Three Pole, Monolithic Crystal Filter final frequency adjust plating system

Plates three resonators and two coupling areas 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

Surface mount devices held in component tray or customer specified pallet array

The component area is customized to precise device size requirements

Proprietary measurement technique

Does not require a variable inductor

Precise X-Y table positioning

SPECIFICATIONS

Frequency Range: 10 MHz - 200 MHz
Plating Performance: ± 4 ppm final frequency, typical

Roditi International Corp. Ltd,
Machiavelli House, 102 Stewarts Road, London. SW8 4UG. Tel: +44 (0) 20 7819 8080
FAX: +44 (0) 20 7720 5261 E-Mail saunders@roditi.com - World Wide Web http://www.roditi.com
MEASUREMENTS

- Center Frequency
- Symmetry
- Bandwidth of Coupling Area 1
- Bandwidth of Coupling Area 2
- Resonator Frequency Port 1
- Resonator Frequency Port 2
- Resonator Frequency Port 3
- 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 Cooling of Filament
  - Bar Code Reader (Optional)
  - Printer (Optional)
  - Quartz Crystal Plating (Optional)
  - Two Pole MCF Plating (Optional)

FACILITY REQUIREMENTS

- Power: 220 Volts @ 30 A or 380 Volts @ 20 A, 3-Phase
- Inlet Pressures: 150 PSIG Maximum
- 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 139.7cm)
  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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