



TG-CJ-Li-30.5-30.5-6-PF

Ceramic Heatsink

Version 1.220917

Ceramic Heatsink

T-Global's range of ceramic heatsinks have been designed from a proprietary blend of engineering ceramics to offer superior thermal management for the most demanding of applications. Compared to aluminium, ceramics confer additional benefits such as electrically isolating, resistant to corrosion, low weight and does not act like an antenna. The addition of a pre-applied thermal tape further reduces the manufacturing complexity when compared to aluminum heatsinks.

Features

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

Applications

LED, M/B, P/S, LCD, TV, Notebook, PC, PC Telecom Device, Wireless Hub, Power transistor, Power module, CPU, Chip IC

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

	Technical Ceramic		
Property Property		Unit	
	Density	g/cm³	3.66
	Water Absorption	%	0.002
Physical Property	Sinter Temperature	°C	1700
	Acid Resistance	mg/cm³	≦0.2
	Alkali	mg/cm³	≦0.2
	Mohs Hardness	HV	9
Mechanical Property	Bend Strength	Мра	≧ 610
rroperty	Compression Intensity	Мра	≧ 620
	Maximum Working Temperature	°C	1400
Thermal Property	Thermal Expansion Coefficient	(1x10 ⁻⁶) mm/°C	7.8~8.3
Thermat Property	Thermal Shock Resistance	T (°C)	200
	Thermal Conductivity	W/m.k.	40~51
	Resisting Rate of Volume	Ω°C	1016
Electrical Property	DC Breakdown Strength	KV/mm	15.2~16.7
	Insulation Breakdown Intensity	KV/mm	18
	Dielectric Constant (1MHz)	(E)	10
	Dielectric Dissipation	(tg o)	0.4*10 ⁻³

Part Number Information TG-CJ-Li-30.5-30.5-6-PF

Product	Length	Width	Depth	Adhesive
TG-CJ-Li-30.5-30.5-6-PF	30.5	30.5	6	1 Sided Tape

^{*} All measurements in mm

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Li98 Thermal Tape

Version 1.200917

Thermal Tape

Li98 thermal tapes are double-sided thermal interface tapes and provide exceptional bonding properties between electronic components and heat sinks, eliminating the need for mechanical fasteners. Li98 can be offered in various formats such as sheets, rolls and die cut parts depending on the applications and have proven reliability under various mechanical, thermal, and environmental stresses.

Features

Good adhesion (Acrylic PSA) Great reliability Cost effective with great performance 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.

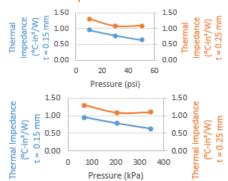
Properties

REACH Compliant

✓ ROHS Compliant

V KOHS Compliant					
Property	Li98		Unit	Tolerance	Test Method
Colour	Green	Red	-	-	Visual
Thickness	0.15	0.25	mm	-	ASTM D374
THICKHESS	0.0059	0.00984	inch	-	ASTM D374
Thermal Conductivity	0.95	0.95	W/mK	±0.10%	ASTM D5470
Continuous Working Temperature	-30 to	o 120	°C	-	-
Short Time Using Temperature	20	00	°C	-	-
Density	1.	85	g/cm³	±1.3	ASTM D792
Tensile Strength	200	400	psi	-	ASTM D412
Glass Transition Temperature	-30		°C	-	-
Initial Tack	10	8	cm	-	PSTC-6
Lap Shear Strength	61	55	N/cm²	-	ASTM D1002
Die Shear Strength 25 °C	120	109	N/cm²	±0.2	-
Die Shear Strength 80 °C	69	68	N/cm²		-
Holding Power 1000g 25 °C	>10	000	min		PSTC-7
Holding Power 1000g 80 °C	>10000		min		PSTC-7
90° Peeling Strength	>10	>12	N/in		ASTM D3330
Dielectric Breakdown Voltage (AC)	2	3	kV/mm	±0.10%	ASTM D149
Dielectric Breakdown Voltage (DC)	3	4	kV/mm	±0.10%	ASTM D149
Reinforcement Carrier	Fibergla	ss Mesh	-	-	-

Thermal Impedance vs Pressure vs Deflection



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Li98 Thermal Tape

Part Number Information

Li98

Product	Length	Width	Thickness	Adhesive
Li98	50mm	20	0.15	-

^{*} All measurements in mm

Standard Weights & Dimensional Tolerance

	Thickness (mm)	0.15 Weight (gr)	0.25 Weight (gr)
	100x100	2.78	4.63
Size	150x150	6.24	10.41
	300x300	24.98	41.63
	320x320	28.42	47.36

^{*} All measurements in weights are in gr

Data

Digi-Key Part	T-Global Part
1168-1715-ND	LP0001/01-Li98-0.15
1168-1908-ND	LP0007/01-Li98-0.25
1168-1867-ND	LP0003/01-Li98-0.25
1168-1845-ND	TG-CPCB1-Li98-0.15
1168-1843-ND	TG-CPCB2-Li98-0.15
1168-1841-ND	TG-CPCB3-Li98-0.15
1168-1847-ND	LP0001/01-Li98-0.25
1168-1857-ND	LP0002/01-Li98-0.25
1168-1907-ND	LP0007/01-Li98-0.15
1168-1763-ND	LP0003/01-Li98-0.15
1168-1718-ND	LP0002/01-Li98-0.15
1168-1766-ND	LP0004/01-Li98-0.15
1168-1769-ND	LP0005/01-Li98-0.15
1168-1877-ND	LP0004/01-Li98-0.25
1168-1772-ND	LP0006/01-Li98-0.15
1168-1887-ND	LP0005/01-Li98-0.25
1168-1897-ND	LP0006/01-Li98-0.25

	Thickness (mm)	Tolerance (mm)	
	0.3	±0.03	
	0.5	±0.05	
	0.8	±0.08	
	1.0	±0.1	
	1.2	±0.12	
Die-Cut	1.5	±0.15	
Thickness	2.0	±0.2	
Tolerances	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	

Digi-Key Part	T-Global Part	Thickness	Material	Adhesive	Backing Carrier	Thermal Conductivity	
1168-1715-ND	LP0001/01-Li98-0.15	0.0007" (0.178mm)					
1168-1908-ND	LP0007/01-Li98-0.25						
1168-1867-ND	LP0003/01-Li98-0.25		0.0007"	Acrylic	Both	C:bl	2014/ 1/
1168-1845-ND	TG-CPCB1-Li98-0.15		Elastomer	sides	Fiberglass	2.0 W/m-K	
1168-1843-ND	TG-CPCB2-Li98-0.15						
1168-1841-ND	TG-CPCB3-Li98-0.15						

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

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^{**} All sizes are in mm