TF-3050

SERIES 2 LDP15TQ THICK FILM CHIP TRIMMER



A New Generation Platform for Trim and Test Thick Film Chip Components

- Capability to trim from milli-ohms (mΩ) to Mega-ohms (MΩ)
- Ability to trim substrates with resistors up to size 0.04"X0.02"
- Fully redefined user friendly GUI software
- Theta adjustment for clamping device for precise alignment
- Twin magazines to store additional substrates and reduce machine idle time.

TF-3050 SERIES 2 LDP15TQ THICK FILM CHIP TRIMMER - SPECIFICATIONS

Optical System

Beam Positioned: Precision high-speed galvanometer

Field Size: 12 x 90mm
Resolution: 1.5µm
Repeatability: 2.5 µm

Spot Size: 18 - 40 μm (standard 1064nm)
 Focus Len: 125 mm flat telecentric type

Laser System

■ Laser Type: Diode pumped ND: YAG Lasers

Output Power: 12W (Q-Switched Avg. Power @ 10 KHz)

Wavelength: Standard 1064nmPulse Width, nominal: 150 nsec

Power Measurement: Thermal pickup

X/Y Part Positioning

Type: Dual carriage system with high speed motor

X Axis: Driven by high speed linear motor (carriages)

- Resolution: 1um

■ Travel Speed: 600 mm/s

Prober & Axis: DC brushless servo motor

● Theta Control: Motorized theta control

Part Transfer: AC motor controlled pick and place arms

Part Load/Unload: Dual magazines with elevators

Software

WinLts 2 Windows XP Application Software

Measurement System

Dual Mode: Force Current & Force Voltage

Range: $0.1\Omega \sim 30 M\Omega$, $10 m\Omega$ Optional

Accuracy: 0.02% Midrange

■ Repeatability: 0.01% Midrange

Resolution: 0.005%

Measurement Time: 50 μsec

■ Calibration Standards: 6 pcs 0.01%

■ Guard Drive Current: 100 mA

Guard Offset: 1 mV

Physical Characteristics

Dimensions: 2125 mm x 966 mm x 1858 mm

Weight: 1000kg



Utilities Requirements

● Power: 220 V AC, single phase, 10A (50/60Hz)

■ Air: 80~100 psi / flow rate 10 cfm

● Vacuum: 100 CFM factory vacuum for debris removal

and substrates retention

Note: Laser Power supply not included

Controller

 Intel Core 2 duo processor for main application (Window)

Pentium processor for trimmer application and motion control

Special Features

 Dual magazine with two sets of magazines to reduce the machine idle time

 Improved pick up arm for efficient pick up and placing of substrates

Completely redesigned GUI improves machine productivity

Switching Matrix

Pins per Card: 16

Lines per Pin: 3 (Force, Sense or Guard)

Cards per System (Standard): 10 pcs std, 12 pcs

maximum

Switch Type: Dry Reed RelayContact Life: 1 Billion Cycles

Insulation: > 10 GΩ

Switching Time: 200 μsec



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