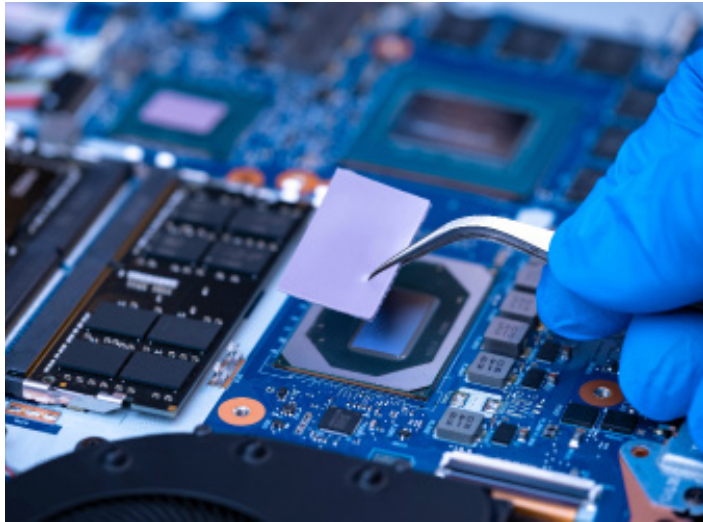


PCA 3.0 - PHASE CHANGE MATERIAL

Data Sheet DS_80 1/1



DESCRIPTION

Phase change materials (PCMs) have several advantages, including high energy storage density, low volume change during phase transition, and the ability to maintain a constant temperature during thermal energy storage and release. They can also reduce energy consumption and costs in buildings and industrial applications, and can be integrated into existing systems with minimal modifications.

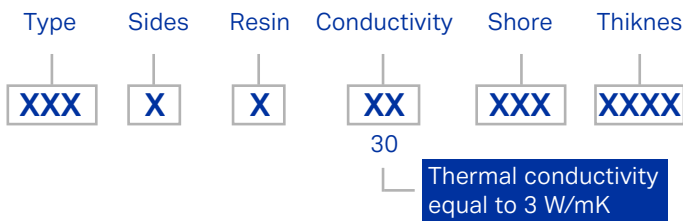
Additionally, PCMs are environmentally friendly and have a long lifespan. They offer a versatile solution for thermal management in various fields and can improve the efficiency and sustainability of energy systems.



RoHS 3 / REACH
Last updated compliance directive



PART NUMBER:



TYPICAL APPLICATIONS:

- High frequency microprocessor
- Portable or desktop computer
- Computer server
- Storage
- Integrated chip
- LED lighting products.

Properties	UNITS	PCA0P30055130	TEST METHOD
Color	-	Gray	Visual
Thickness	mm (inches)	0.127 (0.005)	-
Thickness Tolerance	mm (inches)	± 0.016 (±0.0006)	-
Density	g/cc	1.8	-
Temperature range	°C	-40 / 125	-
Phase Change Softening Temperature	°C	50 / 65	-
Volume Resistivity	Ohm/cm	2.0x10 ¹³	ASTM D257
Thermal Conductivity	W/mK	3.0	ASTM D5470
Dielectric Constant	1M HZ	3.0	ASTM D150
Thermal Impedance @50psi /@10psi	°C-in/W	0.02/0.05	ASTMD5470

STORAGE CONDITIONS

Keep storage climate conditions below 24°C and 55% relative humidity. In the event of storing under very low warehouse temperatures give some time for the packed TIM's to stabilize to room temperature before opening. Keeping the above mentioned storage conditions and avoiding TIM's damage by humidity uptake will give a useful life of 6 months after production date.