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RIGID, FLEX & RIGI-FLEX PRINTED CIRCUIT BOARDS (PCBs)
OUR MISSION STATEMENT

Welcome to PNC Inc.

For over 45 years, PNC Inc. has been a leading manufacturer of superior rigid printed circuit boards (PCBs). Located in Nutley, NJ, we are the largest manufacturer in the Northeast. Innovation, Quality and Service are of prime importance to us.

PNC Inc. specializes in working side-by-side with visionary engineers in the RF, Microwave, Aerospace, Defense, and Satellite industries (among others) to create solutions for ever-advancing concepts and designs. We venture to take on demanding and challenging technologies, as well as continuing to expertly employ the most well-established PCB manufacturing practices.

PNC's service and technological staff are second to none. Our tightly managed processes are all handled "in-house," allowing for unmatched product excellence - always at a fair price.

Please contact us today and experience for yourself that PNC Inc. is your best all-around PCB source for QUALITY AND VALUE!

We look forward to hearing from you,

SAM SANGANI
Managing Director
MANUFACTURING CAPACITY

Prototypes from 24 hour turnaround to high volume production from USA and/or China.

Our Modern 38,000 sq. ft. manufacturing plant with multi-million dollar capital equipment investments with the latest equipment and technology is capable of producing over 600 panels or 2000 sq. ft per day.

PRODUCTION CAPABILITIES

- Layers count: 1 to 40
- Min Line width/spacing(mil): 3/3 mil
- Min PAD Size for test 3 mil
- Aspect Ratio: 14:1
- Board thickness: 0.020" - 0.250"
- Min. Core Thickness: 0.005"
- Max Panel size: 18”x24” Multi-layers, 22”x26” 2L
- Material: FR-4, High Tg FR-4, Polyimide, Halogen free, High Frequency (Rogers, Arlon, Taconic, Nelco), Metal Core PCBs (AI substrate)
- Surface Treatment: HASL, ENIG, ENEPiG, Immersion Silver, Immersion Tin, Flash Gold, Gold-Finger, OSP, Lead free HASL etc.
- Smallest Drill Size: Mechanical-0.006", Laser-0.003"
- Minimum Smallest Finished hole Size: 0.008"
- Impedance Tolerance: 5%
- Solder Mask Dam between SMT Pads: 2.5 mils
- Differential Impedance
- Blind and buried vias, Filled Vias, Via in PADS
- Plated Edges, Plated Edge Holes, Milling
- High Copper weight
- Solder Mask Registration
- V Score, Jump Score, Counter-sink, Counter-bore, Bevel, Milling
- 0.4 mm pitch BGA
- Expert technical assistance available
- Online live order tracking via our Website
- UL approved for High Tg
SMT STENCILS

ACCUFRA ME®
PNC Inc. also manufacturers high quality LASER CUT Solder Paste Stencils. To make laser cut stencils affordable, PNC Inc. has developed a unique "Re-Usable" Frame called "ACCUFRA ME®" (Trademark # 2426024, Patent # 5983790).

FRAME SIZES
- 12x17, 20x20, 29x29, Custom Sizes upon Request

TRADITIONAL MESH MOUNT STENCILS
PNC Inc. offers an array of Traditional SMT Stencils from Tubular to Cast Aluminum frames.

FRAME SIZES
- 10x10, 12x12, 15x15, 12x17, 20x20, 29x29

SMT STENCIL DESIGN
PNC Inc. uses multiple CAM Stations to edit your Gerbers per your specifications.

DESIGN EDITS
- Pad reductions/increases
- Home Plate Design
- Panelization/Array
- Glue Dot Design
- Melt Design
- DEK offsets
- Cross Hatching
- Pad Trimming

FOIL THICKNESSES AND MATERIAL

FOIL THICKNESSES
- .003, .004, .005, .006, .007, .008, .010

FOIL MATERIAL
- 304SS, PHD, Invar
MEMBRANE SWITCHES & GRAPHIC OVERLAYS

- Material: Polycarbonate, Mylar, Vinyl, PVC
- Thickness: 0.005" to 0.020" Standard (special thickness upon request)
- Die Cutting: Any Shape - Any Size
- Circuitry Layers: Single & Multi-Layer
- Embossing: Pillow-Perimeter, LED lens & Custom Embossing
- Window: Clear, Semi-Transparent, Filter, Dead Front, Selective texture
- Tactile and non-tactile switch closures
- Tactile Feedback Domes: Stainless Steel, Nickel, Gold Plated or Poly with 150 to 750 grams trip force
- LEDs: Surface or embedded LEDs
- Tail Connectors: Ziff, Berg or AMP
- Single and multiple tail circuits termination
- Printed circuit board integration
- ESD, EMI, and RFI shielding including ITO
- Changeable graphics windows
- Custom Color Match
- Support Panel: Plastic, Aluminum, Steel
- Design help to customers

OUR PCB ASSEMBLY CAPABILITIES

- Surface mount and mixed technology
- X-ray & AOI inspection
- Discrete 0201, Micro BGA placement
- BGA removal and replacement
- Full Functional Testing
- IC (Device) programming
- Water soluble and no-clean chemistries
- Conformal coating
- Potting services
- Cable and wire harness assembly
- RoHS as well as leaded assembly
- Burn-in, temperature & humidity cycling
- Pin insertion and press fit connectors
- Higher level assembly - box build and configuration of finished product
- Part Procurement: full turnkey, full consignment or partial consignment
- IPC-A-610 class II and III standards
- ESD compliant to ANSI/ESD S20.20-20
- Sheet metal and plastic enclosures
CONTINUOUS INVESTMENT

Through the various economic cycles in the PCB industry, PNC has continuously grown and provided unparalleled quality, technology and service to our customer by following three overall philosophies:

- **EQUIPMENT, PEOPLE AND PROCESSES**
  - In the last 3 years PNC has invested over $2.5 million in new facilities and equipment
  - We have dedicated our team to Learn Management techniques which are providing a foundation for high-paced growth

- **FOCUS ON FINANCIAL STABILITY**
  - We have never had an unprofitable year in our existence
  - The past 5 years had a compounded growth of 15%
  - Our growth for the next 5 years is projected to be at 25%

- **UNWAVERING COMMITMENT TO OUR CUSTOMERS**
  - Our on-time delivery for the last 15 years has been nearly 99%
  - Our quality performance is above 99%, internally and externally
  - We continuously introduced new technologies and services
  - We now offer free technical support to help our customers in the design stage

We fully intend to continue this effort to service you better in the coming decade.

PNC’s Certifications:
- ISO9001:2008 Certified
- ITAR Registered
- Small Business
- MIL-PRF-55110 & MIL-PRF-31032
- UL approved
- RoHs complaint

DIRECT OUTSOURCING FROM CHINA

**SEAMLESS TRANSITION:** Quick turn prototype/Mid volume from domestic shop, volume production from offshore.

**TECHNOLOGY:** PNC has collaborated with multiple PCB Shops in Southern China to handle a wide range of technologies.

**QUALIFICATION:** Formal qualification procedure and periodic re-certification processes are in place to ensure our China partners are adhering to quality standards you are accustomed to.

**SERVICE:** With local Offices in China and Hong Kong, our own personnel will oversee all PNC’s work and delivery schedule. Our employee’s will physically be on site during the manufacturing process.

**PRICE:** We offer most competitive prices.

**COMMUNICATIONS:** PNC’s China and HK offices are open 24 hrs a day with English speaking employees.

**QUALITY & DELIVERY ASSURANCE:** All PCB orders coming from China will go through our USA plant first as we will perform qualification check prior to shipment.

**DELIVERY:** A majority of our China partners offer 3 week lead time for production runs. If for any reason, shipment may be delayed, PNC will manufacture your boards in house with no additional charges to meet your scheduled ship date.