



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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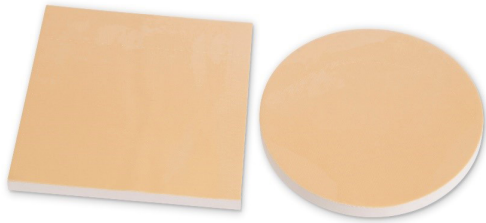
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# L37-3F Thermal Conductive Pad

Version 1.180418



## Thermal Conductive Pad

L37-3F is an ultra thin silicone based thermal interface pad which offers a good combination of high dielectric breakdown voltage, compliance and low thermal impedance. It contains a fibreglass mesh for enhanced ease of manufacture and is available in various formats such as standard sheets, log-rolls and custom die cut parts. L37-3F is available in a range of thicknesses and with one or two side thermally conductive adhesive pre-applied.

## Features

- Made of silicone, thermal conductive particles, fibreglass
- Low elongation
- Electrical insulation
- Easy to assemble

## Applications

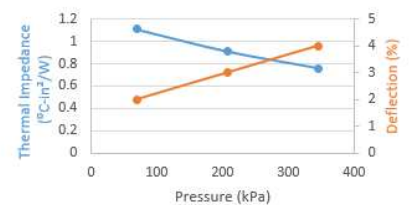
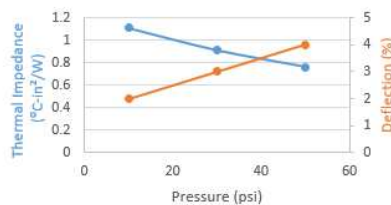
Electronic components: IC, CPU, MOS  
LED, M/B, P/S, Heat Sink  
LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.  
DDR II Module, DVD Applications, Hand-set applications, etc.

## Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	L37-3F	Unit	Tolerance	Test Method
Colour	Yellow	-	-	Visual
Thickness (Available thickness range)	0.25/0.3/0.45	mm	-	ASTM D374
	0.0098/0.0118/0.0177	inch	-	ASTM D374
Thermal Conductivity	1.4	W/mK	±0.14	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	4	kV/mm	±0.4	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2	g/cm <sup>3</sup>	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10 <sup>13</sup>	Ohm-cm	-	ASTM D257
Elongation	5	%	±13	ASTM D412
Tensile Strength	150	Kgf/cm <sup>2</sup>	±2	ASTM D412
Hardness	90	Shore A	±3	ASTM D2240

## Thermal Impedance vs Pressure vs Deflection



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# L37-3F Thermal Conductive Pad

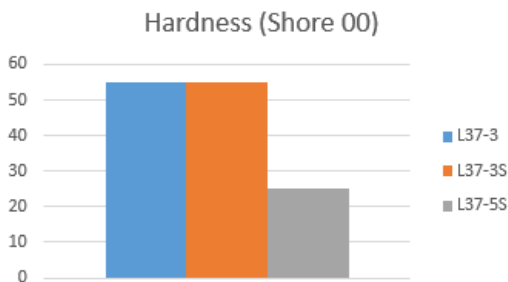
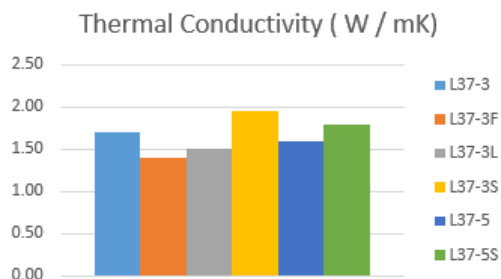
## Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	0.25	0.30	0.45
	100x100		5.00	6.00
150x150		11.25	13.50	20.25
300x300		45.00	54.00	81.00
320x320		51.20	61.44	92.16

\* All measurements in weights are in gr

\*\* All sizes are in mm

## Data



Die-Cut Thickness Tolerances	Thickness (mm)	Tolerance (mm)
	0.3	±0.03
	0.5	±0.05
	0.8	±0.08
	1.0	±0.1
	1.2	±0.12
	1.5	±0.15
	2.0	±0.2
	2.5 - 3.5	±0.25
	4.0 - 4.5	±0.3
	5.0	±0.35
	6.0 - 8.0	±0.4
9.0	±0.45	
10.0	±0.5	
>10.0	±0.5	

\* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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