

μPARSET - DISCRETE HIGH-VOLUME TESTER

Eliminates lengthy test times

Gain short tester times and increase production at a lower total cost of ownership. Built as a modular parameter test system for discrete semiconductor devices with up to 12 leads, the Discrete High-Volume Tester enables high throughput. Flexible hardware and software make the Tester suitable for all wafer testing, final testing, acceptance or quality testing, and device characterization tasks. μPARSET software gathers data about measured devices and produces various insights. It is handler and prober agnostic, equipped to connect to any prober or tester. High accuracy leads to a narrow spread in test results and better products. It can connect up to four handlers when floor space is limited.



Key features

Target segments

- Back-end final test
- Wafer Test

High performance

- Handler and prober agnostic
- Multi-site testing
- 1 to 4 handlers
- Short test times
- Pin electronics (voltage and current measurement on all pins simultaneously)
- Maximum number of pins: (FT and AT/QT): 6 or 12 pins
- High-quality diagnostics and calibration
- High accuracy

Test heads

- Current amplifier for fast leakage measurement
- Short and open pins close to DUT
- Dedicated test hardware

Embedded software

- User-definable parameters
- Visual ITEC: user-definable operator interface
- Automatic multi-site expansion
- Scope function
- V and I waveforms and timing on all channels
- Real-time diagnostics
- Curve traces

Extendable software

- Equipment control for multiple test cells
- Post-processing
- Dynamic part average test
- Static part average test
- Moving limits
- Nearest neighbourhood residual

Extreme flexibility options:

- μPFM: floating mV meter (30 mV / 300 mV / 3 V)
- DCM: digital capacitance meter (0.3 / 3 / 30 / 300 pF)
- μMUX: multiplexer 4 x 24 pins for multi-site test

Specifications

Maximum supply and current per channel

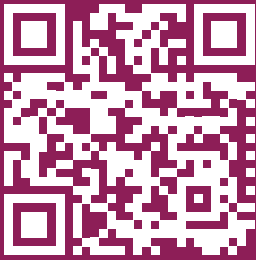
- 400 V / 3 A

Small footprint

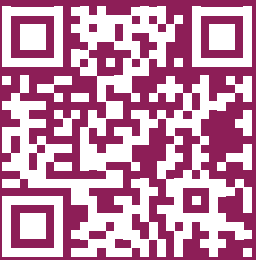
- 600 x 665 x 1235mm

Other

- Extendable test heads for adding handlers (max 4)
- Maximum: 12 leads
- Voltage: 220-240 VAC +/- 5%, 1-phase
- Current: Fused on 16 A
- Frequency: 50/60 Hz +/- 0.5 Hz
- Handler Interface: GPIB, TTL, RS232, TCP/IP
- Optional SECS/GEM interface following SEMI standard



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