

MT93xx

SO Gravity Handler



the Facts >

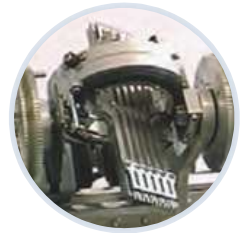
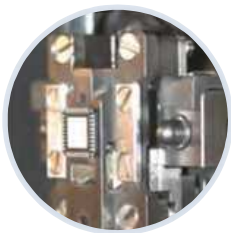
- > 4 contact sites
- > tri-temp from -55 to 155° C
- > dedicated for SO and QFN packages
- > up to 20,500 UPH maximum throughput
- > contacting: standard, high frequency and Kelvin
- > tube and metal magazine loading and unloading
- > installed MT93xx base > 1,800 systems
- > large soak capacity with drum version

Handling Solution for

- > medium and small size SO and QFN packages with a pitch down to 0.4mm
- > device length from 3 to 22 mm

Applications >

- > automotive power devices
- > RF and communication
- > logic, amplifier and linear
- > MEMS and temperature



MT93xx

SO Gravity Handler



1 Base System

MT93xx general/ MT 9308

MT9320 specific

1.1 Available Versions:

- tri-temp
- 2 or 4 contact sites
- loading / unloading: tube or metal
- 4 contact sites
- tube to tube

2 Packages

MT93xx general/ MT 9308

2.1 Conversion Kits:

- small SO packages: SO150, SO209, TSSOP173, TSSOP240, MSO118
- large SO packages: SO300, SO370
- leadless packages: MLF3 - MLF10

2.2 Min and Max Size of Packages:

- device width: 3 to 15 mm
- device length: 3 to 22 mm 3

2.3 Min Lead Pitch:

- down to 0.4 mm

3 Loading/ Unloading

MT93xx general/ MT 9308:

MT9320 specific

3.1 Loading Material:

- plastic and metal tubes, metal magazines

3.2 Available Loader Types/ Capacity:

- tube
- metal magazines
- tube only

3.3 Unloading Material:

- tubes: tube dimension from 480 to 540 mm length and max: 20mm width
- magazines: Metal magazines from 520 to 540 mm length and max. 62 mm width
- tubes: 180 to 540 mm
- max. width: 20 mm
- max height: 8 mm

3.4 Available Unloader Types/ Capacity

- tube: max. 50 tubes
- metal magazine: max. 20 metal magazines (for 5mm thick magazines)
- 50 tubes (for 8mm wide tubes)

4 Contacting:

MT93xx general/ MT 9308

MT9320 specific

4.1 Number of Contact Sites/ Versions:

- 2 or 4 site

4.2 Contact Modes/ Configuration:

- ping pong, alternating, parallel synchronous, asynchronous and others

4.3 Applications

- short contact (tri-temp)
- standard contact (including thermal insulation)

4.4 Available Contact Socket:

- Multitest offers contact sockets for all package versions and application, i.e. high frequency, Kelvin and MEMS test

5 Temperature Performance

5.1 Temperature Range:

- - 55°C to +155°C

5.2 Temperature Accuracy:

- +/- 5° C for PTB application
- +/- 2° C for STD application

5.3 Temperature Stability:

- +/- 0.5° C

6 Number of Bins

6.1 Tube Unloader:

- 4 bins

6.2 Metal Magazine

- 4 bins total or 1 bin per magazine track

7 Docking

7.1 Docking Height

- 870 mm floor to center of contact unit

7.2 Docking Compatible with:

- Multitest or third party

8 Performance

MT93xx general /MT9308

MT9320 specific

8.1 Throughput at 0 Test Time:

- 8,200 uph for SO150, 5.1mm, asynchr. mode, quad site
- 20,500 uph for SO15, 5.1mm; asynchr. Mode, quad site

8.2 Index Time:

- 0.55 sec for standard
- virtual index time for multiple contact sites: 0.75 sec for plunge to board

9 Facility Requirements

9.1 Power Supply (Voltage, Phase):

- 200V to 240V, 50Hz/ 60Hz, 16 Amps

9.2 Power Consumption:

- max 3,000 W

9.3 LN2 Consumption:

- 15l/ h

9.4 Compressed Air Consumption:

- up to 470l/ min (depending on configuration)

9.5 Mobility/ People to Move:

- mobile on casters
- 1 person to move

9.6 Weight:

- typically: 320 kg (280 kg to 370 kg, depending on configuration)

10 Compliance and Standards

- CE, SEMI S2-02.00, SEMI S8-06.00

All performance figures such as MTBF, MTBA, Uptime, Yield, Jam Rate, Life Span, Cleaning Cycles etc. can vary with specific package type, test program and / or specific application environment. They assume that only original Multitest spare and consumable parts are used, recommended maintenance intervals and procedures are respected, operators/maintenance technicians have successfully participated in formal equipment training by Multitest to the appropriate level, and only Multitest approved software is used on the systems. Multitest assumes no warranty or liability if any of these requirements is not met. All listed data are for information only. For binding specification please contact your sales person

MULTITEST GERMANY
Rosenheim, Tel.: +49-(0)8031-406-0
Mail Sales: sales@multitest.com

MULTITEST SINGAPORE
Tel.: +65-6408-8408
Mail Sales: salesasia@multitest.com

MULTITEST USA
Santa Clara, Tel.: +1 (408)-988-6544
Mail Sales: salesusa@multitest.com


an Xcelerate company

MT93xx

SO Gravity Handler

and third party



All performance figures such as MTBF, MTBA, Uptime, Yield, Jam Rate, Life Span, Cleaning Cycles etc. can vary with specific package type, test program and / or specific application environment. They assume that only original Multitest spare and consumable parts are used, recommended maintenance intervals and procedures are respected, operators/maintenance technicians have successfully participated in formal equipment training by Multitest to the appropriate level, and only Multitest approved software is used on the systems. Multitest assumes no warranty or liability if any of these requirements is not met. All listed data are for information only. For binding specification please contact your sales person

MULTITEST GERMANY
Rosenheim, Tel.: +49-(0)8031-406-0
Mail Sales: saleseurope@multitest.com

MULTITEST SINGAPORE
Tel.: +65-6408-8408
Mail Sales: salesasia@multitest.com

MULTITEST USA
Santa Clara, Tel.: +1 (408)-988-6544
Mail Sales: salesusa@multitest.com



MT93xx

SO Gravity Handler



All performance figures such as MTBF, MTBA, Uptime, Yield, Jam Rate, Life Span, Cleaning Cycles etc. can vary with specific package type, test program and / or specific application environment. They assume that only original Multitest spare and consumable parts are used, recommended maintenance intervals and procedures are respected, operators/maintenance technicians have successfully participated in formal equipment training by Multitest to the appropriate level, and only Multitest approved software is used on the systems. Multitest assumes no warranty or liability if any of these requirements is not met. All listed data are for information only. For binding specification please contact your sales person

MULTITEST GERMANY
Rosenheim, Tel.: +49-(0)8031-406-0
Mail Sales: saleseurope@multitest.com

MULTITEST SINGAPORE
Tel.: +65-6408-8408
Mail Sales: salesasia@multitest.com

MULTITEST USA
Santa Clara, Tel.: +1 (408)-988-6544
Mail Sales: salesusa@multitest.com

