MAGNALYTIX™

MGX OE Test Set - QFN 10

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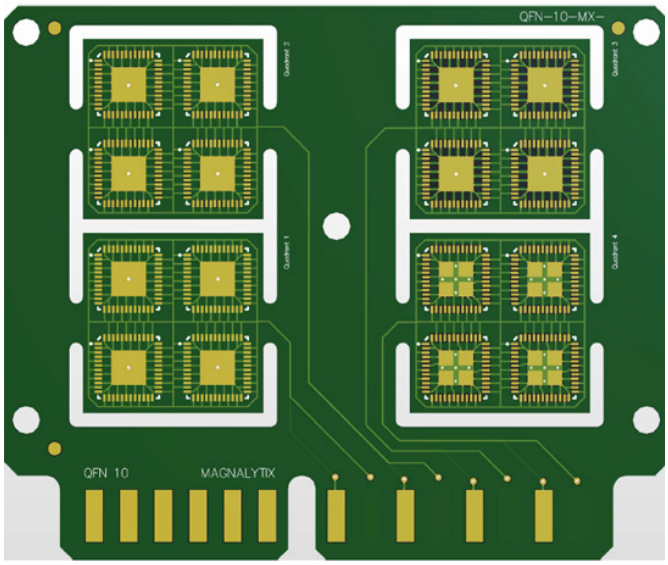
Each MGX OE Test Set includes the substrates and components to build complete assemblies needed for 1 standard testing cycle and provide the objective evidence needed to meet IPC J-STD-001G.AM 1.

QFN 10 Test Set Includes:

- 10 – MGX OE Test Cards
- 160 – MGX QFN48T.5-F-ISO



MGX QFN 10

Practical Uses

The QFN 10 SIR test board finds use in Materials Characterization and Process Control.

- QFN-48 is one of the more challenging components to clean. With a standoff gap lower than 50µms, flux residues bridge the lands and thermal lug. The residues tend to be active due to poor outgassing channels. The board is a good study for companies that build with No-Clean solder materials and do not clean.
- Quadrant 1 bare board design uses Solder Mask Defined pads.
- Quadrant 2 bare board design uses Non-Solder Mask Defined pads.
- Quadrant 3 bare board design uses Non-Solder Mask Defined pads.
- Quadrant 4 bare board design uses Non-Solder Mask Defined pads with a cross-hatched thermal lug patterned with solder mask web. Thermal vias are placed at the corners of the solder mask webs and in the center of the thermal lug.
- The 7mm x 7 mm QFN with 0.5 mm pitch leaves a low standoff gap provides a strong SIR signal due to the level of residue and difficulty in cleaning.

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SIR Test Parameters

QUADRANT 1

EDGE PIN 1 = ODD PADS + GND LUG

EDGE PIN 2 = EVEN PADS

QUADRANT 2

EDGE PIN 3 = ODD PADS + GND LUG

EDGE PIN 4 = EVEN PADS

EDGE PIN 3 = ALL RES PAD 1

EDGE PIN 4 = ALL RES PAD 2

QUADRANT 3

EDGE PIN 5 = ODD PADS + GND LUG

EDGE PIN 6 = EVEN PADS

QUADRANT 4

EDGE PIN 7 = ODD PADS + GND LUG

EDGE PIN 8 = EVEN PADS

EDGE PIN 7 = ALL RES PAD 1

EDGE PIN 8 = ALL RES PAD 2

SIR is the Answer for Objective Evidence

IPC J-STD-001G.AM 1 no longer accepts ROSE data as adequate objective evidence of product quality. MAGNALYTIX has developed the OE-line of testing machines to address the challenge facing every electronics assembly shop manufacturing to meet the updated standards.

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