Panasonic CONNECT

Ensure Passive Component Integrity

MACHINE SETUP

LCR meter shared by front and rear sides.
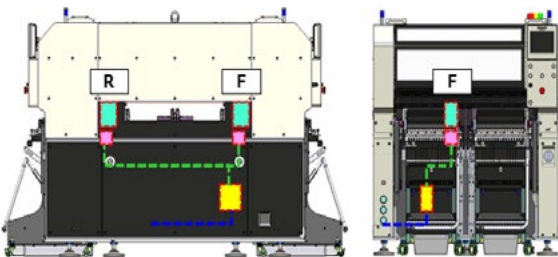
Front/Rear Option Selected

- ▢ Check Unit x 2 Units
- ▢ LCR Head x 2 Units
- ▢ LCR Meter x 1 Unit [shared]
- ▬ ▬ ▬ LAN Cable
- ▬ ▬ ▬ Camera Link Cable

Component Check Events

1. After production starts (including changeovers)*
   During changeovers, common setup components already checked won't be checked again
2. After splicing is detected
3. After feeder reinsertion is detected
4. After restarting from component run-out
5. Upon selecting manual test
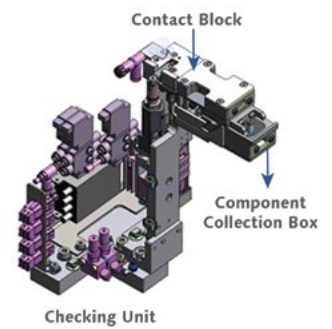
Test Component Management

Components selected for verification are automatically placed in the LCR checking unit (probe.)
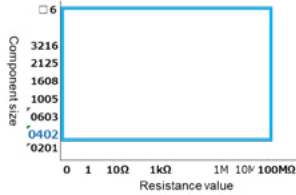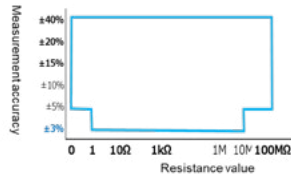

MANUFACTURING SOLUTIONS
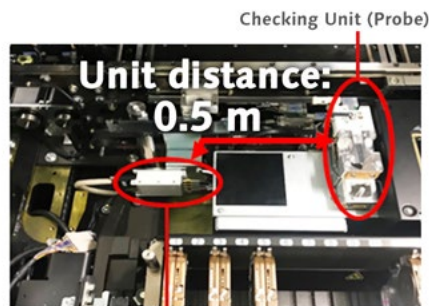
RANGE

Size(mm): 0402 ~ 6 x 6 x 5 Time: ≤ 5 sec
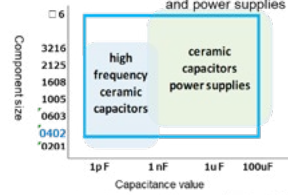
Resistors ◆ **Appl. size** Support low size -0402
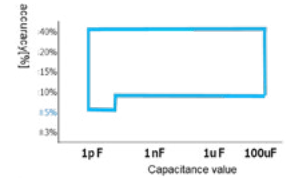◆ **Resistors** Supports low resistance
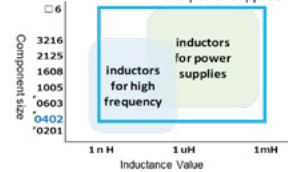
◆ **Accuracy** Up until 1 ~10MΩ with ± 3 %

Capacitor ◆ **appl. size** Supp. as small as 0402
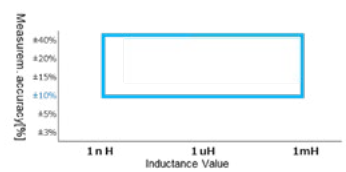◆ **capacity** Tests both high freq. and power supplies

◆ **accuracy** Capacitance Range: Panasonic ≈ ASM

Inductor ◆ **appl. size** Supp small size 0402
◆ **inductance** Tests both high freq. and power supplies

◆ **accuracy** High accuracy at wide range

BENEFITS OF BUILT-IN LCR CHECKER

Labor savings	≤5s test time (vs 30s by hand)
Cost Containment	Test prior to placement from new reels to guard against barcode label & human errors
Product Integrity	Guard against counterfeit components
Faster NPI	Accelerate NPI by not having to wait until ICT has completed test of first board (typ. 45 min)
Ergonomics	Able to test microchips (≥ 0402mm)
Test	Test components that ICT and Flying Probe cannot due to high density PCB designs
New Products	5G, IoT, ADAS demand for low impedance devices
Traceability	High value products demand tracing validation of correct components loaded & placed
Digitalization	Electronic vs paper logging of tests
Factory of the Future	Leveraging most advanced technology to win new business & lower costs

Models Supported:

New machine purchase models supported: NPM-D3A, W2, TT2 + X-series

Field retrofit models supported: NPM-W, D-series, and TT can be upgraded

Heads Supported: beams with 16, 12 and 8 NH mounted

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