



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

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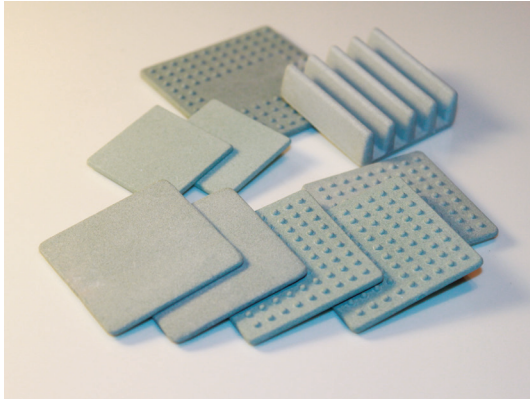
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# XL-25 with Li-98

## Ceramic Heat Spreader with Thermal Tape



### XL-25 Features

- Large contact area
- Low weight
- High breakdown voltage
- Excellent heat spreader
- Custom shapes possible

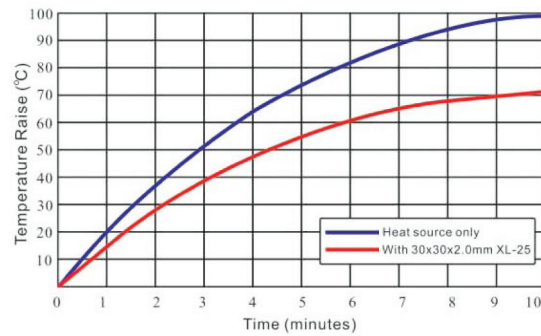
### Applications

LED / Notebook PC / M/B / Power Transistor / Power Module / CPU / Chip IC

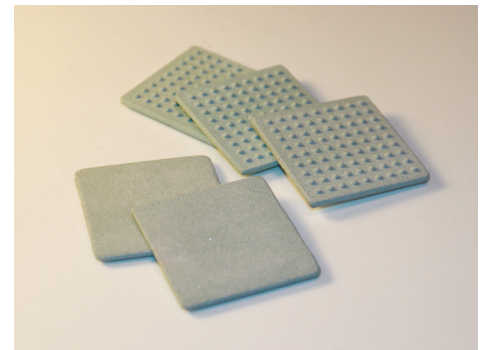
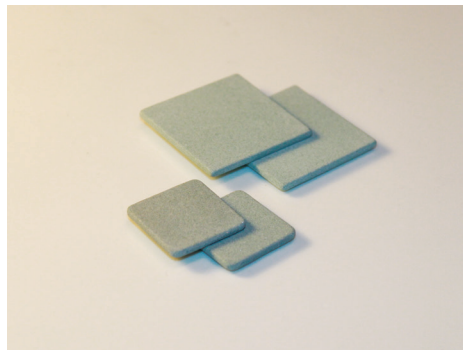
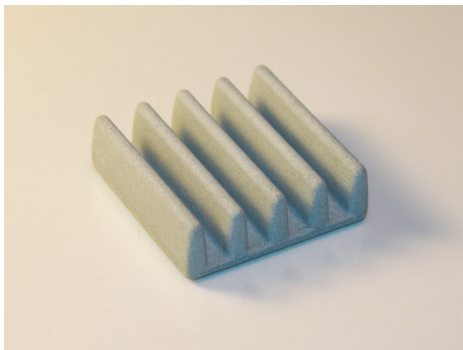
### Sizes (mm)

XL-25 30 x 30 x t2.0mm +Li98C  
28 x 28 x t0.15mm (With pull tab 5.0mm)

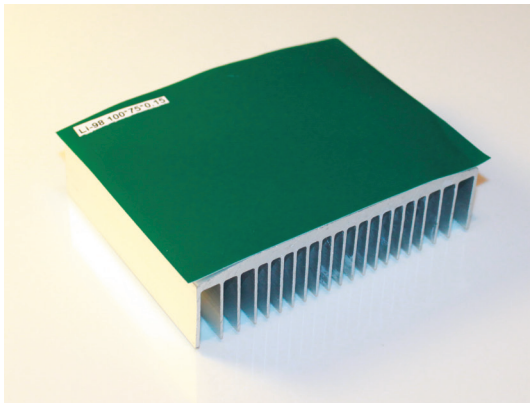
XL-25 20x20xt2.0mm +Li98C  
18 x 18 x t0.15mm (With pull tab 5.0mm)



Used examples: Heat sources with XL-25



Property	XL-25	Unit	Test Method
Colour	Grey	-	Visual
Thermal Conductivity	6.79	W/m.k	-
Dielectric Breakdown Voltage	>500	Voltage	ASTM D149
Specific Gravity	1.89	g/cm <sup>3</sup>	CNS 619
Surface Resistance	>10 <sup>9</sup>	Ohm	ASTMD 257
Flexural Strength	47.5	Kgf/cm <sup>2</sup>	CNS 12701
Porosity	30	%	CNS 619
Working Temperature	>500	°C	-
Linear Temperature Expansion Coefficient	4.13	10/06/11	RT-300 °C
Main Composition	SiC / Al <sub>2</sub> O <sub>3</sub> / SiO <sub>2</sub>	-	-
Hardness	5~6	Moh's	DIN EN101-1992



## Li-98 Features

Good adhesion  
 Very good thermal conductivity  
 Highly compressible  
 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

Property	Li-98		Li-98C	Li98CN	Unit	Test Method
Thickness	0.15	0.25	0.2	0.18		ASTM D374
Colour	White	White	White	White		Visual
Reinforcement carrier	Fibreglass mesh					
Density	1.85	1.85	1.9	1.8	g/cm <sup>3</sup>	ASTM D792
Tensile strength	200	400	200	50	psi	ASTM D412
Glass transition temperature	-30	-30	-27	-30	°C	
Short time use temperature (30sec)	200	200	200	200	°C	
Continuous working temperature	-30 to 120	-30 to 120	-30 to 120	-30 to 120	°C	
Thermal conductivity	0.95	0.95	1.8	2	W/mK	ASTM D5470
Thermal impedance @ <1psi	1.0	1.8	0.7	0.6	C in 2/W	ASTM D5470
Thermal impedance @ 50psi	0.9	1.5	0.5	0.3	C in 2/W	ASTM D5470
Initial tack	11	10	14	15	cm	PSTC-6
Lap shear strength	61	61	65	55	N/cm <sup>2</sup>	ASTM D1002
Die shear strength @ 25 °C	120	120	118	100	N/cm <sup>2</sup>	-
Die shear strength @ 80 °C	69	69	68	55	N/cm <sup>2</sup>	-
Holding power 1000g @ 25 °C using 1 in <sup>2</sup>	>10000	>10000	>10000	>10000	min	PSTC-7
Holding power 1000g @ 80 °C using 1 in <sup>2</sup>	>10000	>10000	>10000	>10000	min	PSTC-7
180° peeling strength (aluminium)	4	5	4	3	N/cm	ASTM D3330
Dielectric breakdown voltage (Vac)	>2	>3	>3	>5	kV	ASTM D149
Dielectric breakdown voltage (Vdc)	>3	>4	>4	>6	kV	ASTM D149

