

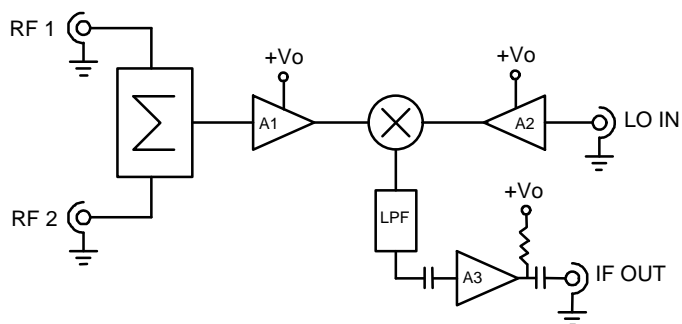
ProtoCell

Modular Prototyping System for Telecommunications, Radar, and RF Signal Processing Circuits

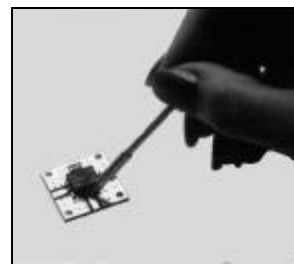
ProtoCell is a unique, modular prototyping system designed for rapid fabrication and characterization of RF signal processing circuits using small, interconnecting circuit board cells, each with a specific circuit function. ProtoCell circuit boards can be used individually, interconnected on an open rigid aluminum frame that accommodates up to 36 cells, or fit into shielded CellPax enclosures with 1, 3 or 9 cells. Each cell contains a circuit function such as a mixer, amplifier, oscillator, filter, connector, etc., which is mounted on a small circuit board that is attached to the frame or enclosure and precisely aligned with other cells.

Select from a library of circuit boards that fit a wide variety of circuit functions and component packages. The symmetric design of the circuit boards allows them to be oriented in any position for easy interconnection with other cells. RF traces between cells connect with simple solder, wire, or copper foil bridges that are quickly soldered in place. Solid ground planes and multiple plated-through holes on all circuit boards connect firmly to the metal frame to form a uniform ground plane across the entire circuit, making ProtoCell usable through 5 GHz.

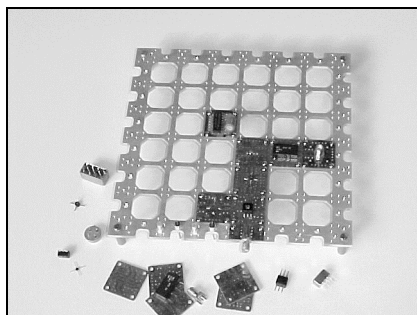
From concept.....to prototype.....in a fraction of the time and expense



Step 1: Design your circuit



Step 2: Mount components onto ProtoCell circuit boards



Step 3: Install and interconnect boards on ProtoFrame or CellPax enclosure

