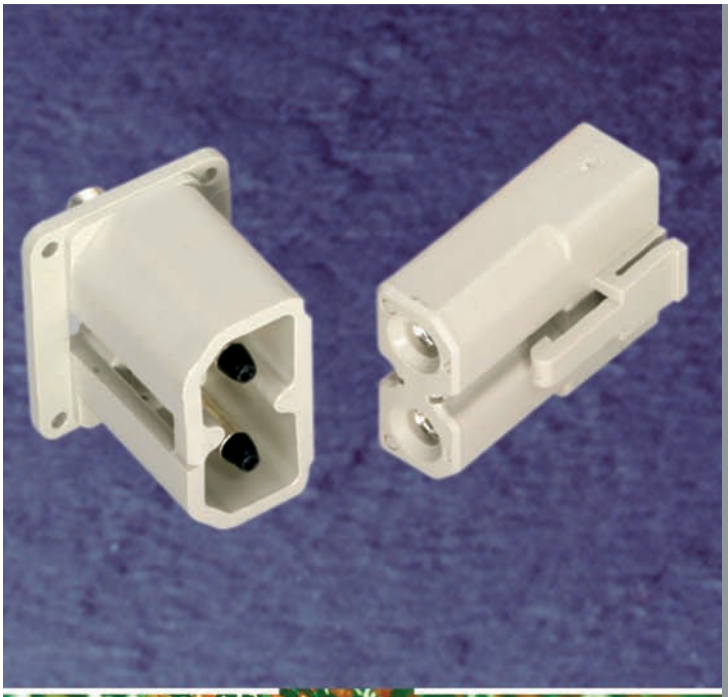
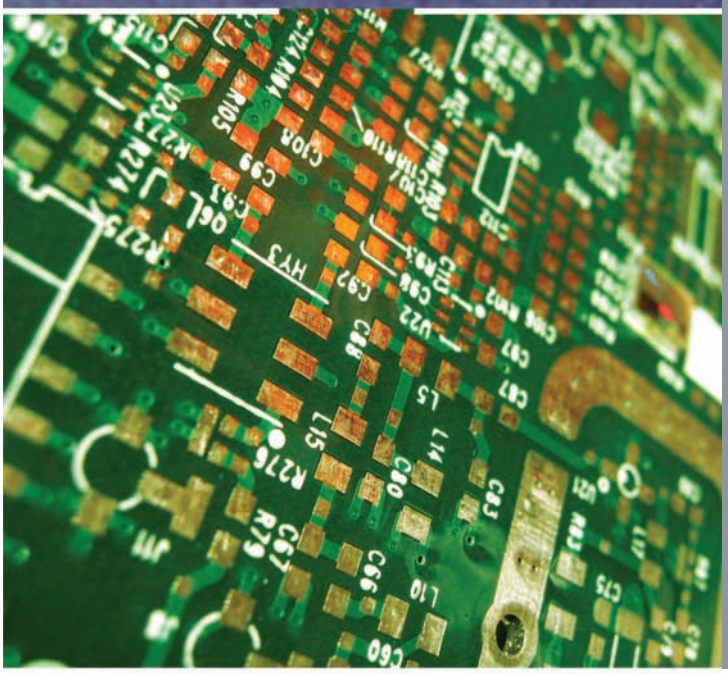
Amphenol®

Application Note

IAN-9-1





Amphe-PD

BACKGROUND

The Datacom industry is cost/design cycle driven. Their expectations are, "the next generation of product will be less costly, smaller in size and provide more processing power or storage capacity then the current generation." Consequently, component and connector companies are expected to lower component prices by as much as 10% per year.

PROBLEM

Specifically the drivers of smaller, faster and more power/capacity all cause more heat to be generated within the now smaller space. Since excessive heat will cause pre-mature failures in electronics a great deal of engineering time is spent reducing and controlling the sources of heat. One of the more obvious sources of heat is the power circuits which are made up primarily of busbars, wires and the connectors that terminate the wires.

AIO SOLUTION

AIO has developed the Amphe-PD that addresses these smaller, faster and more power /capacity issues. The new low insertion force, locking, two pole connector is UL listed at 69A and CSA listed at 55A. It is also TUV Finger Proof with a UL94-V0 fire rating. By combining parallel circuits into one, heat generation is reduced, space is saved and very importantly, reliability is increased.

In addition to the two position, 3.6mm RADSOK® rated at 55A, Amphenol now has introduced a two position 5.7mm version capable of carrying 120A continuously. This design has crimp contacts in the plug and receptacle with a crimp barrel for 4 awg wire. Contact Amphenol for more product details.