CLARKE & SEVERN ELECTRONICS

Solutions that Fit - From One Source



Archer Connectors – M52 Specification

1.27mm x 2.54mm pitch male pin headers (with 0.46mm square pins) and female sockets, for vertical board-to-board connection.

Email sales@clarke.com.au - www.clarke.com.au - webshop www.cseonline.com.au

Materials

Housings: Contacts: Finish: High Temperature Plastic UL94V-0 Copper Alloy Gold

Electrical

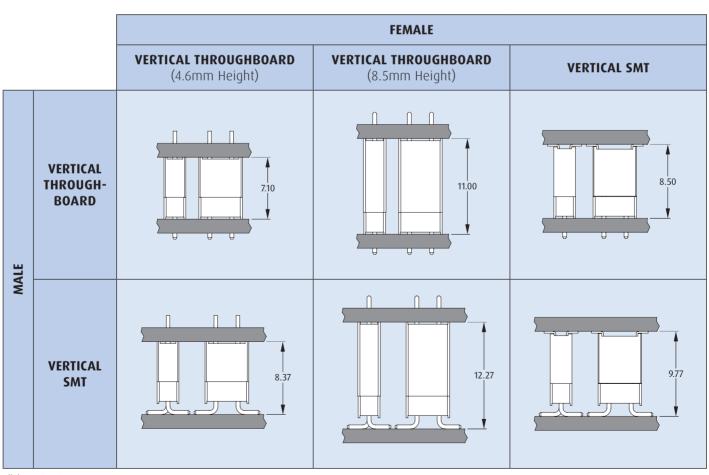
Current: Voltage proof: Contact resistance: Insulation resistance 1A per contact 500V AC, 1,000V DC for 1 minute 30mΩ max 1,000MΩ min

Mechanical	
Durability:	300 operations
Insertion force (max) M52-500, 510: Others:	1.0N per contact 1.5N per contact
Withdrawal force (min) M52-500, 510: Others:	0.12N per contact 0.1N per contact
Vibration sensitivity:	50-2,000Hz, 3.13G, 45 minutes duration
Shock severity:	294m/s² (30G) for 11ms

Environmental

Operating temperature: Solderability: Soldering heat resistance: -40°C to +105°C 245°C for 5 seconds 260°C for 5 seconds

Mating Profiles



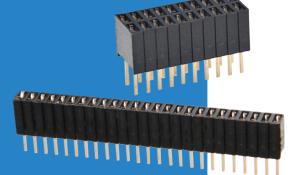


1.27mm (.050") PITCH

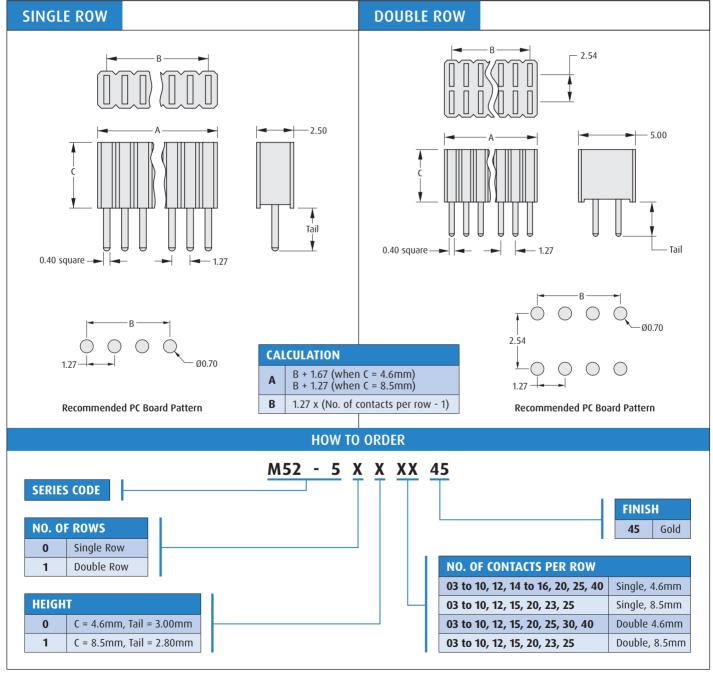
Archer Connectors – M52

Female Vertical Throughboard

- Choice of connector height.
- Suitable for use with male connectors with 0.46mm square pins.



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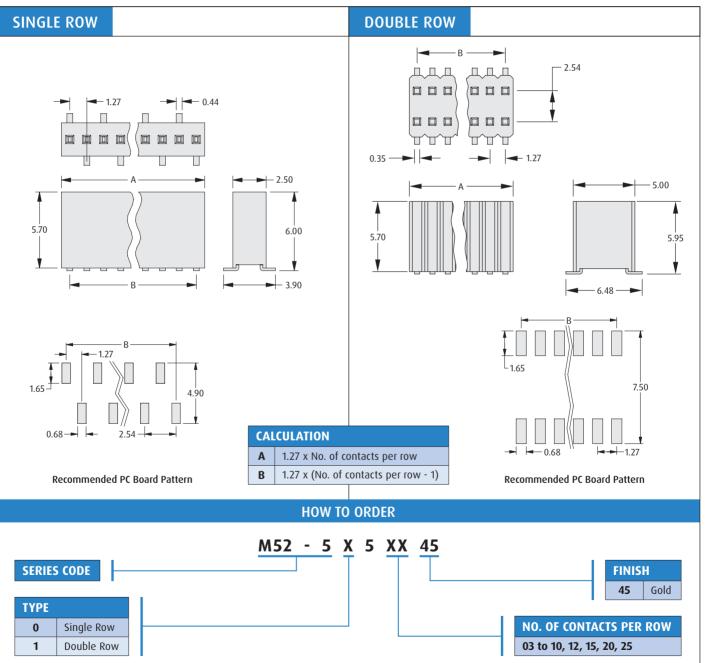


Archer Connectors – M52

Female Vertical Surface Mount

- Suitable for use with male pin headers with 0.46mm square pins.
- Twin beam contact for cost-effective reliability.



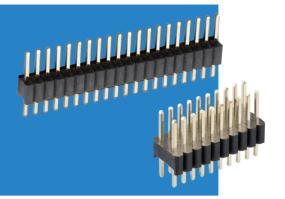


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Archer Connectors – M52

Male Vertical Throughboard

 Suitable for use with female connectors shown on previous page.



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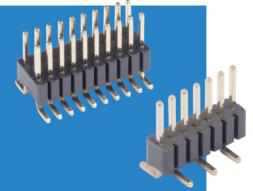
SINGLE ROW - 2.50 1.27 -4.00 0000 \square Ø0 65 **Recommended PC Board Pattern** -2.50 - 2.30 1.27 — 0.46 square CALCULATION **DOUBLE ROW** 1.27 x No. of contacts per row Α В 1.27 x (No. of contacts per row - 1) 5.00 -2.54 R 1.27 – 4.00 $\bigcirc \bigcirc \bigcirc \bigcirc$ (2.54 Ø0.65 2 50 **Recommended PC Board Pattern** -2.30 — 0.46 square 1 77 **HOW TO ORDER** M52 - 040023 X XX 45 **SERIES CODE FINISH** 45 Gold **TYPE NO. OF CONTACTS PER ROW** v Single Row 05, 10, 20, 25 W Double Row

1.27mm (.050") PITCH

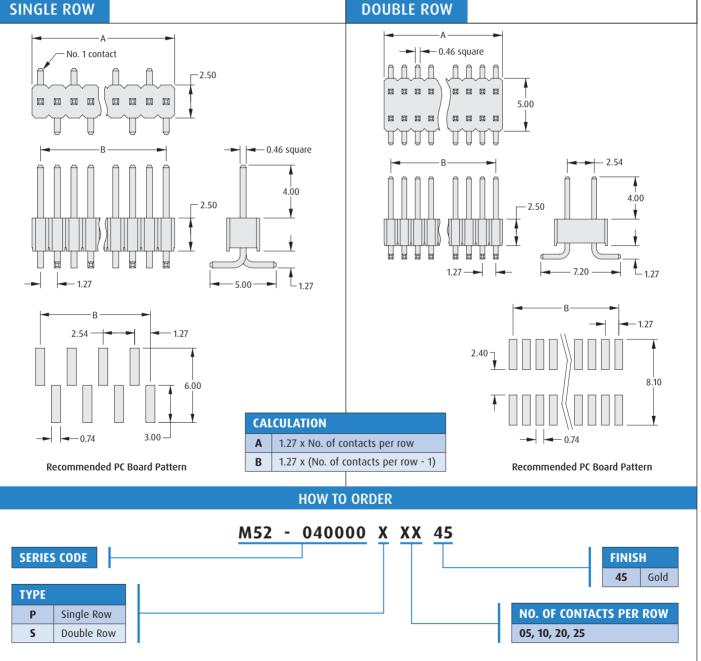
Archer Connectors - M52

Male Vertical Surface Mount

Suitable for use with female connectors shown on previous page.



SINGLE ROW



All dimensions in mm.

IARWin