



Product Training Module for the use of TG-X in ASIC cooling

April 2013



Introduction

- Purpose
 - This training module is used to give an introduction to t-Global Technology's TG-X which is specifically designed for thermal management of demanding applications such as ASIC cooling
- Objectives
 - To identify the key properties of the product range
 - To identify the key design criteria for product selection
- Content
 - Introduction and background to the product range
- Learning time
 - 15 mins

ASICs

- ASICs are custom built ICs designed for a specific purpose
- The maximum complexity of an ASIC is currently about 100 million gates
- ASICs offer the advantages of:
 - Reduced system cost
 - Space savings
 - Reduced power consumption
 - High reliability

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Summary

- Thermal management in RRH units poses some unique challenges
- Basic requirements for a thermal interface material for a RRH include:
 - High thermal conductivity
 - Good conformability
 - Low cost
 - Ease of rework
 - Good long term reliability
- TG4040S addresses all these issues and is available:
 - Thicknesses 1 – 5mm
 - As custom die cut parts or standard sheets