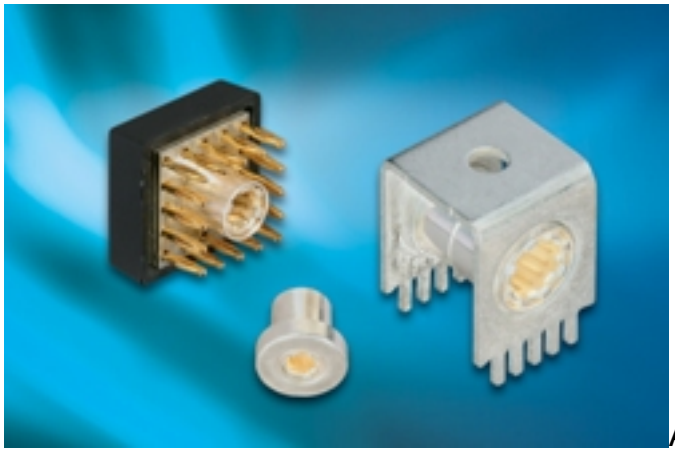
Connectors Ideal for Numerous Power Bus Applications



Amphenol Industrial now offers three compact, high-amperage, ROHS-compliant RADSOK PCB connectors for a variety of power bus applications. These applications include, but are not limited to, high-power bus assembly utilities, power-to-board servers, power-to-box servers and battery power/chargers for electric vehicles. Amphenol's proprietary RADSOK technology uses a hyperbolic, stamped grid configuration that ensures a large, coaxial, face-to-face surface area engagement to maximize heat dissipation and reduce failures.

The RADSERT, PowerBlok and PGY connectors not only feature dependable operation, but also offer more surface space within a circuit board design while eliminating threaded connection failures. They are ideal for use in high-current, single-point connections.

The RADSERT connector offers the smallest footprint of Amphenol's new PCB line, opening up the most surface space for design flexibility. This new connector gives designers the option of bringing power to the board from busbars suspended above or below the board and its components. RADSERT is offered in both press-fit and solder versions, and is available in either a 2.4 mm (0.094") size and rated for up to 35 Amps or a 3.6 mm (0.141") size and rated for up to 70 Amps. It is designed for a board thickness of 6.35 mm +/-0.0635 mm (0.250" +/-0.025") with custom sizes available for specific applications.

Also able to provide 70 Amps to a PCB, the 12.7 mm x 12.7 mm (0.500" x0.500") PowerBlok features a radial design that has a touch-proof cover and many points of contact. The connector's backplane power interface employs the use of compliant pins that are press-fit into the PCB. This helps to facilitate a solid connection and an even signal flow. The PowerBlok's small footprint is advantageous to engineers who have limited size and weight requirements for their PCB.

Available in 3.6 mm (0.141") carrying up to 70 Amps and 5.7 mm (0.224") carrying up to 120 Amps, the PGY is an orthogonal card edge connector that delivers the

highest amperage in the smallest housing. The PGY connects to the PCB through a solder reflow process. Design engineers can achieve important size and weight reductions within their guidelines without compromising the power needed for the board.

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