S&A

5500B MCF PLATING SYSTEM

- Monolithic Crystal Filter final frequency adjust plating system
- Plates FE1, FE2 and bandwidth to user specified targets
- Measured parameters are checked against easy to define Q.C. limits after each filter is plated
- Measurement data may immediately be stored and/or printed
- Leaded devices held in linear transports
- Surface mount devices held in component tray or customer specified pallet array

SPECIFICATIONS

Frequency Range: 10 MHz - 300 MHz
Plating Performance: ± 4 ppm typical final frequency

The component area is customized to precise device size requirements
- Proprietary measurement technique
- Does not require a variable inductor
- Precise X-Y table positioning

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MEASUREMENTS

- Center Frequency
- Symmetry
- Short Circuit Bandwidth
- Resonator Frequency Port 1
- Resonator Frequency Port 2
- Total Resistance
- Resonator 1
  - Resistance
  - Inductance
  - Capacitance
- Resonator 2
  - Resistance
  - Inductance
  - Capacitance

SYSTEM CONFIGURATION

- Vector Voltmeter
- Dual Output Synthesizers
- X-Y Table Vacuum Assembly
- Turbo or Cryo Pump
- Direct Drive Roughing Pump
- Computer
- Light Pole
- System Software
- Closed Loop Water Cooled Filament
- Bar Code Reader (Optional)
- Printer (Optional)
- Quartz Crystal Plating (Optional)

FACILITY REQUIREMENTS

- Power: 220 Volts @ 30 A or 380 Volts @ 20 A, 3-Phase
- Inlet Pressures:
  - Air: 90 PSIG
  - Nitrogen: 20 PSIG (Turbo), 70 PSIG (cryo)
- Cryo Water Cooling: 0.5 GPM @ 70 °F, typical
- Dimensions:
  - 52.5 x 34.5 x 55 Inches (excluding light pole & cryo compressor) (133.4 x 87.6 x 139.7 cm)
  - Cryo pump compressor 19.5 x 24 x 19 inches (49.2 x 61 x 48.3 cm)
  - Light pole 39.5 inches (100.3 cm)

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