194009-1 Product Details
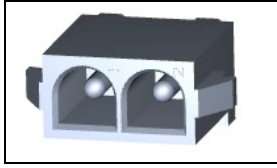
194009-1

TE Internal Number: 194009-1

✔ Active

.250" Centerline, 600 V, 19 - 36 A max

🌱 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Universal MATE-N-LOK II Product Line
- Wire-to-Board
- Applies To Printed Circuit Board
- Connector
- Header

Documentation & Additional Information	
Product Drawings: • HIGH CURRENT VERT. PIN HEADER ASSY, MATE-N-LOK 11, 2... (PDF, English)	**Additional Information:** • Product Line Information
Catalog Pages/Data Sheets: • SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY (PDF, English)	**Related Products:** • Tooling
Product Specifications: • None Available	
Application Specifications: • None Available	
Instruction Sheets: • None Available	
CAD Files: (CAD Format & Compression Information) • 2D Drawing (DXF, Version D) • 3D Model (IGES, Version D) • 3D Model (STEP, Version D)	

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Product Line = Universal MATE-N-LOK II
- Product Type = Connector
- Connector Type = Header
- Termination Method to Wire/Cable = Solder
- PCB Mounting Orientation = Vertical
- PCB Mount Retention = Without
- PCB Mount Alignment = With
- Strain Relief = Without
- Sealed = No
- Termination Method to PC Board = Through Hole - Solder
- PCB Mount Alignment Type = Standard Polarized Tail
- UL File Number = E28476
- CSA File Number = LR 16455

Mechanical Attachment:
- Contact Retention = Without
- Mating Retention Type = Locking Tab

Electrical Characteristics:
- Contact - Rated Current (A) = 36
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 600

Termination Features:
- Tail Length (mm [in]) = 3.68 [0.145]

Dimensions:
- PCB Thickness, Recommended (mm [in]) = 1.57 [0.062]

Body Features:
- Mating Retention = With
- Underplate Material Thickness (μm [μin]) = 1.02 [40.000]
- Assembly Integration Feature = Without

Contact Features:

Housing Features:
- Connector Style = Plug
- Centerline (mm [in]) = 6.35 [0.2499]
- Housing Material = Nylon
- Housing Color = White
- UL Flammability Rating = UL 94V-0
- Mating Alignment = With
- Mating Alignment Type = Polarization

Configuration Features:
- Number of Positions = 2
- Number of Rows = 1

Industry Standards:
- Agency/Standard = UL, CSA
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C
- RoHS/ELV Compliance History = Always was RoHS compliant
- VDE Tested = Yes
- UL Rating = Recognized
- CSA Rating = Certified

Environmental:
- Operating Temperature (°C [°F]) = -55 – +105 [-67 – +221]

Conditions for Usage:
- Applies To = Printed Circuit Board
- Glow Wire Rating = Standard Part - Not Glow Wire
- For Use With = Plug with High Current Socket Contacts

Operation/Application:
- Application Use = Wire-to-Board
- Contact Transmits (Typical Application) = Power

Packaging Features:

- Contact Type = Pin
- Contact Style = Straight
- Contact Layout = In-Line
- Contact Base Material = Copper Alloy
- Contact Plating, Mating Area, Material = Silver
- Tail Plating Material = Silver
- Multiple Contact Types = Without
- Contact Plating, Mating Area, Thickness (µm [µin]) = 5.08 [200]
- Tail Plating Thickness (µm [µin]) = 5.08 [200]
- Underplate Material = Nickel

Packaging Features:
- Packaging Method = Bag
- Packaging Quantity = 100

Other:
- Brand = AMP

RELEASED FOR PUBLICATION   —,— .

LOC	DIST			REVISIONS			
FT	0	P	LTR	DESCRIPTION	DATE	DWN	APVD
			H3	REVISED PER ECO-11-004917	11MAR11	RK	HMR

△1 PRELIMINARY PART NUMBER.

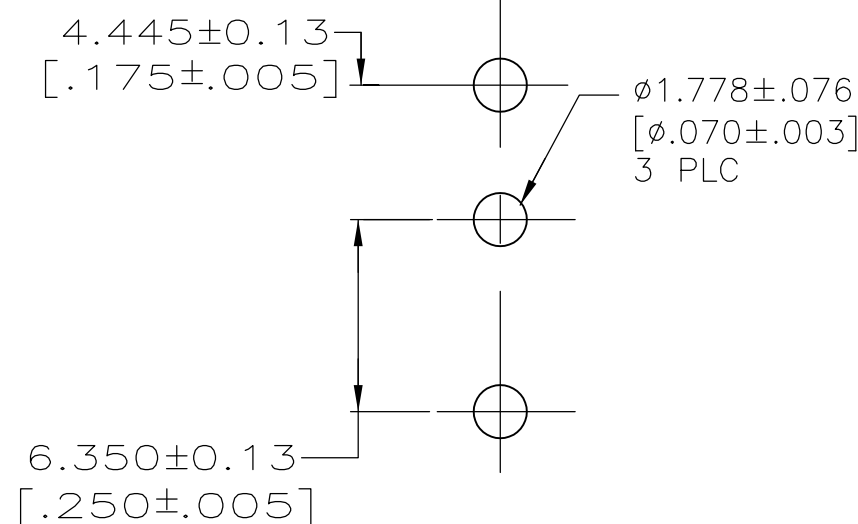△2 NO LOCATION TAB.

8.89 [.35]

13.97 [.55]

13.97 [.55]

0.76[.030] TYP

△2
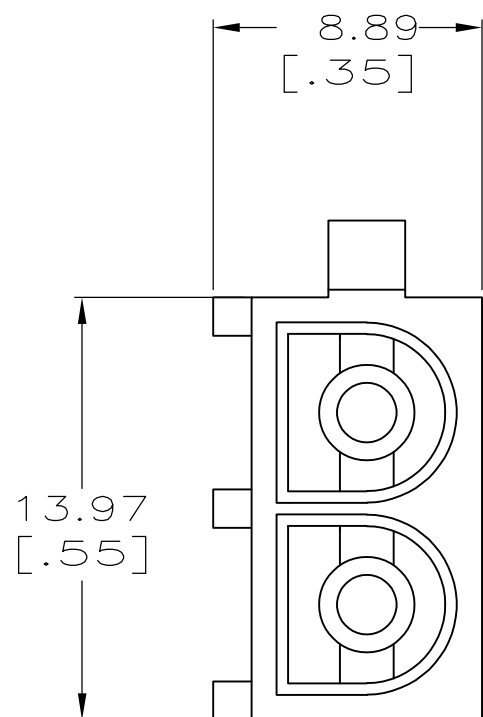
HOUSING
MATERIAL: NYLON 94V-0
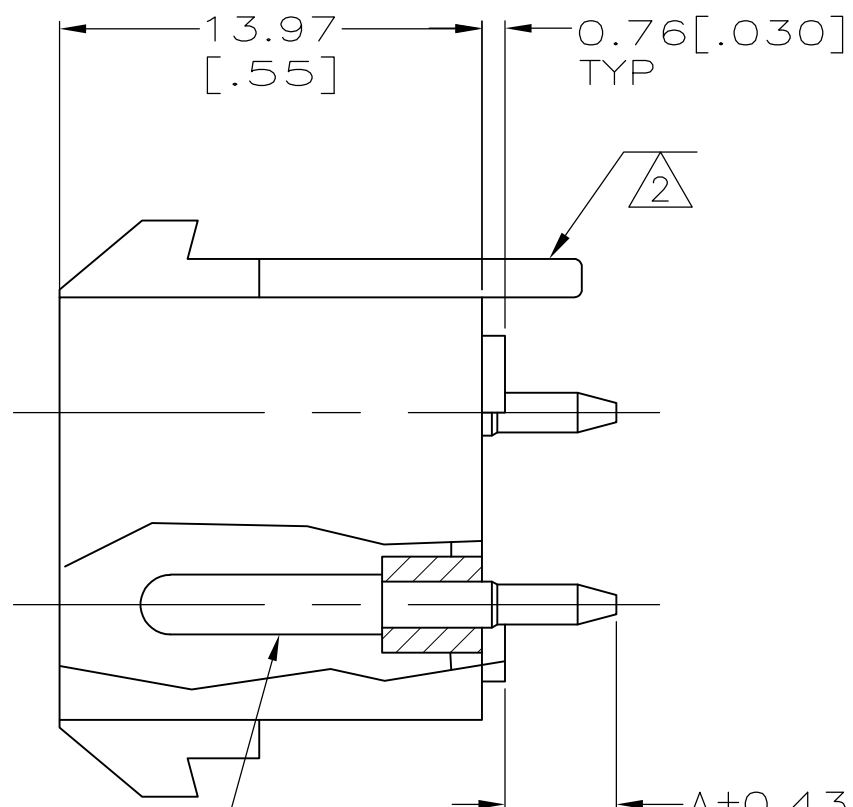
CONTACT
MATERIAL: COPPER ALLOY
FINISH: 5 um [200uIN] MIN SILVER
OVER 1um [40uIN] MIN NICKEL (-1 & -2).
30 uIN MIN GOLD OVER 50
uIN MIN NICKEL. (-3).

A±0.43 [±.017] 2 PLC

4.445±0.13 [.175±.005]

ø1.778±.076 [ø.070±.003] 3 PLC

6.350±0.13 [.250±.005]

RECOMMENDED LAYOUT FOR
1.57 [.062] THICK P.C. BOARD

	DIM A	PART NUMBER
△2	3.68[.145]	194009-4
△1	3.68[.145]	194009-3
△1	7.62[.300]	194009-2
	3.68[.145]	194009-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	R.N. POLK	03NOV94
CHK	G.STEINHAUER	03NOV94
APVD	G.STEINHAUER	03NOV94

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	± —
1 PLC	± —
2 PLC	± 0.25[.01]
3 PLC	± —
4 PLC	± —
ANGLES	± —

MATERIAL —   FINISH —

PRODUCT SPEC —

APPLICATION SPEC —

WEIGHT —

≡TE   TE Connectivity

NAME
HIGH CURRENT VERT. PIN HEADER
ASSY, MATE-N-LOK 11, 2 CIRCUIT
—

SIZE	CAGE CODE	DRAWING NO		RESTRICTED TO
A3	00779	C-194009		—

CUSTOMER DRAWING

SCALE 4:1   SHEET 1 OF 1   REV H3