

FEATURES AND SPECIFICATIONS



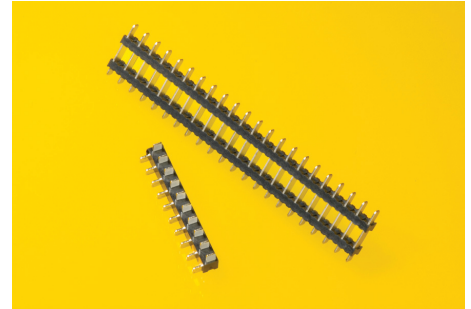
EXTreme MicroPower™ 4.00mm (0.157") Pitch Board-to-Board Connector

The **EXTreme MicroPower™ High-Current Header** can be used in VRM / DC-DC converters or any board-to-board application where power transfer is needed through a non-separable interface in a compact design. EXTreme MicroPower™ offers extremely high current density, rated at 16.0A per blade at 30°C T-rise on a 4.00mm pitch, its low profile design of 4.17mm (.164") off the PCB enhances system airflow. EXTreme MicroPower™ is available in both right angle and vertical (mezzanine) mounting configurations, and is an excellent choice to replace old fashioned, low capacity stick headers.

Features and Benefits

- Compact, direct solder high current power blades for VRM, and other point of load applications
- 16.0A per blade at 30°C temperature rise (22 circuits loaded)
- 4.00mm pitch standard (optional voided circuits available)
- 4 to 24 circuits, single inline row configuration
- Very low 4.17mm x 4.00mm right angle profile
- 7.00 and 10.00mm stack heights on vertical version
- Slotted via for maximum current transfer

75730 Right Angle
78094 Vertical



SPECIFICATIONS

Reference Information

Packaging: Tray
UL File No.: E29179
Designed In: Millimeters

Electrical

Voltage:
250V max (Right Angle)
350V max (Vertical)
Current (@ 30°C Temperature rise):
22 Circuit – 16.0A max. (per blade)
Dielectric Withstanding Voltage:
1500V DC (Right Angle)
1750V AC (Vertical)
Insulation Resistance:
5000 Megaohms min. (Right Angle)
1000 Megaohms min. (Vertical)

Physical

Housing: LCP
Contact: Copper Alloy
Plating:
Overall: 100µ" Select Matte Tin min.
Underplating — 50µ" Nickel min.
Flammability Rating: UL 94V-0

Documents

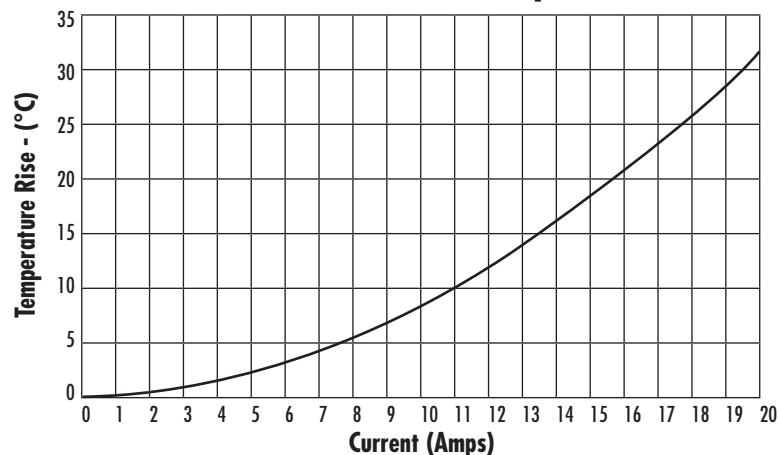
Sales Drawings: SD-75730-118
SD-87094-100
Product Specs: PS-75730-999
PS-87094-010

ORDERING INFORMATION

Series*	Description	Circuits	Stack Heights	Solder tail lengths
75730	Right Angle	4 to 24	N/A	Riser card side 2.60mm / Motherboard side 3.06 or 3.81mm
78094	Vertical	2 to 22	7.00 and 10.00mm	Mezzanine card side 2.60mm / Motherboard side 3.70mm

*Complete part numbers can be found at www.molex.com/link/ext-power.html

EXTreme MicroPower™ Temperature Rise



EXTreme Power® Products

The need for high-current power interconnect solutions in increasingly smaller space continues to rise rapidly. Solving this power equation on new architectures and system platforms has been a major focus for Molex product development teams. The new Molex EXTreme Power® family of products is the direct result of listening intently to our customers' electrical and mechanical design challenges. Since no two applications are the same, the Molex EXTreme Power® offering is comprised of several product families that cover a wide range of current densities, mechanical envelopes, mating terminations and configuration choices that give system designers the ability to maximize their power interconnect needs.

