

TG-CJ-Li-12-12-10-PF Ceramic Heat Spreader



Features

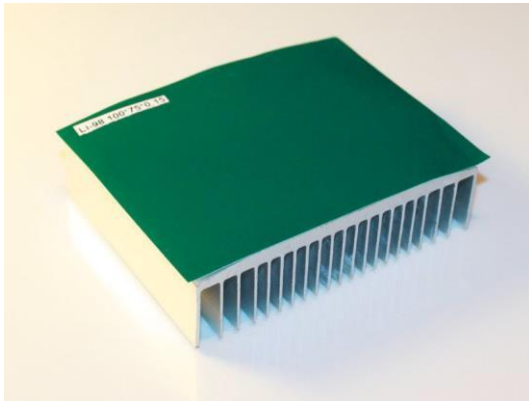
Large contact area
Low weight
High breakdown voltage
Excellent heat spreader
Custom shapes possible

Applications

LED/ NotebookPC/ M/B/ PowerTransistor/ PowerModule/CPU/ ChipIC

Main Component			AL ₂ O ₃
Physical Property	Density	g/cm ³	3.66
	Water Absorption	%	0.002
	Sinter Temperature	°C	1700
	Acid resistance	mg/cm ³	≤ 0.2
	Alkali	mg/cm ³	≤ 0.2
Mechanical Property	Mohs Hardness	HV	9
	Bend Strength	Mpa	≥ 610
	Compression Intensity	Mpa	≥ 620
Thermal Property	Maximum working temperature	°C	1400
	Refractoriness	°C	≥ 1500
	thermal expansion coefficient	(1 x 10 ⁻⁶)mm/°C	7.8 ~ 8.3
	Thermal Shock resistance	T(°C)	200
	Thermal Conductivity	W/m.k	40 ~ 51
Electrical Property	Resisting rate of Volume	Ω. °C	1016
	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

Li-98 ThermalTape



Features

- Good adhesion
- Very good thermal conductivity
- Highly compressible
- Easy to assemble

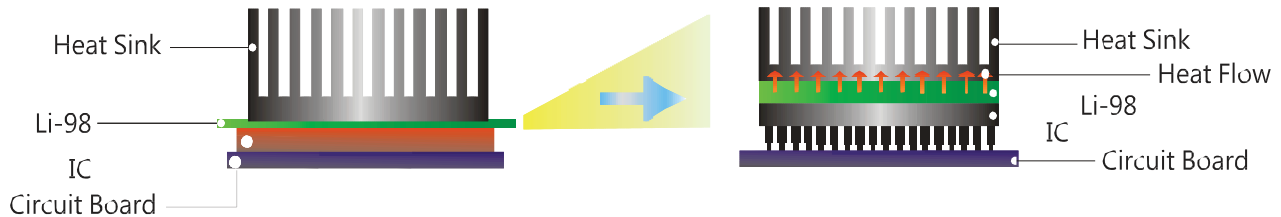
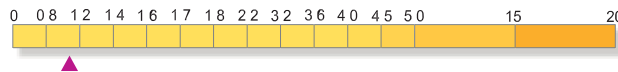
Applications

- 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

- REACH Compliant
- RoHS Compliant

Thermal Conductivity: 0.95 W/mK
(W/mK-Z Axis)



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 ³ 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	Cin 2/W ASTM D5470
Thermal Impedance @ 50psi	0.9	1.5	0.5	0.3	Cin 2/W ASTM D5470
Initial Tack	11	10	14	15	cm PSTC-6
Lap Shear Strength	61	61	65	55	N/cm ² ASTM D1002
Die Shear Strength @ 25 °C	120	120	118	100	N/cm ² -
Die Shear Strength @ 80 °C	69	69	68	55	N/cm ² -
Holding Power 1000g @ 25 °C using 1 in ²	>10000	>10000	>10000	>10000	min PSTC-7
Holding Power 1000g @ 80 °C using 1 in ²	>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

Available with an adhesive backing

