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An Insight into Flex Circuits by Nishaidhijames

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Conventional wiring being more risky and complex has been replaced with an advanced electronic interconnection which is simple as well as reliable. flex circuits are therefore being used in electronics more and more as they are high tolerant and hence find great use in medical, aerospace and defense applications. These circuits provide the freedom of packaging geometry while retaining the precision density and repeatability of printed circuits. These circuits save both space and weight as a single one can easily replace hardboards, cables and connectors to offer more room for optimal product design. These circuits also provide a customized repeatable routing path within the assembly to eliminate the errors caused by wire routing thereby saving the testing time, rework and rejects. These circuits are easily affordable being low in cost and have increased functionality.

These circuits are used in medical diagnostics for heating, sensing and controlling solutions for liquid handling systems, non invasive temperature sensing for patient care, custom interconnect circuitry for MRI and CT scan devices and low profile integrated products for analytical equipment. The flex printed circuits are protected with a dielectric layer which saves them from all the harsh environments. These circuits find their use in space shuttle engine controls, cardiac pacemakers, implantable defibrillators, military radio, laser gyros, cochlear implants, nerve stimulators, surgical tools, chemical detectors, radar systems and many more applications. After the production all these products are carefully tested and analyzed on the grounds of thermal shock and stress testing, solder ability testing, simulate rework, moisture resistance testing, insulation resistance, elongation, tensile strength and several other parameters which are essential and require due consideration. All these products are robust and can easily withstand flexing cycles while carrying signal and power without break.

Certified by designers, these products help in making the designs easier to build without letting the performance suffer. Available in different models these circuits can easily be chosen based on physical properties, materials, surface finish, electrical characteristics, value add assemblies and quality management. These flexible circuits are high in quality and excel where quality is the prime consideration. They can also be custom designed according to clientâ€™s requirements and can easily withstand the most tough circumstances.

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