



Plug-in Screw Connector System for Printed Circuit Boards



TYPE 110-M-121 /-221
3.5 mm spacing - 2 to 24 poles



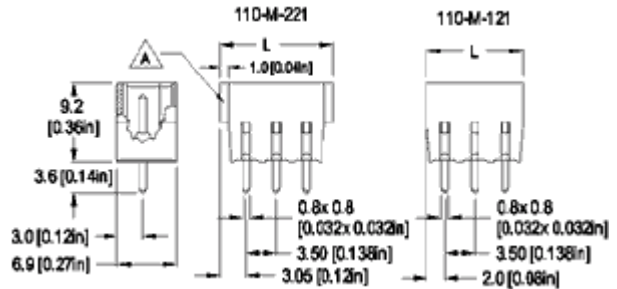
110-M-221



One assembly



RoHS WEEE Pb free compliant



Dimensions: mm (in.)

Length of Connector (L)

110-M-121: $L = (\text{No. of Poles} \times \text{Center to Center Spacing}) + 0.6 \text{ mm}$

110-M-221: $L = (\text{No. of Poles} \times \text{Center to Center Spacing}) + 2.6 \text{ mm}$

(A) Poka-Yoke feature

When locating connector, allow 0.5 mm clearance around it for process-induced variations.

Approval Information

UL File No. E69841
CSA File No. LR24322

Rating	Current(A)	Voltage(V)	Application group	AWG
UL	8	300	B, D	
CSA	8	300	B	

Description

- Header
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 110-A-111, 110-A-IDC, 110-FP3-211
- 110-M-221 is equipped with a poka-yoke feature on each end sidewall. This prevents incorrect misaligned plugging when utilized with 110-A series plugs.
- 110-M-121 have a small foot print that allows a "dropin" fit when replacing competitive product. This is especially useful on PCB that are typically completely covered in components. It can be said that misalignment would in principle be prevented by the close components in close proximity.
- Internal features prevent backwards insertion.

International Approvals:



Rated Impulse Withstand Voltage: 2500 V

Material

Molding: Polyamide, self extinguishing UL 94, V-0, color grey
Temperature limits:

- Installable on PCB assembled as per the wave solder technology specification

Temperature limits:

Short Time: 140°C (284°F)

Continuous: RTI 105°C (221°F)

Low Limit: -40°C (-40°F)

Comparative Tracking Index: CTI > 600

Oxygen Index Rating: 33%

Technical Data

Center to Center Spacing: 3.5 mm (0.138 in.)

Recommended Hole Diameter in PC Board:

1.2 mm (0.047 in.)

Solder Pin: 0.8 x 0.8 mm (0.03 x 0.03 in.), Tin plated copper alloy

Illustration



Coding keys 120-K are available to prevent the insertion of the wrong plug into a header. These are usually field inserted but can be factory installed if required. These coding keys are visible from the exterior, through slots in the header. Correct keying requires the removal of corresponding keying nibs from the 110-A plugs.

Item

110-M-121 /-221

Options

- CN: Consecutive Numbering (hot stamped numbers)
- SM: Special Marking (please provide sketch)
- G05: Gold Plating (5 micro inches)
- G30: Gold Plating (30 micro inches)
- S30: Silver Plating (30 micro inches)

Note: Plated component: solder pin

Ordering Note: Version with 7 mm spacing (110-M-122 /-222).

Accessories

POKA-YOKE FEATURE:
without: 1 with: 2

POLES:
02 to 24

110-M-

21/