

BRIGITFLEX, a woman owned & operated Mid-West circuit board fabricator, with a focus on specialty materials designed for the antenna industry. Our extensive experience with multilayer, flexible, and very large-scale formats allow us to convert complex design requirements on difficult to handle materials.

Our **AS9100D/ISO 9001:2015** certified facility uses multiple in-process checks that are developed into measurable parameters that comply with IPC- 6012 and IPC- 6013 to ensure the end product will meet the design parameters and be delivered within the time frame and budget established.

Documentation supplied with all completed orders includes certificates of compliance, material certifications, GAP reports for all layers, and any additional requirements requested at the time of purchase if needed.

A Few of Our Specialty Process Capabilities Include:

- Embedded materials (Ticer, Ohmega, Faradflex).
- Large format R-cards and flex.
- Blind and buried vias.
- Sequential laminations.
- Fusion bonding.
- Unique material applications.
- Plasma and glass etch.
- Expedited lead times for your immediate prototype projects.
- Custom built shipping packaging to protect delicate circuits.
- Honeycomb and Foam stack ups.
- New materials thin & thick from all vendors.
- Lamination of custom circuit stack ups in the size of 4' x 8'
- Lamination of circuits to curved surfaces.
- Laminate using popular composite materials like carbon fiber and cyanate ester quartz.
- Circuits laminated to honeycomb and foam dielectrics.
- Wide variety of metals and resistive films etched to circuits or patterns embedded within composite structures.
- Large light weight design.

New emerging ideas ahead of the competition can produce parts that do not fit the methods of other shops. These are just a few of the reasons why BRIGITFLEX is your best choice for unique and hard to source products. Brigtflex Inc. has purchased a 60-inch-wide etcher from Chemcut, the United States' leading manufacturer and supplier of Develop/Etch/Strip equipment. The new etcher will be included with their Exellon 154L Vision Driller & Router System, along with their state-of-the-art Autoclave machine. Brigtflex, Inc. stated "We pride ourselves

in being able to produce our own materials in our presses and adapt to new prototype products and specialty materials. The new Chemcut system will allow us to continue the success Brigtflex has experienced over a 40-year history of a single owner American company.

Brigtflex has a 72" diameter autoclave to our Elgin, IL. facility. This piece of equipment allows us to embed circuits into composite buildups and structures and laminate even larger circuit material than before. We push our capabilities to larger and larger circuits and believe the addition of an

autoclave will create opportunity.

An autoclave, designed for composites, is a pressurized oven that cures epoxies and thermoplastics to a desired shape. An autoclave uses a pressure chamber to create force on a surface in any shape. This technique allows us to form our circuits to extraordinary shapes.



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