## **TF-3050G**

### SERIES 2 BL8S THIN FILM CHIP TRIMMER



# A New Generation Platform for Trim and Test Thin Film Chip Components

- Capability to trim from ohms ( $\Omega$ ) to Mega-ohms ( $M\Omega$ )
- Ability to trim substrates with resistors up to size 0.04"X0.02"
- Substrate size available for 50mmX60mm,60mmX70mm
- Theta adjustment for clamping device for precise alignment
- Twin magazines to store additional substrates and reduce machine idle time.

#### TF-3050G SERIES 2 BL8S THIN FILM CHIP TRIMMER - SPECIFICATIONS

#### **Optical System**

Beam Positioned: Precision high-speed\_galvanometer

Field Size: 12 x 75mm
Resolution: 1.5µm
Repeatability: 2.5 µm

Spot Size: 8-10 μm (standard 532nm)
 Focus Len: 102 mm flat telecentric type

#### Laser System

• Laser Type: Diode pumped Q-switched

• Output Power: 1.5W (Average @ 20 KHz)

Wavelegth: Standard 532nm

● Model: TEMoo

Frequency Range: 1-100KHzPulse width, nominal: 7 nsec

Power Measurement: Thermal pickup

#### X/Y Part Positioning

 Type: Dual carriage mounted on independent air cooled brushless DC servo motor stages

X Axis: Driven by high speed linear motor (carriages)
 - XY Resolution: 1 um

Travel Speed: 600 mm/s

 Prober: High speed linear motor with pneumatic counter balance and motorized theta

Theta Control: Motorized theta control

Part Transfer: Pneumatically controlled pick and place arms

Part Load/Unload: Dual magazines with elevators

#### 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: 1490mm x 1028mm x 1843.5mm



#### **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

#### Controller

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

#### Software

DOS Application Software

#### **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 Relay
 Contact Life: 1 Billion Cycles

Contact Life: 1 Billion Cycles

• Insulation: > 10  $G\Omega$ 

● Switching Time: 200 µsec



Laser Tek Singapore Pte. Ltd. 33 Ubi Avenue 3, #02-42/43, Vertex, Singapore 408868 Tel: (65) 6742 8260 Fax (65) 6742 3719 http://www.lasertek.com.sg



Laser Tek Taiwan Co., Ltd No. 248-12, Shin Sheng Rd., Chien-Zhen District. Kaoshiung, Taiwan 806, R.O.C. Tel: 886-07-8159877 Fax: 886-07-8156711 http://www.lasertek.com.tw