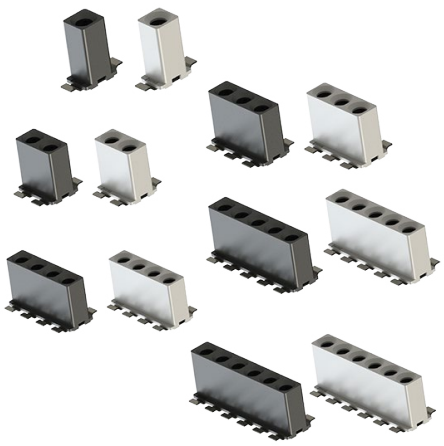
POKE-HOME - INVERTED THRU BOARD 18-26 AWG: 9296-500

General Information



KYOCERA AVX continues to develop innovative connectors for the industrial electronics market that provide significant benefits over existing, outdated connector solutions. According to the design engineering community, there are ongoing applications for which an off-the-shelf solution is not available that will satisfy a high percentage of the project's configuration, performance, and cost goals.

KYOCERA AVX's broadening line of Wire-to-Board (WTB) connectors offers a cost-effective, single Poke-Home connector solution that will meet the cost and performance targets in demanding yet user-friendly applications. At the heart of the connector is the industry-proven dual-tine, 3mm high spring force box contact that has been on the market as a standalone horizontal contact-only solution.

The 9296-500 SMT vertical top entry connector allows for 18 AWG to 26 AWG wires to be stripped and inserted into the connector body at a 180-degree orientation to the top side of the PCB. This single connector will replace existing 2-piece WTB solutions where a header is soldered onto the PCB, and a secondary crimp-to-wire receptacle assembly is plugged in. Available in 1-6 positions, each connector will accept the entire wire gauge range for solid or stranded wires at varying current ratings supported by each wire size. Once inserted, wires can easily be removed or replaced by twisting/unscrewing or using a small blade extraction tool.

APPLICATIONS

- Industrial/Ruggedized Wire-to-Board applications
- Replace hard soldering of wire to a PCB
- Replace costly 2-Piece header and receptacle products
- Application Notes: Refer to 201-01-152
- Product Specification Refer to 201-01-151

FEATURES AND BENEFITS

- Dual Beam box contact provides maximum mechanical stability and wire retention
- Tape and reel packaged for automated SMT placement
- Will accept either solid or stranded wire, 18-26 AWG, plated or un-plated wires
- Simple strip and insert for wire loading, with easy twist and pull for wire removal

ELECTRICAL

- Current Rating: See matrix below
- Voltage Rating: 600 VAC (RMS) or DC Equivalent 1 way; 300 VAC (RMS) or DC Equivalent 2 - 6 way

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to 70°C

MECHANICAL

- Contact Material: Copper Alloy
- Housing Material: Glass Filled Nylon 46 UL94 V-0
- Contact Plating: Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER

00 — Prefix

9296 — Series

00X — Number of Ways
001 = 1
002 = 2
003 = 3
004 = 4
005 = 5
006 = 6

XXX — Wire Gauge Size

Code	Accepted Wire Gauge	Max Insulation OD
503	18 – 26 AWG Solid or Stranded	2.2mm

X — Insulator Color
All Sizes
9 = UL White (Standard)
8 = UL Black (Special Order)

One Way Only (Special Order)
2 = UL Brown
3 = UL Blue
4 = UL Yellow
5 = UL Red
6 = UL Green
7 = UL Orange

06 — Plating Options
06 = Tin Plated



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RoHS compliant

CURRENT RATING

18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
7A	6A	5A	4A	3A

Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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