SERFLEX LLC

FLEXIBLE PRINTED CIRCUITS & ASSEMBLIES

CORE PRODUCTS & SERVICES

- Flexible Printed Circuits
- UHDI Flexible Printed Circuits (Ultra High Density Interconnects)
- Flexible Polyimide Heaters
- Component Assembly
- Complete Line-Up of Post Assembly Services
- Quick Turn Prototypes thru Production

FLEXIBLE CIRCUIT FABRICATION

- IPC 6013 Types 1, 2 & 3 (Single sided, Double sided & Multilayer)
- IPC Class 3 Capability
- Fine Line Imaging
- Laser Processing
- Complete DFM & Engineering Support Throughout

UHDI FLEX CAPABILITIES

- Trace / Space down to 18 um
- Micro-vias down to 15 um
- Ultra-Thin Dielectrics down to 12 um
- Designed for SWaP constrained Electronics
- Ideal for Aerospace Applications

FLEXIBLE POLYIMIDE HEATERS

- Custom designed for your Application
- Precision Temperature Controlled
- Uniform Heat Distribution
- Ultra-thin Lightweight constructions
- With Integrated Sensors, Thermostats & RTD

MARKETS SERVED

AEROSPACE / DEFENSE / MEDICAL / SPACE

CERTIFICATIONS & APPROVALS

ISO9001 / ITAR / IPC-A-610 / IPC-J-STD

SERFLEX LLC / 8357 CANOGA AVE. CANOGA PARK CA. 91304 / 818-949-2641 / WWW.SERFLEX.US / SALES@SERFLEX.US

SERFLEX LLC

TECHNICAL CAPABILITIES

CAPABILITY	DESCRIPTION
Circuit Types	Single-Sided • Double-Sided • Multilayer Flexible Circuits
IPC Construction	IPC-6013 Type 1 • Type 2 • Type 3
Technology	Standard Flex • HDI • UHDI
Fine Line Capability	Down to ≤18 µm Line / Space*
Microvias	Down to ≤15 µm*
Capture / Land	Down to ≤45 µm*
Layer Count	Up to 8 Layers*
Copper Options	Rolled Annealed (RA) • Electrodeposited (ED) • Ultra-Thin Copper
Dielectrics	Polyimide • Adhesiveless & Adhesive-Based Constructions
Materials	DuPont Pyralux® • Panasonic FELIOS™ • Other Engineered Laminates
Surface Finishes	Gold (DIG, Electrolytic Hard Gold) • Tin (Immersion, Electrolytic)
Special Technology	SERFLEX SELECT™ Selective Metallization*
Flexible Heaters	Custom Polyimide Flexible Heater Circuits
Assembly	SMT • Manual Soldering • Component Installation
Value-Added Services	Potting • Conformal Coating • Strain Relief • Serialization
Testing	Open / Short Testing • Functional Testing Available
Quality Inspection	IPC-A-600 / IPC-A-610 • Class 2 & Class 3 Applications
Prototype Support	Quick-Turn Prototypes • DFM Support • Production-Intent Prototypes
Production	Prototype through Production Quantities
Quality System	ISO 9001:2015
Defense Programs	ITAR Registered
	Los Angeles, California • USA

FLEXIBLE POLYIMIDE HEATERS

CAPABILITY	DESCRIPTION
Design	Custom Designed for Your Application
Construction	Ultra-Thin, Lightweight Polyimide
Heating	Precision, Uniform Heat Distribution
Controls	Integrated Sensors, Thermostats & RTDs
Value-Add	Leads, Assembly & Component Integration
Support	Prototype Through Production

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