



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





L37-5 Thermal Conductive Pad

Version 1.280318

Thermal Conductive Pad

L37-5 is a silicone gap fillers which is designed to offer a combination of low thermal impedance, good compressibility and breakdown voltage for a wide range of applications. L37-5 can also be provided with one or two sided thermally conductive adhesive for ease of manufacture.

Features

Very good thermal conductivity
Durable
Upto thickness 20mm
Electrical insulation

Applications

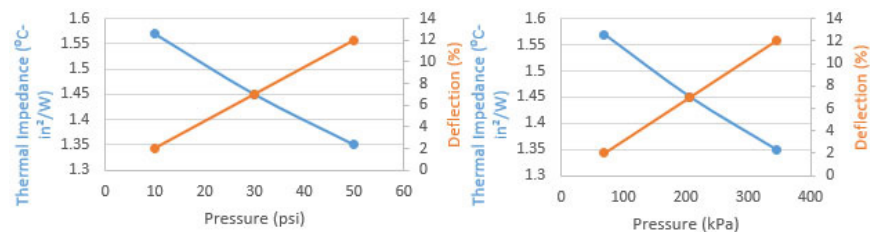
Electronic components: IC, CPU, MOS
LED, M/B, P/S, Heat Sink
LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	L37-5	Unit	Tolerance	Test Method
Colour	Grey	-	-	Visual
Thickness (Available thickness range)	0.3 – 20	mm	-	ASTM D374
	0.0118 - 0.787	Inch	-	ASTM D374
Thermal Conductivity	1.6	W/mK	±0.16	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	>10	kV/mm	±1	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.38	g/cm ³	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10 ¹²	Ohm-cm	-	ASTM D257
Elongation	300	%	±0.2	ASTM D412
Tensile Strength	12	Kgf/cm ²	±5	ASTM D412
Hardness	25	Shore A	±2.5	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



T-Global Technology Limited
1 & 2 Cosford Business Park, Central Park,
Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510
Email: sales@tglobaltechnology.com
Web: www.tglobaltechnology.com
Skype: tglobal.technology
VAT #: GB 116 662 714



L37-5 Thermal Conductive Pad

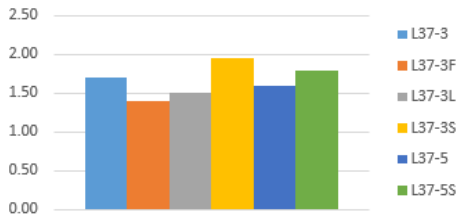
Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	Weights (g)										
		0.30	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
100x100	100x100	7.14	11.90	19.04	23.80	35.70	47.60	59.50	71.40	83.30	95.20	107.10
	150x150	16.07	26.78	42.84	53.55	80.33	107.10	133.88	160.65	187.43	214.20	240.98
	300x300	64.26	107.10	171.36	214.20	321.30	428.40	535.50	642.60	749.70	856.80	963.90
	320x320	73.11	121.86	194.97	243.71	365.57	487.42	609.28	731.14	852.99	974.85	1,096.70

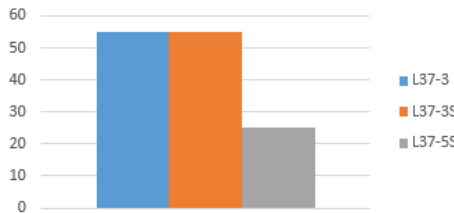
Size	Thickness (mm)	Weights (g)										
		5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
100x100	100x100	119.00	130.90	142.80	154.70	166.60	178.50	190.40	202.30	214.20	226.10	238.00
	150x150	267.75	294.53	321.30	348.08	374.85	401.63	428.40	455.18	481.95	508.73	535.50
	300x300	1,071.00	1,178.10	1,285.20	1,392.30	1,499.40	1,606.50	1,713.60	1,820.70	1,927.80	2,034.90	2,142.00
	320x320	1,218.56	1,340.42	1,462.27	1,584.13	1,705.98	1,827.84	1,949.70	2,071.55	2,193.41	2,315.26	2,437.12

Data

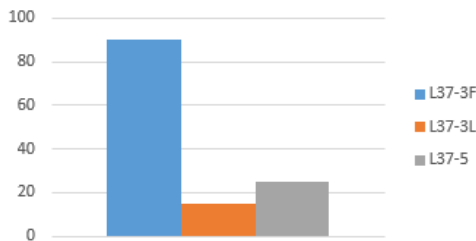
Thermal Conductivity (W / mK)



Hardness (Shore 00)



Hardness (Shore A)



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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