Product Brief

Thermal Interface Material (TIM)
The only Infineon-qualified solution

Higher power densities in power electronics are posing greater challenges for the thermal interface between the power module and heat sink.

A specially developed thermal interface material pre-applied to our power modules outperforms the general-purpose materials available.

TIM fulfills the highest quality standards for power modules to achieve the longest lifetime and highest system reliability.

TIM has been developed to fit most of our existing power module packages as well as upcoming future designs. Using modules with pre-applied TIM will enable reproducible thermal performance of power electronic applications.

Benefits
› Reduced process time in manufacturing
› Simplified mounting
› Increased system reliability
› Increased system lifetime
› Optimized thermal management
› Improved handling in case of maintenance

Key features
› Pre-applied to Infineon modules
› Dry to the touch
› Optimized for dedicated Infineon modules

Applications
› Suitable for applications with demanding lifetime and durability requirements

www.infineon.com/tim
Pre-Applied Thermal Interface Material
The only Infineon-qualified solution

Broad portfolio available:
- 62 mm
- PrimePACK™ 2/3
- EconoDUAL™ 3
- EconoPACK™ +
- EconoPACK™ 2/3
- EconoPIM™ 2/3
- EconoPACK™ 4
- IHM-B Cu
- PowerBLOCK 50/60/70

Thermal improvement and long-term stability

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<tr>
<th>Time in HTS* [Weeks]</th>
<th>Tj–Tamb [K]</th>
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<tr>
<td>1</td>
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<td>2</td>
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<td>3</td>
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<td>90</td>
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<td>5</td>
<td>100</td>
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*HTS: High Temperature Storing, Stress test 1000 h, 125 °C

Mod-3: Material with gradual degradation
Mod-2: Material with unexpected degradation
Mod-1: Stable behavior as demanded
Infineon TIM with superior performance

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