

BIB & HAST BOARDS

HTOL and HAST testing



Key Features

HTOL

- BIB for elevated temperatures
- Boards for all Burn-in systems
- Extensive design library
- Designs using all socket types
- Fine pitch layouts

HAST

- Boards for HAST and THB
- Designs for all package types
- Silicone conformal coating
- Lead free assemblies
- Boards for all chamber types

Add-ons

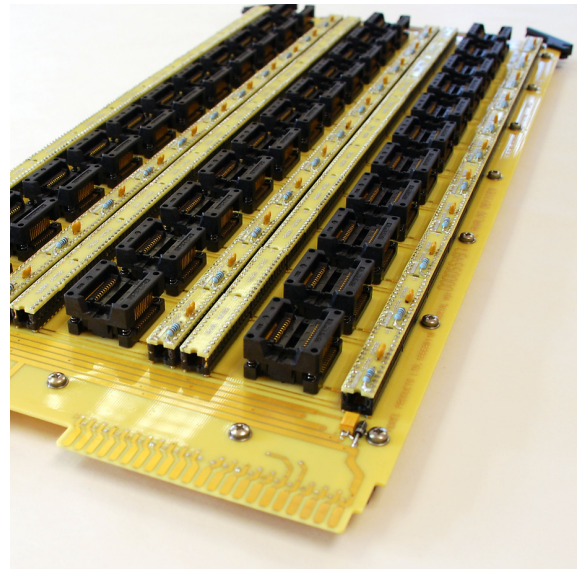
- Bibtest55 XL BIB test system
- Socket test probes
- Stainless steel chamber racks
- Full turn-key system solutions

Product Highlights

- High Temperature board applications up to 300°C
- HAST boards for extended life
- Board designs for all package types
- Over 5000 board designs completed to date
- Supplier to all major Semiconductor Companies
- Boards supplied for all system types
- Large inventory of burn-in sockets on stock
- 6 week standard delivery - premium delivery available
- ISO9001:2008 certified

Product Overview

■ Abrel Products have been a market leader in the design and manufacture of burn-in boards since 1994, and are an approved global supplier to all of the major semiconductor companies. Boards can be supplied for all system types, with solutions available for many test conditions, including HTOL, PTC, HAST and 85/85.



■ Abrel manufactures boards for all the latest technologies, including fine pitch to 0.4mm and WLCSP wafer level. Abrel have an experienced engineering team with a design capability which includes boards featuring technologies such as buried, blind, filled and capped via.

■ All boards are designed, assembled and tested in-house in Abrel's ISO9001:2008 certified facility.

Summary Product Specifications

■ Board Design

CAD systems	4x Seetrax Ranger
Schematic	Ranger schematic entry
Mechanical layout	Autocad / Solidworks
Throughput	25+ designs / month
Board types	Library of all system types
Expertise	>5000 BIB designs
Technology	Controlled impedance, microvia. layouts

■ Materials

Laminates <125°C	High Tg FR4
Laminates <250°C	Polyimide
Laminates <300°C	High grade polyimide
Solders	Sn/Ag lead free
Plating	Full / selective Ni and Au
Coatings	Silicone conformal coat
Board supports	Aluminium and stainless

■ Board Specification

Panel size	32" x 32"
No of layers	14layers
Pitch spacing	0.3mm (WLCSP / CSP)
Trace widths	3mil spacing
Board plating	Ni and Au finishes
Device pincounts	>2000 pins
Max operating temperature	300°C
Maximum Voltage	10KV
Technology	Microvia, blind, buried via
Socket types	Enplas, Wells-Cti, Plastronics, Yamaichi, LIC

■ BI Systems

Abrel	Endzone
Aehr	ATX, MAX, ATS12000
MCC	Abes II, III, IV, V
Novtek	NTS Flash Memory
Heraues	HEP28, HEP54
Reliability	Criteria IV, V, VI, VII, VIII
Espec	EHS211, 221, 411
Express Test	HAST 1000, HAST 6000
EJ Wakefield	Wakefield
EDA	EDA HP / HD
Reltech	High Density, Midas

■ Manufacturing

Component placement	Automatic glue dot
Component loading	Quad pick and place
Assembly	SMT or thru hole
Throughput	15000 placements per hour
Capacity	250 boards / week
Baking	Blue M bake chamber
Soldering	Invicta Dual solder wave
Cleaning	Kerry Ultrasonic cleaning
Conformal coating	Silicone coating lab
Board test	Bibtest55 XL BIB test stations
Product Conformance	ISO9001:2008 certified

■ After Sales

Sales Support	Global support locations
Repairs	Socket and board rework
MIL883 testing	Full BIB retest
Certification	Test reports and certification



Abrel Products

Raheen Business Park
Limerick
Rep of Ireland

Tel: +353 61 304566
Fax: +353 61 304567
Email: info@abrel.com
Web <http://www.abrel.com>