PCBs for Medical Device Electronic Assemblies

Electronic Interconnect (EI) announces the availability of specialized PCBs for medical device electronic assemblies and engineering and design services to help customers plan and develop medical electronic circuit assemblies. Testing for medical electronics and circuit board products involves subjecting fully functional sub-system circuit boards to different temperature cycles to ensure a full simulation, as though the product were fully operational in a medical facility. For example, vacuum chamber testing puts the subsystem circuit board in a real environment, with temperature ranges from -40°C to +85°C for 24 to 48 hour test cycles, and it is put into non-stop operation for periods ranging from 24 to 72 hours. To achieve high reliability goals, a sound product testing strategy must be created at the prototype stage. The right PCB prototype serves as a product R&D tool, allowing the EMS provider to increase reliability by defining and building in Design for Manufacturability (DFM) and Design for Testability (DFT) procedures within the different stages of the product development.