

Introducing The Revolutionary Thermal Shock Technology



HIGHLY ACCELERATED THERMAL SHOCK*

- In use by the IPC PCQR² Database
- Test services available from independent test laboratories
- Systems installed at major US OEM's, Printed Circuit Manufacturers, and International Laboratories
- Systems available for purchase and lease

* Patent Pending

INTEGRATED RELIABILITY TEST SYSTEMS, INC.
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Ground Breaking Test Methodology Saves Time & Money

- 36 coupon capacity with 4 via daisy-chains per coupon
- Temperature range from -60 to +160C
- Reduce operating costs over dual chamber systems
- Reduce cycle times by a factor of 10
- Up to 1000 cycles in 4 days
- Built on existing thermal shock standards

For more information call **714.765.5527** or visit **www.hats-tester.com**





HIGHLY ACCELERATED THERMAL SHOCK

TECHNICAL specifications

PHYSICAL

Case Dimensions..... 48 x 35 x 45 in. (W x D x H)
Weight..... 1150 pounds (522 Kg)

OPERATING ENVIRONMENT

Environment..... Clean, dry and chemical-free
Temperature..... 18 to 28 C
Relative Humidity..... 20 to 65%

UTILITIES

Power..... 208, 220 or 240 VAC single-
phase, 50/60 Hz, 30 Amp
Power Stability..... $\pm 10\%$
Air Pressure..... 100-110 PSIG (690-760 KPa)
Air Flow Rate..... 14-16 SCFM (6.6-7.6 liters/sec)
Air Dew Point..... Less than 10 C at 80 PSIG
(550 KPa)
Air Quality..... Clean, dry air, free of oil,
moisture and particles

SOFTWARE*

Environment..... Windows®
HATS-Test..... Data acquisition
HATS-AP..... Data analysis
Analysis Outputs..... PostScript® and Adobe PDF

DATA ACQUISITION

Bus..... IEEE-488
4-Wire Resistance..... High speed switch matrix

* Subject to the "IRTS Terms and Conditions of Sale" and
may require an "IRTS Service License Agreement".

VIA FIXTURE

Coupon Size..... 1 x 2 inches (2.5 x 5 cm)
maximum
Coupon Count..... 36 maximum
Net Count..... 4 per coupon (144 total)

THERMAL PERFORMANCE

Range..... -60 to 160 C (at coupon)
Air Stream Transition..... 30 seconds (-60 to 160 C)
Air Stability..... ± 2 C or $\pm 2\%$ (at coupon)

4-WIRE RESISTANCE PERFORMANCE

Accuracy..... 2% of resistance value
Precision..... 2% resistance coefficient
of variation
Speed..... 12 readings per second

CALIBRATION

Software..... Integrated into HATS-Test
Calibration Cards..... 36 each

SPARE PARTS

Switch Cards..... 6 each
Calibration Cards..... 6 each

CONSUMABLES

8-pin Headers..... 2 per coupon

DOCUMENTATION

Operation and maintenance



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