

LST-GBC-100-CU Graphite Bond Copper

DESCRIPTION

LST-GBC-100-CU Graphite Bond Copper series is a high thermal conductivity, excellent flexibility and high crystallized graphite material. It is made from carbon material by a special process bonded with Copper. It can be die-cut into any shape and size to provide thermal heat management solution for limited space application.



Features

- Thermal Conductivity 850 W/m-K
- Good EMI Shielding and Absorbing
- Reliable Temperature -40°C to 400°C
- RoHS Compliant and UL94VO Rated
- Offered Customized Combination Thickness

Benefits

- Able to die-cut into customizable shapes
- Adhesive-backed allow for peel-and-stick
- Can laminate with plastic, metals or foam
- Reduce skin temperature and eliminate "hot spots"
- Can replace grease, eliminate fans and heat pipes.

LST-GBC-010-CU Characteristics

Typical Properties	GTM	COPPER	
Color	Silver Gray	Nature	
Thickness (mm)	0.100	0.009	
Density (g/cm³)	0.85	-	
Thermal Conductivity (X-Y Direction), (W/m-K)	700	400	
Thermal Conductivity (Z Direction), (W/m-K)	26	-	
Thermal Diffusivity (cm²/s)	8 ~ 10	-	
Tensile Strength (Mpa)	20	-	
Electrical Conductivity (S/cm)	10,000	-	
CTE (Coefficient of Thermal Expansion) (1/K)	9.3 X 10 ⁻⁷	-	
Operating Temperature (°C)	-40 ~ +400		
Specific Heat @50°C (]/kg-°C)	850	-	
RoHS Compliant	Yes	-	

Part-Order Ordering System : LST-GBC-100- $\underline{P10}$ \underline{G} $\underline{A10}$ -CU- $\underline{A10}$ $\underline{(1)}$ $\underline{(2)}$ $\underline{(3)}$ $\underline{(4)}$

① P10 : P= PET (Not To Remove)

10 = Thk 10 or 30u

② G: Graphite Material Composite Position

3 A10 : A = Adhesive 10 = Thk 10 or 30u

CU: Copper Foil Bond

4 A10 : A = Adhesive 10 = Thk 10 or 30u

Note: Above properties listed information are typical or representative only.

GRAPHITE BOND COPPER MATERIAL CONFIGURATIONS AVAILABLE:

Structure		GTM Bond	ond Adhesive Type			Laminated Type (Insulation & Adhesive)					
Layer	Туре	Non AC	Single AC		Double AC		P30-A30	P30-A10	P10-A30	P10-A10	
I	Liner				Release	Release	Laminated Insulation (Polyester Tape / Insulative Adhesion Tape)				
II	Front				1 0 u	30u	(1 Olycstel	-	Do Not Remove)		
	Surface						30u	30u	1 O u	1 O u	
III	Graphite	Graphite Thermal Material 100u (0.100mm)									
IV	Bond Surface	Bonding Insulative Thickness = 10u									
V	Bond Material	BM Thickness = Copper (CU) 0.009mm or As Required									
VI	Rear Surface		30u	10u	30u	1 Ou	30u	1 Ou	30u	1 0 u	
VII	Release Liner		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Total Structure Layer		3	5	5	7	7	7	7	7	7	
Total Thickness		110u+BM	140u + BM	120u+BM	150u + BM	150u+BM	170u+BM	150u+BM	150u+BM	130u+BM	
Heat resistance		100 °C	100 °C	100 °C	100 °C	100 °C	100 °C	100 °C	100 °C	100 °C	

NOTICE: information contained herein are based on our best knowledge and accurate. However, before using, user shall determine, the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith.

LISAT

2870 Scott Street, Suite 101 Vista, CA 92081, U.S.A.

Tel: (1)-760-5981066 / Fax: (1)-760-5982871 / Email: alan@lisat.net / Website: www.lisat.net