Temperature Test

System 8800

Simultaneous temperature testing of up to four different device frequencies, easy to use and surprisingly affordable!

QUADROTEMP™
TESTING SOFTWARE

CARDINAL COMPONENTS

WITH INNOVATIVE TECHNOLOGY that is generations ahead of the competition, the Temperature Test System 8800 facilitates testing and introduces new levels of accuracy and dependability.

Features easy to execute QuadroTemp™ software and operator friendly intuitive performance. Simple to use, requires no advanced training, surprisingly affordable and exceptionally reliable, while assuring superior output and data integrity.

Components:

- **8800 Furnace with integrated computer**
- **Windows XP operating system**
- **QuadroTemp™ proprietary software**
- **Four (4) temperature test boards**
- **One (1) backplane board**
- **Two (2) Agilent power supplies**
- **One (1) frequency counter**
- **Versatile work station/storage rack**
- **Limited lifetime warranty**

QUADROTEMP™
TESTING SOFTWARE

Comes with a compact, versatile work station/storage rack that facilitates operations.

The Temperature Test System 8800 offers a choice of cooling options including liquid nitrogen and carbon dioxide, and testing capabilities from –55ºC to 125ºC, with a sweep rate to 8ºC/min.

The Temperature Test System 8800

Features

- **Four (4) test boards per furnace**
- **Simultaneous temperature testing of up to four different device frequencies**
- **Multiple package styles per board**
- **Cooling options:**
  - **Liquid nitrogen**
  - **Liquid carbon dioxide**
- **Temperature test capability:**
  - **–55ºC to 125ºC test range**
  - **Sweep rate to 8ºC/min.**

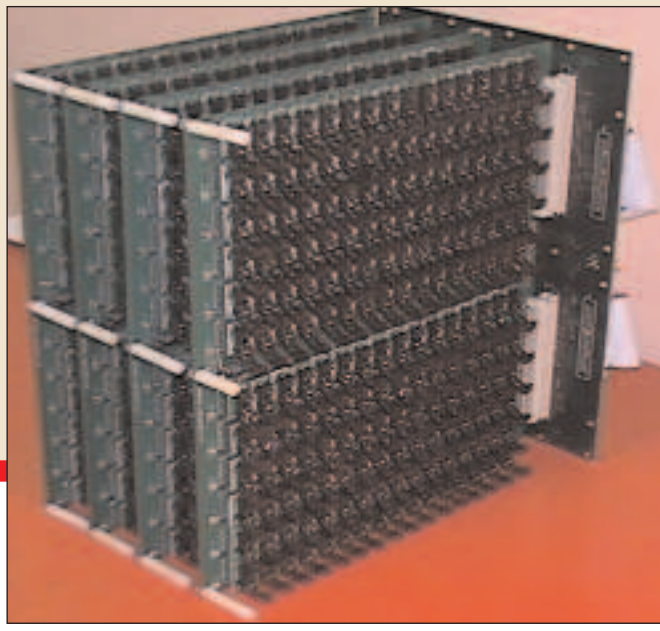
The Temperature Test System 8800

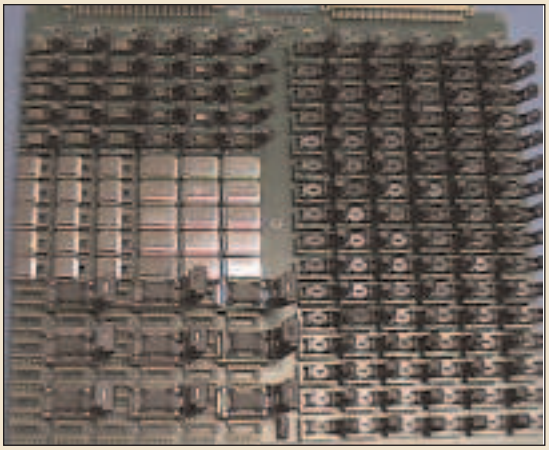
Capacity:

- **Up to 192 devices per test board**
- **Up to four boards per furnace**
- **Up to 768 parts per load**
- **Simultaneous testing of multiple devices**

Full Size
Half Size
9 x 14 (Plastic)
5 x 7
5 x 3.2
3.2 x 2.5
plus other sizes

Simultaneous temperature testing of up to four boards per furnace, and four different device frequencies.





Temperature Test System 8800 accomodates multiple devices per board.

The Temperature Test System 8800

Analysis

Characterization

- **Cubic parameters**
  - **Maximum deviation**
  - **RMS deviation**
- **Automatic characterization of devices for AT cut oscillators**
- **Cut angle estimation**
- **PPM over two temperature ranges**
  - **Maximum / minimum**

The Temperature Test System 8800

Measurement phase

Fully configurable

- **Frequency measurement range up to 160 MHz**
- **Selectable temperature sweep rate**
- **Selectable frequency and initial ppm tolerance for up to four different device types**

Reliable

- **Automatic initial check of devices**
- **No moving parts**

Durable

- **With continuous measurement capability**

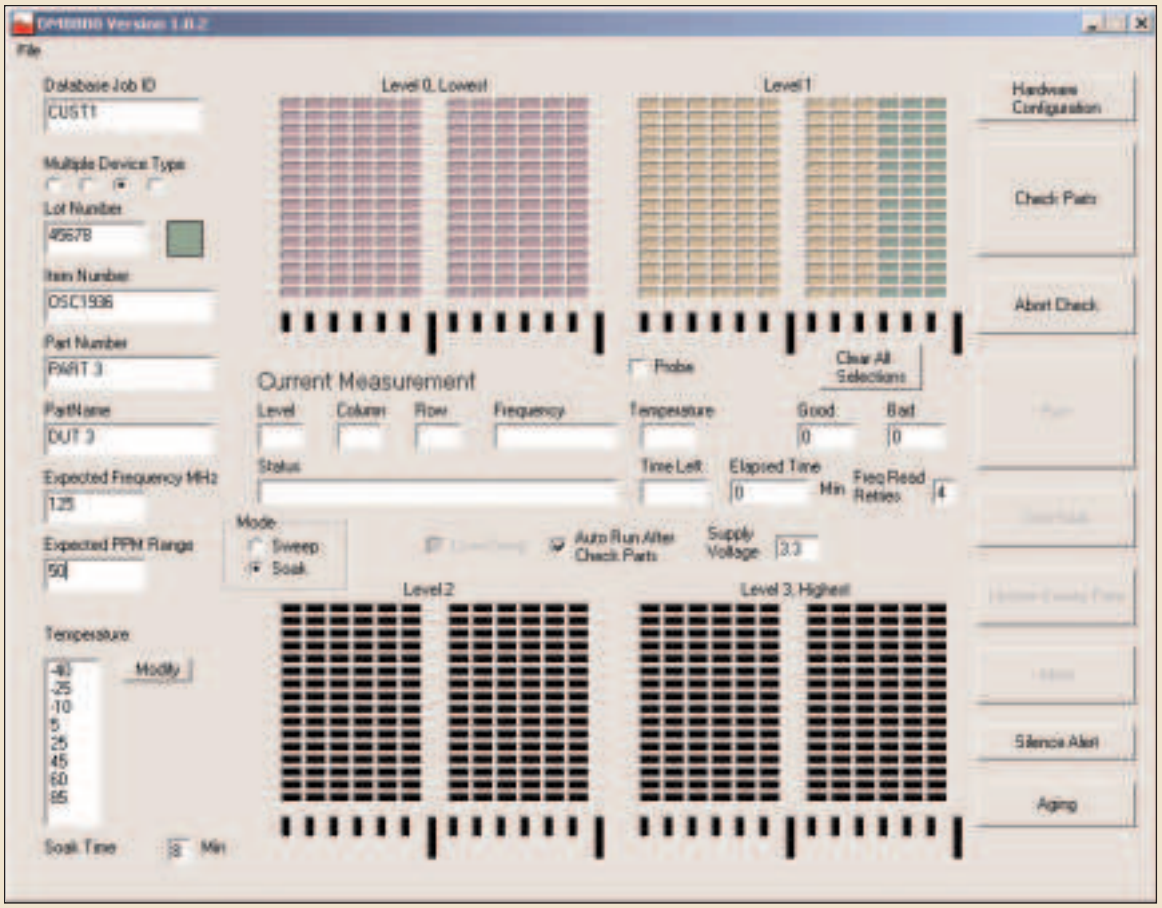
The Temperature Test System 8800 allows automatic characterization of devices for AT cut oscillators.

Screen Setup

At right: Main setup screen of QuadroTemp™ (selected for soak mode). Up to four boards of 192 devices can be tested. Up to four different device types can be tested on a single run.

Each device type is represented by a different color. The device type for an individual location is selected by a click with the mouse.

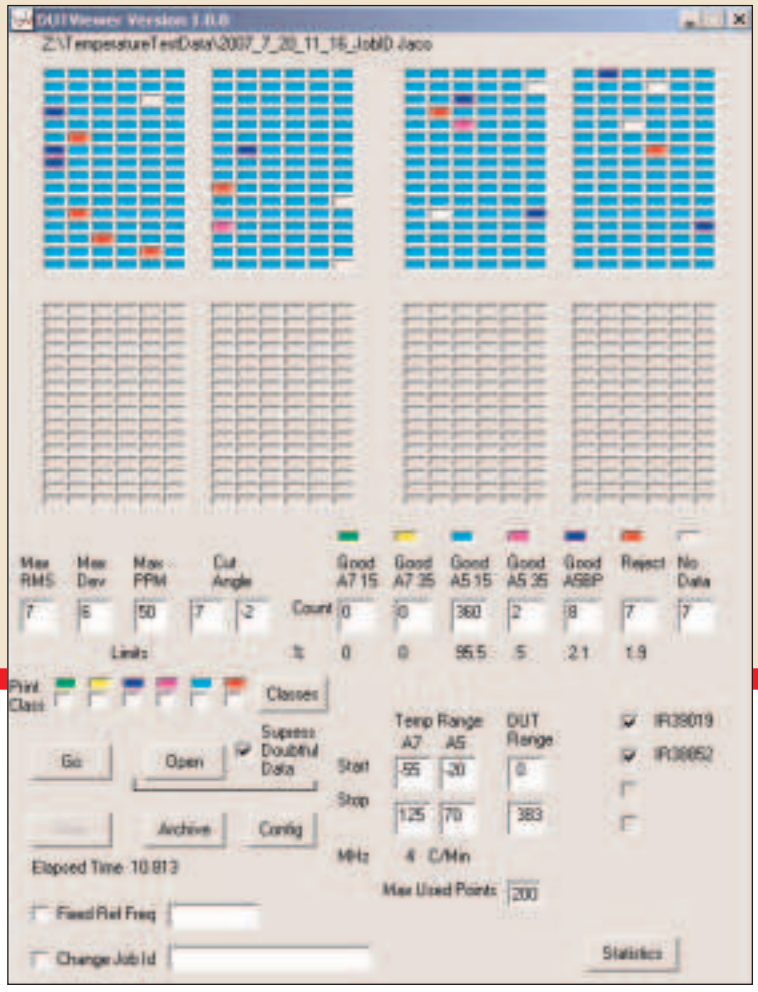
Whole columns or half boards of the same device type can be selected by a single click.

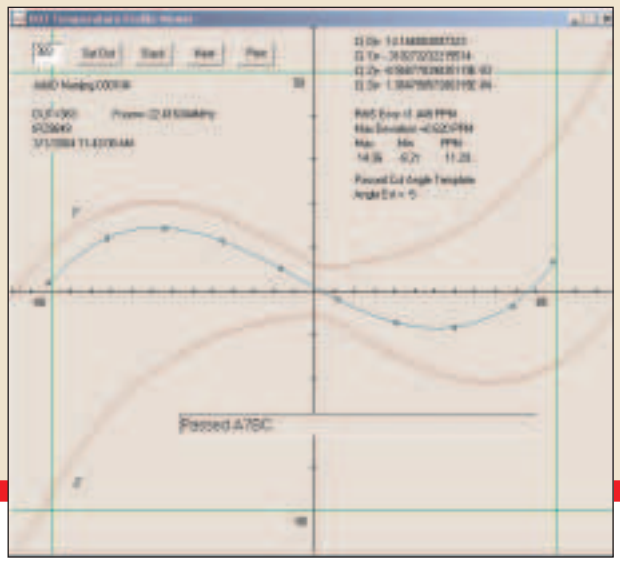


QUADROTEMP™ TESTING SOFTWARE

DUT Analysis

The results of the DM8800 are viewed by the DV8800 QuadroTemp™ software which allows for automatic grading of devices.





DUT Temperature Curve

The results of each device tested can be viewed by a single click on the device in the main screen or the specific device number can be entered.

The Temperature Test System 8800

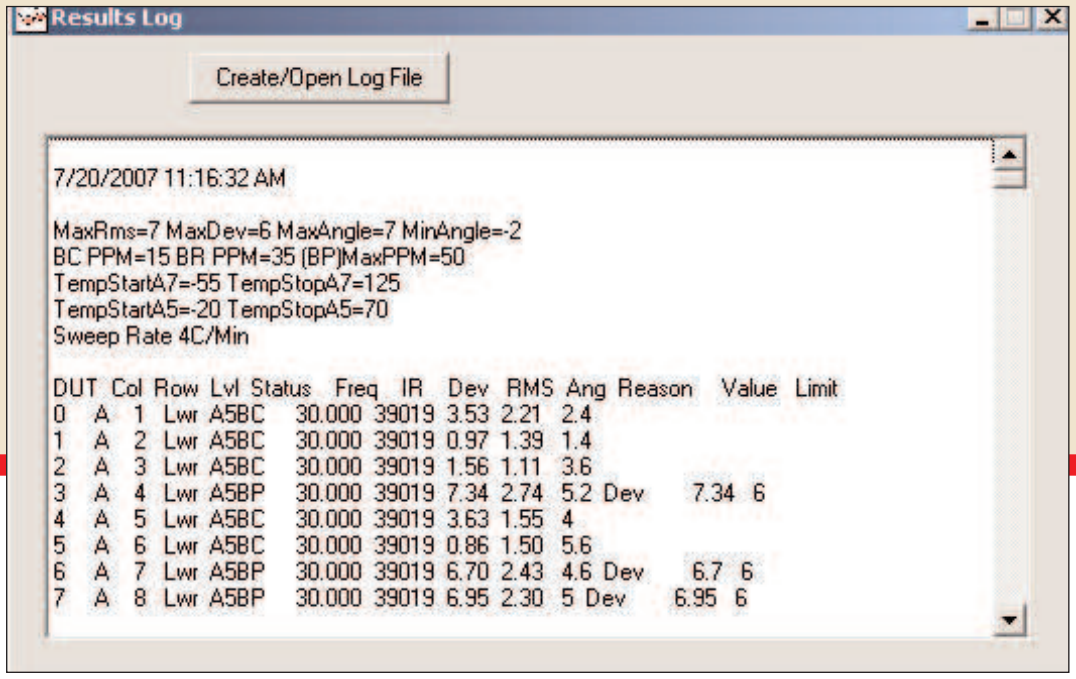
Capabilities

- **Archival of test data for re-analysis of data**
- **Printing of test data and analysis**
- **Rapid analysis phase:**
  - **All devices**
  - **Devices by type**
  - **Devices by DUT position**

The Temperature Test System 8800

Device Grading

- **Automatic categorization of devices for AT cut oscillators**
- **Grading characteristics for devices**
  - **Maximum allowed PPM**
  - **Maximum PPM deviation from cubic**
  - **Maximum PPM RMS deviation from cubic**
  - **AT cut angles limits**



The results of the grading can be viewed and printed.

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Reporting

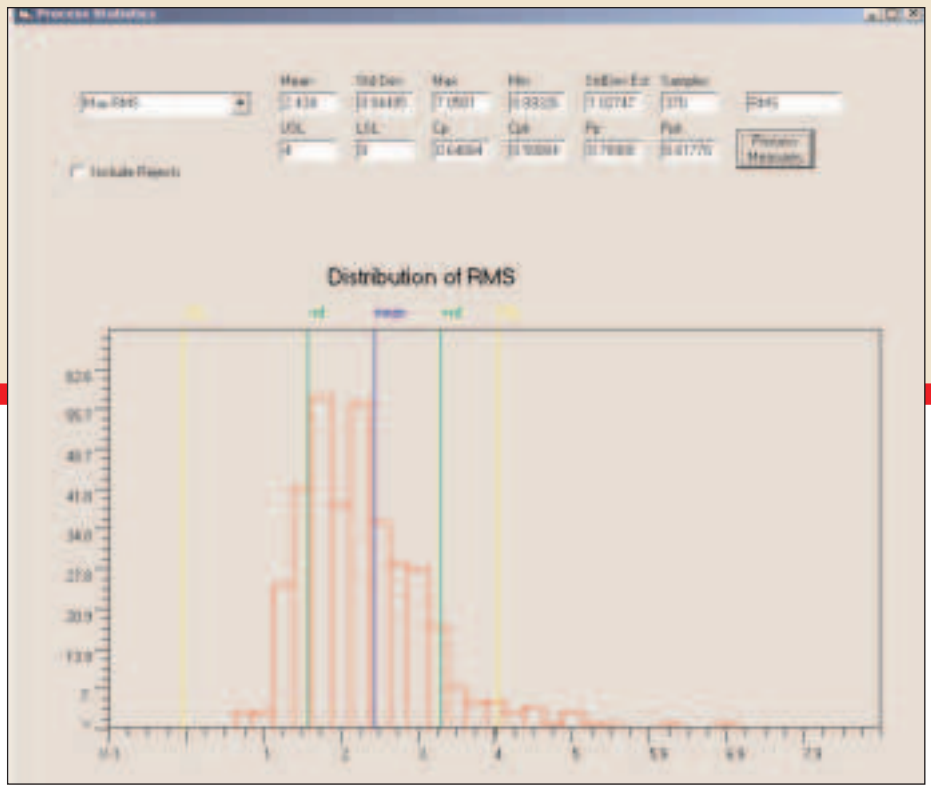
- **Devices by DUT position order**
- **Devices by category**
- **Data export for statistical analysis**

The Temperature Test System 8800

Available Options

- **LVPECL testing**
- **LVDS testing**
- **TCXO compensation**
- **VCTCXO compensation**
- **Oscillator aging measurements and analysis**

Statistic results from the run can be shown.



An extremely accurate and surprisingly affordable testing package !

CONTACT US TODAY FOR MORE INFORMATION OR TO PLACE YOUR ORDER !

CARDINAL COMPONENTS

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