110SL 0805L150SL	0.08 0.09 2 0.08 0.09 2							0.01				0.002									
0805L175SL	0.08 0.09 2											0.002									
0805L200SLTH	0.08 0.09 2											0.002									
0805L260SLTH	0.08 0.09 2											0.002									
0805L300SL	0.08 0.09 2							0.01				0.002									
0805L300SLTH	0.08 0.09 2											0.002									
0805L350SL	0.08 0.09 2											0.002									
0805L400SL 1206L075SL	0.08 0.09 2 0.12 0.13 3							0.01				0.002									
1206L075SL	0.12 0.13 3											0.002									
1206L150SL	0.12 0.13 3							0.01				0.002									
1206L110/12SL	0.12 0.13 3											0.002									
1206L150/12SL	0.12 0.13 3	3.00 3.40	0.06 0.0	7 1.50 1.80	0.02	0.03 0.50	0.85	0.01	0.03	0.25	0.75	0.002	0.02	0.05	0.45	0.04	1.00	0.07	1.80	0.07	1.80
1206L175SL	0.12 0.13 3											0.002									
1206L200SL	0.12 0.13 3							0.01				0.002									
1206L260SLTH	0.12 0.13 3											0.002									
1206L260/12SL 1206L300SLTH	0.12 0.13 3 0.12 0.13 3							0.01				0.002									
1206L3003L111	0.12 0.13 3											0.002									
1206L350SLTH	0.12 0.13 3											0.002									
1206L350/12SL	0.12 0.13 3	3.00 3.40	0.06 0.0	7 1.50 1.80	0.03	0.06 0.80	1.40	0.01	0.03	0.25	0.75	0.002	0.02	0.05	0.45	0.04	1.00	0.07	1.80	0.07	1.80
1206L380SLTH	0.12 0.13 3											0.002									
1206L400SL	0.12 0.13 3							0.01				0.002									
1206L400/12SL	0.12 0.13 3											0.002									
1206L450SL 1206L450/12SL	0.12 0.13 3 0.12 0.13 3											0.002									
1206L500SL-V	0.12 0.13 3							0.01				0.002									
1206L500/12SL	0.12 0.13 3											0.002									
1206L600SL	0.12 0.13 3	3.00 3.40	0.06 0.0	7 1.50 1.80	0.02	0.05 0.60	1.20	0.01	0.03	0.25	0.75	0.002	0.02	0.05	0.45	0.04	1.00	0.07	1.80	0.07	1.80
1210L175SL	0.12 0.14 3											0.004									
1210L200SL	0.12 0.14 3											0.004									
1210L260SL	0.12 0.14 3											0.004									
1210L300SL 1210L350SL	0.12 0.14 3 0.12 0.14 3																				
1210L380SL	0.12 0.14 3											0.004									
1210L400SL	0.12 0.14 3											0.004									
1210L450SL	0.12 0.14 3	3.00 3.43	0.09 0.1	1 2.35 2.80	0.02	0.05 0.60	1.20					0.004									
1210L450/12SL	0.12 0.14 3	3.00 3.43	0.09 0.1	1 2.35 2.80	0.03	0.06 0.80	1.40	0.01	0.03	0.25	0.75	0.004	0.02	0.10	0.50	0.04	1.00	80.0	2.00	0.10	2.50
1210L500SL	0.12 0.14 3											0.004									
1210L500/12SL	0.12 0.14 3											0.004									
1210L550SL	0.12 0.14 3											0.004									
1210L600SL 1210L900SL	0.12 0.14 3 0.12 0.14 3											0.004									
1812L190SL	0.12 0.14 3																				
1812L260SL	0.17 0.19 4											0.01									
1812L270SL	0.17 0.19 4							0.01													
1812L300SL	0.17 0.19 4											0.01									
1812L300/24SL	0.17 0.19 4																				
1812L350SL	0.17 0.19 4											0.01									
1812L370SL 2920L500/24SL	0.17 0.19 4 0.26 0.31 6											0.01									
2920L600/24SL	0.26 0.31 6																				
2920L700SL	0.26 0.31 6											0.01									
2920L700/24SL	0.26 0.31 6	5.73 7.98	0.19 0.2	1 4.80 5.44	0.06	0.10 1.50	2.50														

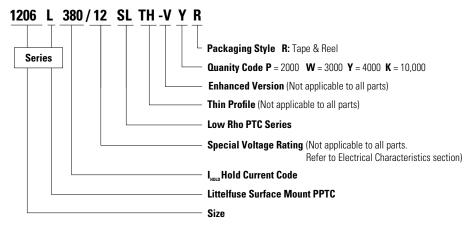


Packaging

Part Number	Ordering Number	I _{hold} (A)	I _{hold} Code	Packaging Option	Quantity	Quantity & Packaging Codes
0402L010SL	0402L010SLKR	0.10	010		10,000	KR
0402L020SL	0402L020SLKR	0.20	020		10,000	KR
0402L035SL	0402L035SLKR	0.35	035		10,000	KR
0402L050SL	0402L050SLKR	0.50	050		10,000	KR
0402L075SL	0402L075SLKR	0.75	075		10,000	KR
0402L100SL	0402L100SLKR	1.00	100		10,000	KR
0603L050SL	0603L050SLYR	0.50	050		4,000	YR
0603L0303L	0603L075SLYR	0.75	075		4,000	YR
0603L0733L	0603L100SLYR	1.00	100		4,000	YR
0603L150SL	0603L150SLYR	1.50	150		4,000	YR
0603L175SL	0603L175SLYR	1.75	175		4,000	YR
						YR
0603L200SL-V	0603L200SL-VYR	2.00	200		4,000	YR
0603L300SL	0603L300SLYR	3.00	300		4,000	
0805L075SL	0805L075SLYR	0.75	075		4,000	YR
0805L110SL	0805L110SLYR	1.10	110		4,000	YR
0805L150SL	0805L150SLYR	1.50	150		4,000	YR
0805L175SL	0805L175SLYR	1.75	175		4,000	YR
0805L200SLTH	0805L200SLTHYR	2.00	200		4,000	YR
0805L260SLTH	0805L260SLTHYR	2.60	260		4,000	YR
0805L300SL	0805L300SLWR	3.00	300		3,000	WR
0805L300SLTH	0805L300SLTHYR	3.00	300		4,000	YR
0805L350SL	0805L350SLYR	3.50	350		4,000	YR
0805L400SL	0805L400SLWR	4.00	400		3000	WR
1206L075SL	1206L075SLYR	0.75	075		4,000	YR
1206L110SL	1206L110SLYR	1.10	110		4,000	YR
1206L150SL	1206L150SLYR	1.50	150		4,000	YR
1206L110/12SL	1206L110/12SLYR	1.10	110		4,000	YR
1206L150/12SL	1206L150/12SLYR	1.50	150		4,000	YR
1206L175SL	1206L175SLYR	1.75	175		4,000	YR
1206L200SL	1206L200SLYR	2.00	200		4,000	YR
1206L260SLTH	1206L260SLTHYR	2.60	260		4,000	YR
1206L260/12SL	1206L260/12SLYR	2.60	260		4,000	YR
1206L300SLTH	1206L300SLTHYR	3.00	300		4,000	YR
1206L300/12SL	1206L300/12SLYR	3.00	300	T 0.D	4,000	YR
1206L350SLTH	1206L350SLTHYR	3.50	350	Tape & Reel	4,000	YR
	1206L350/12SLWR	3.50	350		3,000	WR
1206L380SLTH*	1206L380SLTHYR	2.82*	380		4,000	YR
1206L400SL	1206L400SLWR	4.00	400		3,000	WR
1206L400/12SL	1206L400/12SLWR	4.00	400		3,000	WR
1206L450SL	1206L450SLWR	4.50	450		3,000	WR
1206L450/12SL	1206L450/12SLWR	4.50	450		3,000	WR
1206L500SL-V	1206L500SL-VWR	5.00	500		3,000	WR
1206L500/12SL	1206L500/12SLPR	5.00	500		2,000	PR
1206L600SL	1206L600SLWR	6.00	600		3,000	WR
1210L175SL	1210L175SLYR	1.75	175		4,000	YR
1210L200SL	1210L200SLYR	2.00	200		4,000	YR
1210L260SL	1210L260SLYR	2.60	260		4,000	YR
1210L300SL	1210L300SLWR	3.00	300		3,000	WR
1210L350SL	1210L350SLWR	3.50	350		3,000	WR
1210L380SL	1210L380SLYR	3.80	380		4,000	YR
1210L300SL	1210L400SLWR	4.00	400		3,000	WR
1210L4003L 1210L450SL	1210L450SLWR	4.50	450		3,000	WR
	1210L450/12SLWR	4.50	450		3,000	WR
1210L500SL	1210L500SLWR	5.00	500		3,000	WR
	1210L500/12SLWR	5.00	500		3,000	WR
1210L550SL	1210L550SLWR	5.50	550		3,000	WR
1210L600SL	1210L600SLWR	6.00	600		3,000	WR
1210L900SL	1210L900SLPR	9.00	900		2,000	PR
1812L190SL	1812L190SLPR	1.90	190		2,000	PR
1812L260SL	1812L260SLPR	2.60	260		2,000	PR
1812L270SL	1812L270SLPR	2.70	270		2,000	PR
1812L300SL	1812L300SLPR	3.00	300		2,000	PR
1812L300/24SL	1812L300/24SLER	3.00	300		2,500	ER
1812L350SL	1812L350SLPR	3.50	350		2,000	PR
1812L370SL	1812L370SLPR	3.70	370		2,000	PR
	2920L500/24SLDR	5.00	500		1,500	DR
	2920L600/24SLER	6.00	600		2,500	ER
2920L000/243L 2920L700SL	2920L000/243LER 2920L700SLPR	7.00	700		2,000	PR
2920L700/24SL	2920L700/24SLER	7.00 °C.	700		2,500	ER



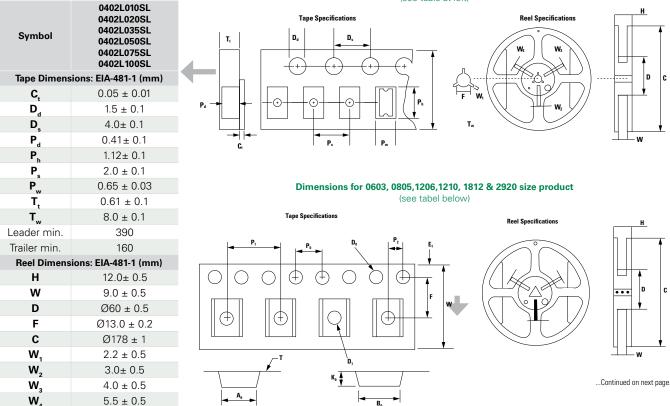
Part Ordering Number System



Tape & Reel Specifications

Dimensions for 0402 size product

(see table at left)





Dimensions for 0603, 0805,1206,1210, 1812 & 2920 size product

(see tabel below)

Symbol	0603L050SL 0603L075SL 0603L100SL	0603L150SL 0603L175SL 0603L200SL-V 0603L300SL	0805L075SL 0805L110SL 0805L150SL 0805L175SL 0805L200SLTH 0805L260SLTH 0805L300SLTH	0805L350SL	0805L300SL 0805L400SL	1206L075SL 1206L110SL 1206L150SL 1206L110/12SL 1206L150/12SL 1206L175SL 1206L200SL	1206L260SLTH 1206L260/12SL 1206L300SLTH 1206L300/12SL 1206L350SLTH 1206L380SLTH	1206L350/12SL 1206L400SL 1206L400/12SL 1206L450SL 1206L450/12SL 1206L500SL-V 1206L600SL	1206L500/12SL	1210L175SL 1210L200SL 1210L260SL 1210L300SL 1210L380SL
				Тар	e Dimensions:	EIA-481-1 (mm)				
W	8.00 ± 0.30	8.00 ± 0.30	8.00 ± 0.10	8.00 ± 0.30	8.00 ± 0.30	8.20 +0.	10/-0.30	8.15 +0.15/-0.30	8.20 +0.10/-0.30	8.00 ± 0.30
F	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05	3.50 ±	± 0.05	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05
E,	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ±	± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10
D _o	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05	1.55 ±	0.05	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05
D ₁	0.50 ± 0.10	0.50 ± 0.10	1.00 (Min.)	1.00 ± 0.10	1.00 ± 0.10	1.00 ±	± 0.10	1.00 ± 0.10	1.00 ± 0.10	1.00 (Min.)
P _o	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.08	4.00 ± 0.10	4.00 ± 0.10	4.00 ±	± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10
P ₁	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ±	± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10
P ₂	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05	2.00 ±	± 0.05	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05
\mathbf{A}_{0}	1.10 ± 0.10	1.10 ± 0.10	1.60 ± 0.10	1.65 ± 0.10	1.65 ± 0.10	1.95 ±	± 0.10	1.92 ± 0.10	1.95 ± 0.10	2.82 ± 0.10
B _o	1.92 ± 0.10	1.92 ± 0.10	2.30 ± 0.10	2.35 ± 0.10	2.35 ± 0.10	3.65 ±	± 0.10	3.65 ± 0.10	3.65 ± 0.10	3.46 ± 0.10
Т	0.20 ± 0.10	0.20 ± 0.10	0.25 ± 0.10	0.20 ± 0.10	0.25 ± 0.10	0.20 ±	± 0.10	0.25 ± 0.10	0.25 ± 0.10	0.25 ± 0.10
K _o	0.72 ± 0.10	0.96 ± 0.10	0.90 ± 0.10	1.05 ± 0.10	1.50 ± 0.10	0.87 ±	± 0.10	1.30 ± 0.10	1.70 ± 0.10	1.00 ± 0.10
Leader min.						390				
Trailer min.						160				
				Ree	l Dimensions:	EIA-481-1 (mm)				
Н						11.0 ± 0.5				
w						9.0 ± 1.5				
С						Ø178 ± 1.0				
D						Ø60.2 ± 0.5				

Symbol	1210L350SL 1210L400SL 1210L450SL 1210L450/12SL 1210L500SL 1210L500/12SL 1210L550SL 1210L50SL	1210L900SL	1812L190SL 1812L260SL 1812L270SL 1812L300SL 1812L350SL 1812L370SL	1812L300/24SL	2920L500/24SL	2920L700SL	2920L600/24SL 2920L700/24SL
			Tape Dimensions	s: EIA-481-1 (mm)			
w	8.00 ± 0.30	8.00 ± 0.30	12.00 ± 0.30	12.00 ± 0.30	16.00 ± 0.30	16.00 ± 0.30	16.00 ± 0.30
F	3.50 ± 0.05	3.50 ± 0.05	5.50 ± 0.05	5.50 ± 0.05	7.50 ± 0.10	7.50 ± 0.10	7.50 ± 0.10
E,	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10
D _o	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05	1.50 +0.10/-0	1.55 ± 0.05	1.55 ± 0.05	1.50 +0.10/-0
D ₁	1.00 (Min.)	1.00 (Min.)	1.55 (Min.)	1.50 +0.10/-0	1.50 ± 0.10	1.50 ± 0.10	1.50 (Min.)
P _o	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	4.00 ± 0.10
P ₁	4.00 ± 0.10	4.00 ± 0.10	8.00 ± 0.10	8.00 ± 0.10	8.00 ± 0.10	8.00 ± 0.10	8.00 ± 0.10
P ₂	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.10	2.00 ± 0.10	2.00 ± 0.10
A_{0}	2.82 ± 0.10	2.80 ± 0.10	3.58 ± 0.10	3.55 ± 0.10	5.74 ± 0.10	5.74 ± 0.10	5.60 ± 0.10
B _o	3.50 ± 0.10	3.50 ± 0.10	4.93 ± 0.10	4.88 ± 0.10	8.02 ± 0.10	8.02 ± 0.10	7.95 ± 0.10
Т	0.20 ± 0.10	0.25 ± 0.10	0.25 ± 0.05	0.30 ± 0.05	0.30 ± 0.10	0.30 ± 0.10	0.30 ± 0.05
K _o	1.30 ± 0.10	1.60 ± 0.10	0.87 ± 0.06	2.45 ± 0.10	1.30 ± 0.10	0.91 ± 0.10	2.55 ± 0.10
Leader min.				390			
Trailer min.				160			
			Reel Dimensions	:: EIA-481-1 (mm)			
Н	11.0 =	± 0.5	16.0 ± 0.5	17.4 ± 1.0	19.5	± 1.0	21.4 ± 1.0
W	9.0 ±	± 1.5	13.2 ± 1.5	13.4 ± 1.0	17 ±	: 0.2	17.4 ± 1.0
С	Ø178	± 1.0	Ø178 ± 1.0	Ø330 ± 1.0	Ø180	± 3.0	Ø330 ± 1.0
D	Ø60.2	± 0.5	Ø60.2 ± 0.5	Ø99 ± 0.5	Ø60	± 0.5	Ø99 ± 0.5

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Littelfuse:

1210L350SLWR 1812L350SLPR 1210L380SLYR 1206L200SLYR 1206L110/12SLYR 1206L400SLWR

1206L150/12SLYR 1206L150SLYR 1210L200SLYR 0805L110SLYR 1206L110SLYR 0805L075SLYR

1206L075SLYR 1206L260SLTHYR 1206L380SLTHYR 0603L150SLYR 0805L150SLYR 1210L400SLWR

0603L050SLYR 0603L075SLYR 0603L100SLYR 0402L010SLKR 0402L020SLKR 0402L035SLKR 0402L050SLKR

0603L175SLYR 0805L175SLYR 0805L200SLTHYR 0805L260SLTHYR 0805L300SLWR 1206L175SLYR

1206L300SLTHYR 1206L350SLTHYR 1206L450SLWR 1210L450SLWR 1812L260SLPR 1812L300SLPR

1812L370SLPR 2920L700SLPR 1210L300SLWR 1210L500SLWR 1206L500SLWR 0603L300/9SLYR

1206L500/12SLPR 1206L600SLWR 1210L500/12SLWR 1210L550SLWR 1210L600SLWR 1210L900SLPR

1206L400/12SLWR 1206L260/12SLYR 1206L300/12SLYR 1812L300/24SLER 2920L500/24SLDR

2920L600/24SLER 2920L700/24SLER 1206L500SLYR 0805L400SLWR