



TECHWISE FOGANG(FTC)



TECHWISE(Fogang) Circuits Limited

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CORE COMPETENCY

- » High-volume Double-layer and Multi-layer Printed Circuit Boards

KEY DATA

- » 600,000 square feet
- » Maximum Panel Size: 24" × 35"
- » Maximum Board Thickness: 280 mil
- » Aspect Ratio: 12:1
- » Layer Count: 2-16
- » Tracks & Gaps:
 - 3/3mil (External) & 3/3mil (Internal)
- » Minimum Core Thickness:
 - 2.5 mil (ex copper)
- » Blind and Buried Vias
- » Back Drilling
- » Controlled Impedance and Differential Impedance
- » Multiple Finishes
- » Edge Plating



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CERTIFICATIONS

- ▶ ISO9001
- ▶ UL 796
- ▶ ISO/TS16949
- ▶ ISO14001
- ▶ ROHS

PHYSICAL ATTRIBUTES

- ▶ Inner Copper Weight0.25-6oz
- ▶ Outer Copper Weight0.25-6oz
- ▶ SMT Pitch12 mil
- ▶ Core Thickness.....2.5- 96 mil
(ex copper)
- ▶ Board Thickness5-280 mil
- ▶ PTH Aspect Ratio12:1

CAD/CAM

- ▶ Orbotech Workstation
- ▶ Orbotech Laser Plotter

CAPACITY

- ▶ Inner Capacity: 1260,000 square feet per month
- ▶ Outer Capacity: 560,000 square feet per month

PROCESS CAPABILITY

- ▶ Line / Space
 - Print / Etch Inner Layer.....3/3mil
 - External Layer.....3/3mil
- ▶ Impedance Control.....8%
- ▶ Drilled Hole(min)/Buried Via.....8mil
- ▶ Solder Mask Dam..2 mil for Matte Ink
- ▶ 3 mil for Glossy ink
- ▶ Board Thickness Tolerance8%
- ▶ Warp 0.7% (min)
- ▶ Internal Annular RingDHS+10mil
- ▶ External Annular ring.....DHS+10mil
- ▶ Hole to Edge Tolerance±5mil
- ▶ Feature to Edge Tolerance ±5mil

MATERIALS

- ▶ FR4 (Tg 140°C, 150°C and 170°C), Lead Free and Halogen-Free Material
- ▶ CEM-3
- ▶ Low Loss Material - Rogers Getek,
- ▶ Teflon, BT, FR 408 and IS620
- ▶ Aluminum/steel base



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SURFACE FINISHES

- ▶ OSP& HT OSP
- ▶ Immersion Gold
- ▶ Carbon Ink
- ▶ Peelable mask.

SOLDER MASK

- ▶ Taiyo, Tamura, Probimer, Greentop, Coates

TEST EQUIPMENT

- ▶ AOI
 - Orbotech/Screen AOI Machine
- ▶ E-Test - Mason E-Tester, Kaima E-Tester
 - ATG E-Tester,
 - ATG and MicroCraft Emma Fly Probe Tester
- ▶ Lab. Testing
 - Cross-section
 - PerfecTest
 - IST and Thermal Cycling
 - CAF



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CORE COMPETENCY

- ▶ Board Cutting : ACS Auto Sawing Machine
- ▶ Inner D/F : DANTYAN Laminator& HENDA Laminator SEMI Auto Exposer Machine C'Sun & ORC Exposer Machine
- ▶ DES : UCE, AMPOC DES Line and Multi-line OPE
- ▶ BROWN Oxide : UCE , AMPOC Oxide Line
- ▶ Lamination : YAM CHEN Pin Lamination Machine Mass Lamination with YAMCHEN Machine Multi-line OPL
- ▶ Drilling : Hitachi Machine
- ▶ Outer D/F : SCHMID laminator SEMI AUTO Exposure Machine C'Sun & ORC Exposure Machine
- ▶ SES : AMPOC, UCE SES Line Solder Mask : Group Up Electrostatic Spray Coating Machine C'Sun& ORC Exposure Machine
- ▶ Profiling : ORIENTAL Routing Machine NCV-600 / Schmoll V-cut Machine