S&A W-220MR CRYSTAL TEMPERATURE TEST SYSTEM

- Industry’s first crystal temperature test system with 100% electronic switching
- Proprietary 50 ohm reflection network provides typical frequency measurement repeatability < 0.02 ppm
- High speed, high precision frequency measurement using calculated FL over temperature
- Chamber holds eight 64-position pallet socket DUT PCBs for a total of 512 parts
- Crystals of different frequencies can be tested in a single temperature run
- Parameter and curve fit characteristics are checked against easy to define QC limits
- All data is published in a Microsoft Access™ data base
- Printouts are generated using Crystal Reports®
- Data can be exported to Microsoft Excel™ for custom data analysis

SPECIFICATIONS

250B-1 Frequency Range: 1 MHz to 220 MHz
250C Frequency Range: 1 MHz to 500 MHz
Frequency Correlation: ± 1 ppm* at series (typical)
Frequency Repeatability: < 0.02 ppm (typical)
Temperature Stability: ± 0.1° C
Temperature Range:
-55° C to 125° C (MR)
-65° C to 125° C (MR with LN₂ Boost)

* Proprietary measurement and calibration algorithms provide correlation to industry standard crystal measurement equipment.
SYSTEM CONFIGURATION

- S&A 250B-1 or 250C Network Analyzer
- S&A 4350MR Option 1 Temperature Test Chamber
- Eight position card cage and backplane PCB
- 50 Ohm Reflection Networks
- Windows® based System Software
- Computer
- Printer (Optional)

SAMPLE REPORTS

Deviation from curvefit shows the system’s excellent measurement repeatability

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