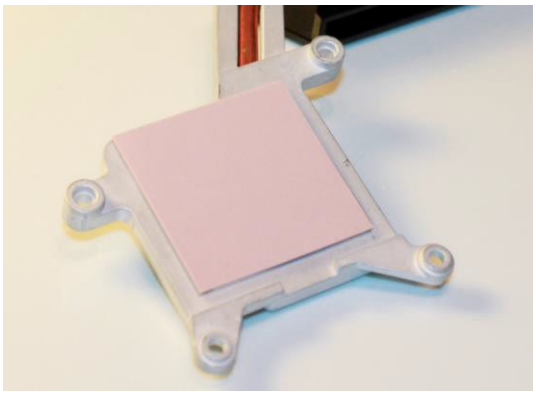
PCM20
Phase Change Material



Thermal Conductivity 1 ~ 2.5 W/m.K

Features

Naturally tacky and easy to use
Low thermal resistance
Long term reliability
Good thermal conductivity
Customized parts
Maximize the contact area between surfaces

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...

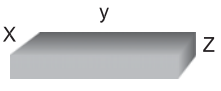
REACH Compliant RoHS Compliant

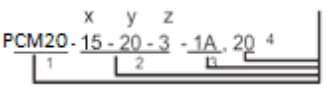
PCM20 phase-change thermal interface materials) are desinged to fill air gaps and voids between the heatgenerator and heatsinks, while at the same time displacing entrapped air between power dissipating components.
The performance of the heat sink benefits a lot from the low heat resistance while improving the microprocessor performance, DC- DC converter of memory module and the reliability of power module.

PCM20 characteristics:
-At room temperature, PCM20 materials are solid and easy to handle. This allows them to be consistently and cleanly applied as dry pads to a heat sink or component surface.
-once the temperature reaches to the phase change temperature, the pad will fully change phase and attain minimum bond-line thickness and maximum surface wetting. This results in practically no thermal contact resistance due to a very small thermal resistance path.
-These property results in PCM20 material softens as it reaches component operating temperatures. With light clamping pressure it will readily conform to both mating surfaces.
The material is nonconductive, however, as the material has endured the phase change at high temperature, may make the metal get to the metal, so the phase change interface material cannot be used as electrical insulating material

Property	Unit	PCM20			
		PCM20G	PCM20B	PCM20P	PCM20Y
Colour		Gray	Black	Pink	Yellow
Carrier			Aluminum foil		
Thermal impedance	°Cin2/w	0.035	0.03	0.05	0.05
Thermal conductivity	W/m·K	2	2.5	1.0	1.0
Phase Changing Temperature	℃	50～60	50～60	50～60	50～60
Density	g/cm2	1.2	2.2	1.3	1.35
Thickness	mm	0.076/0.127	0.09	0.127	0.127
Storage temp	℃	＜40	＜40	＜45	＜45
Operating Temperature	℃	-45～125	-45～125	-45～125	-45～125
Shelf life	Month	12	24	12	12

Available with an adhesive backing





1. Part Number
2. Size X-Y-Z
3. Adhesive backing – 0-None, 1A-one side, 2A-two sides
4. Quantity

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