



Product Training Module: T62 Series

Jan 2012

Introduction

- Purpose
 - This training module is used to give an introduction to t-Global Technology's T62 product range
- Objectives
 - To identify the key properties of the T62 product range
 - To identify the key design criteria for product selection
 - To identify common applications for the product
- Content
 - Introduction and background to the T62 Series
- Learning time
 - 20 mins

T62 - Series

- The T62 series is T-Global Technology's range of graphite interface products
- Each member in the family has been developed to address specific industrial needs
- All products are available as standard sheets or custom die-cuts
- The thermal conductivity is 400 W/m-k in the X-Y plane and between 5 -15 W/m-k in the Z axis
- T-Global Specializes in customized thermal products to meet all requirements.



T62 Series

The T62 series offers the following unique benefits:

Benefits	
<ul style="list-style-type: none"> ● No hardening or outgassing → 	<p>Long term stability</p>
<ul style="list-style-type: none"> ● High temperature resistance → 	<p>Maintains integrity of the component</p>
<ul style="list-style-type: none"> ● Soft and flexible → 	<p>gives excellent low stress vibration dampening and shock absorbing characteristics</p>
<ul style="list-style-type: none"> ● Silicone free → 	<p>ALL silicone based pads can bleed</p>
<ul style="list-style-type: none"> ● Anisotropic thermal conductivity → 	<p>Excellent thermal management for demanding applications</p>

TG 62

- TG62 is a graphite thermal interface pad
- Its thickness is 0.13mm
- Across plane conductivity is 400 W/m-k
- Through plane conductivity is 5 w/m-k
- The product is →98% graphite
- Common applications include
 - Areas where high clamping pressures can be tolerated
 - DC-DC convertors
 - Applications where electrical conductivity is desired:

TG 62-1

- TG62 is a graphite thermal interface pad with one side coated in a pressure sensitive adhesive
- The adhesive is used to aid manufacturing processes and is not considered to be a structural adhesive
- Its thickness is 0.16mm
- Across plane conductivity is 400 W/m-k
- Through plane conductivity is 15 w/m-k
- The product is →98% graphite
- Common applications include
 - Areas where high clamping pressures can be tolerated
 - DC-DC convertors



Pressure sensitive adhesive

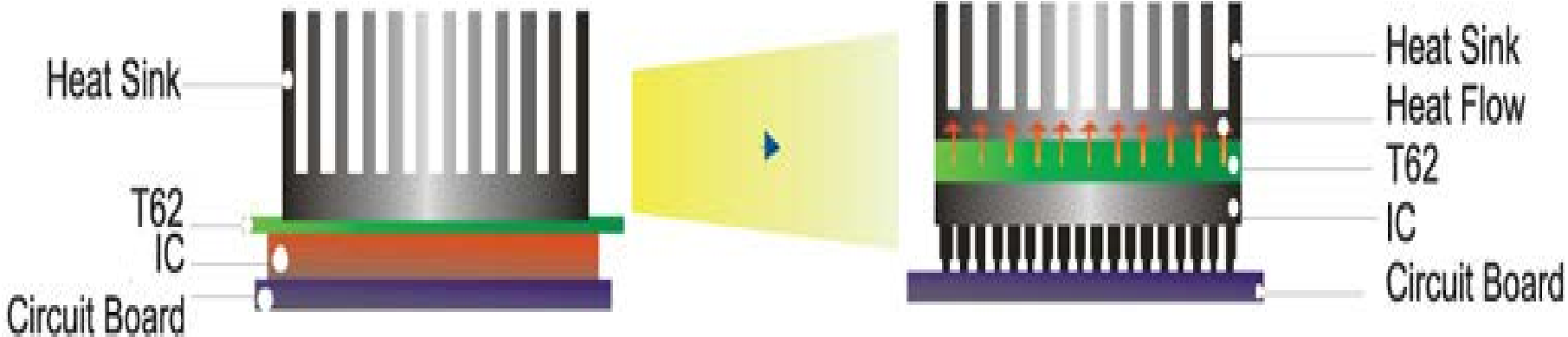
TG 62-2

- TG 62-2 is a graphite thermal interface pad with one side coated in a pressure sensitive adhesive and one side PET
- The adhesive is used to aid manufacturing processes and is not considered to be a structural adhesive
- The PET film gives excellent break-down performance
- The thickness of TG 62-2 is 0.2mm
- Across plane conductivity is 400 W/m-k
- Through plane conductivity is 5 w/m-k

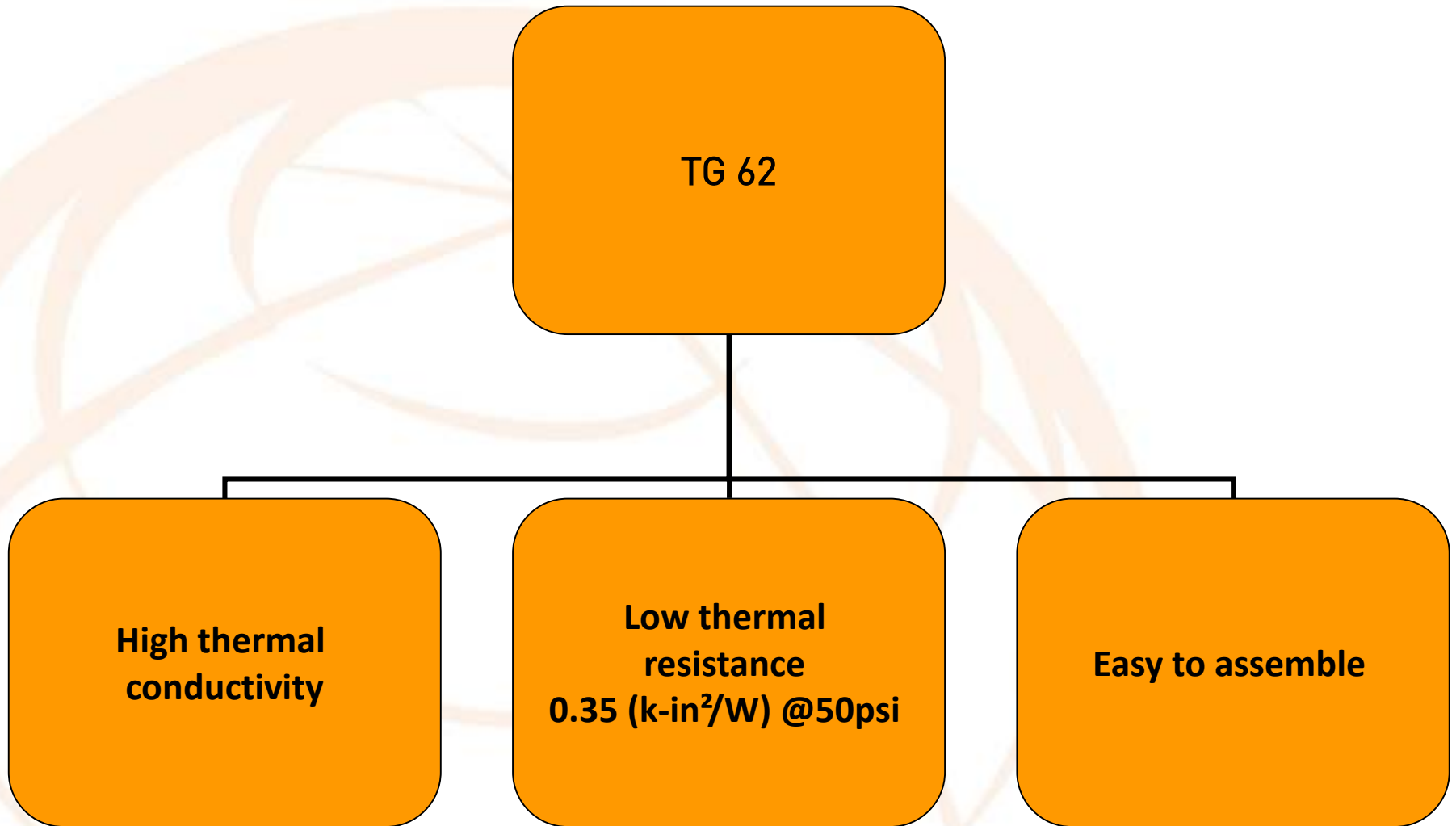


TG 62 Application

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TG 62 features





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Summary

- The TG62 range of graphite interface products from T-global are available in thicknesses from 0.13 – 0.2mm
- TG62 is available in three formats
 - Plane graphite sheets (TG62)
 - With one side coated with a pressure sensitive adhesive (TG62-1)
 - With one side coated with a pressure sensitive adhesive and one side PET (TG62-2)
- The TG62 series can be supplied in standard sheet form or as die cuts