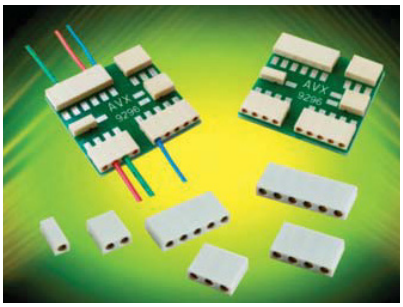
POKE-HOME: LOW PROFILE HORIZONTAL 20-26 AWG: 9296-200

General Information



The new 9296 series connector provides a quick and reliable wire-to- board termination in a sleek 3.0mm pitch by 2.5mm high SMT package for a broad range of industrial and commercial applications. With almost every product on the market having to deal with a small number of discrete wires connecting components to a PCB, the 9296 connector series meets this challenge by simply stripping the wire and inserting them into a 1 to 6 position connector. This makes the connector very cost effective and termination friendly within the factory as well as in the field by electrical installers.

Developed for harsh industrial applications, the connector integrates the already proven 2mm dual beam poke-home contact into a connector housing. The high spring force Phosphor Bronze contact accepts a wide range (20-26AWG solid or stranded) of wire to accommodate any wire combination within a single connector.

APPLICATIONS

- Machine Controls: motors, drives, solenoids, sensors, fans and pumps
- Commercial Buildings: controls, security, fire and sensors
- Smart Grid: meters, breakers and panels
- SSL/LED: bulbs, fixtures, signage and streetlights
- Application notes: refer to 201-01-167

FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with easy twist and pull wire extraction
- 2.5mm height achieves the lowest height possible for this AWG range
- Accepts 20-26 AWG solid and stranded wires
- High spring force dual beam box contact provides maximum mechanical stability and wire retention
- UL approved
- Halogen free

ELECTRICAL

- Current Rating: See matrix below
- Voltage Rating: 300 VAC

ENVIRONMENTAL

- Operating Temperature: -40°C to +130°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel
- Durability: 3 Cycles

HOW TO ORDER

00 — **Prefix**

9296 — **Series**

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

2X — **Description**
20 = Horizontal SMT Mount Poke Home Connector
21 = Horizontal SMT Mount Poke Home Connector for pass through mating pins

2 — **Wire Gauge Size**
20AWG to 26AWG
Max ø 1.60mm

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

X — **Halogen Free**
0 = No
1 = Yes

6 — **Plating Options**
6 = Pure Tin over Nickel

RoHS COMPLIANT

CURRENT RATING

	20AWG	22AWG	24AWG	26AWG
UL	8A	7A	6A	5A
cUL	6A	5A	3.75A	3.75A

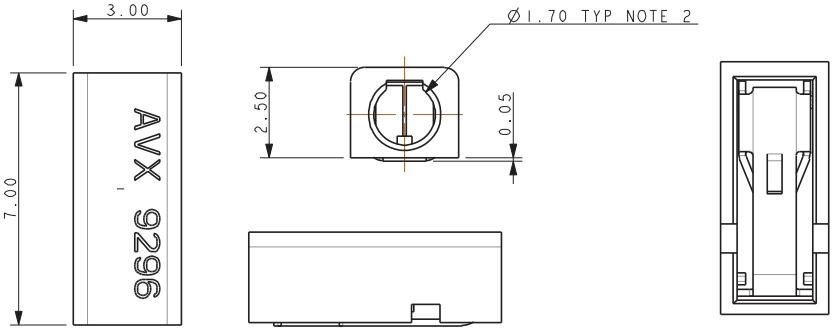
Certification: UL File #E90723

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POKE-HOME: LOW PROFILE HORIZONTAL 20-26 AWG: 9296-200

1 Position

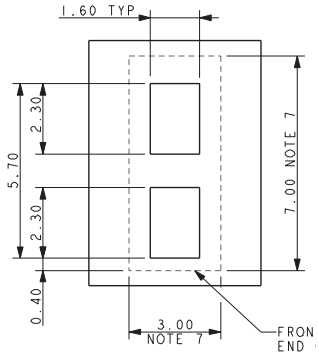
9296 HORIZONTAL MOUNT POKE HOME CONNECTOR – 1 WAY



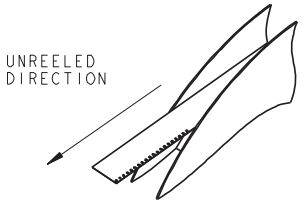
NOTES:

1. HORIZONTAL SMT MOUNT 1 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-166 AND APPLICATION NOTES 201-01-167.
2. SUITABLE FOR WIRES 20AWG TO 26AWG, MAXIMUM INSULATION 1.60MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-O, COLOR SEE PAGE 122.
4. CONTACT: TIN PLATED COPPER ALLOY.
5. PACKING IN TAPE AND REEL, QTY PER REEL 2000, 330MM REEL.
6. GENERAL TOLERANCE ±0.20.
7. OUTLINE OF CONNECTOR.
8. UL REFERENCE E90723 (US AND CANADA).

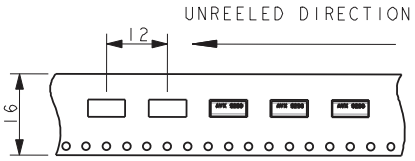
SUGGESTED PCB LAYOUT



PACKING DETAILS

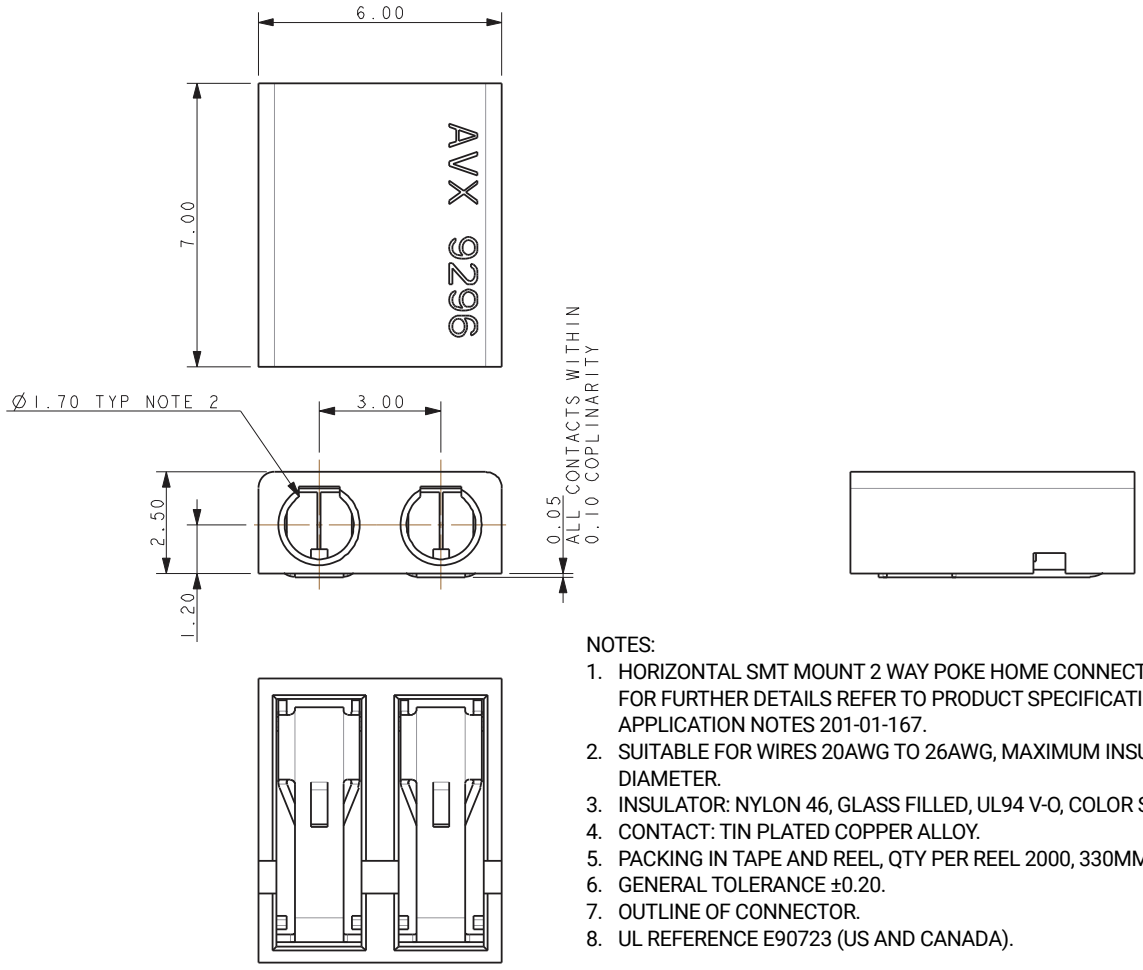


330mm DIAMETER REEL



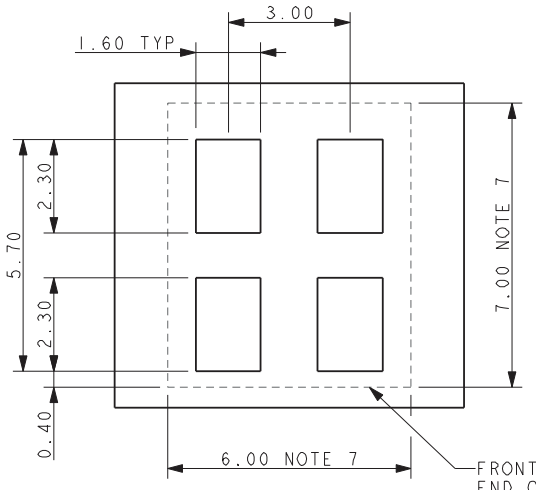
QUANTITY PER REEL 2000

9296 HORIZONTAL MOUNT POKE HOME CONNECTOR – 2 WAY

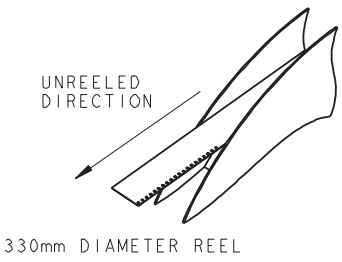


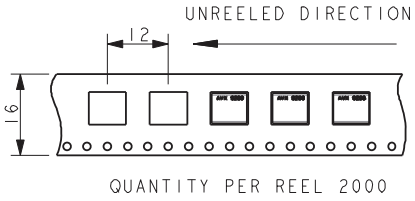
NOTES:
1. HORIZONTAL SMT MOUNT 2 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-166 AND APPLICATION NOTES 201-01-167.
2. SUITABLE FOR WIRES 20AWG TO 26AWG, MAXIMUM INSULATION 1.60MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-O, COLOR SEE PAGE 122.
4. CONTACT: TIN PLATED COPPER ALLOY.
5. PACKING IN TAPE AND REEL, QTY PER REEL 2000, 330MM REEL.
6. GENERAL TOLERANCE ±0.20.
7. OUTLINE OF CONNECTOR.
8. UL REFERENCE E90723 (US AND CANADA).

SUGGESTED PCB LAYOUT



PACKING DETAILS

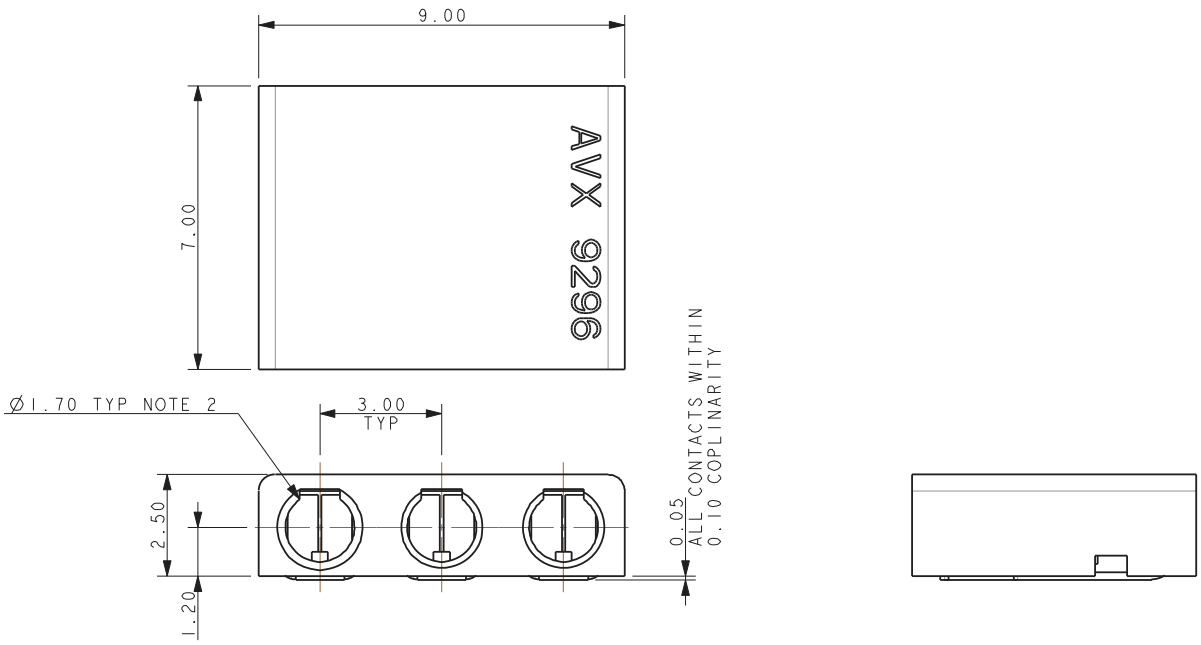


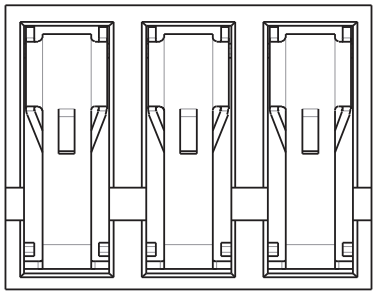


QUANTITY PER REEL 2000

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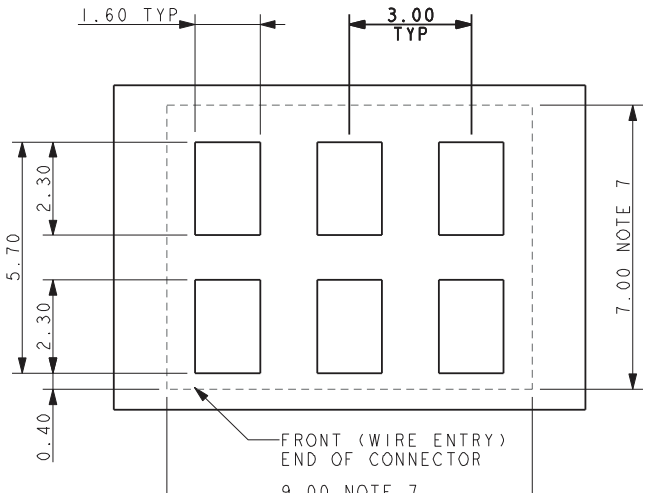
9296 HORIZONTAL MOUNT POKE HOME CONNECTOR – 3 WAY



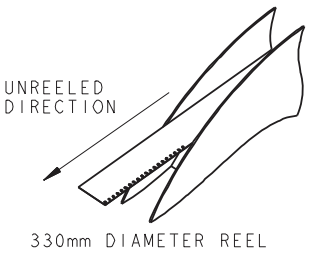


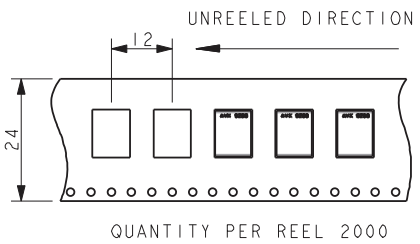
NOTES:
1. HORIZONTAL SMT MOUNT 3 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-166 AND APPLICATION NOTES 201-01-167.
2. SUITABLE FOR WIRES 20AWG TO 26AWG, MAXIMUM INSULATION 1.60MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-O, COLOR SEE PAGE 122.
4. CONTACT: TIN PLATED COPPER ALLOY.
5. PACKING IN TAPE AND REEL, QTY PER REEL 2000, 330MM REEL.
6. GENERAL TOLERANCE ±0.20.
7. OUTLINE OF CONNECTOR.
8. UL REFERENCE E90723 (US AND CANADA).

SUGGESTED PCB LAYOUT

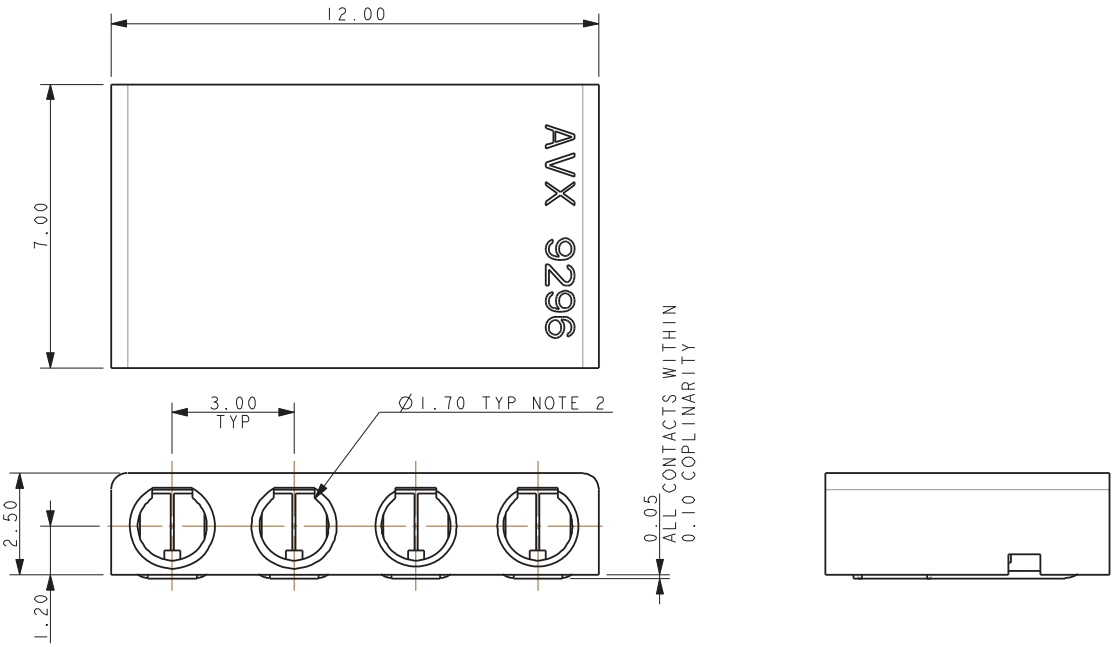


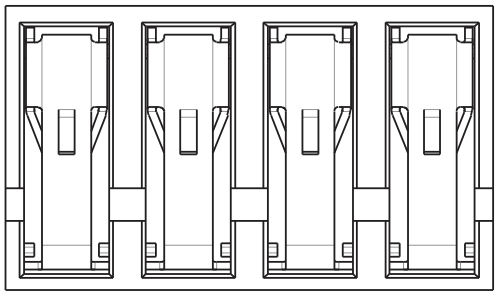
PACKING DETAILS





9296 HORIZONTAL MOUNT POKE HOME CONNECTOR – 4 WAY

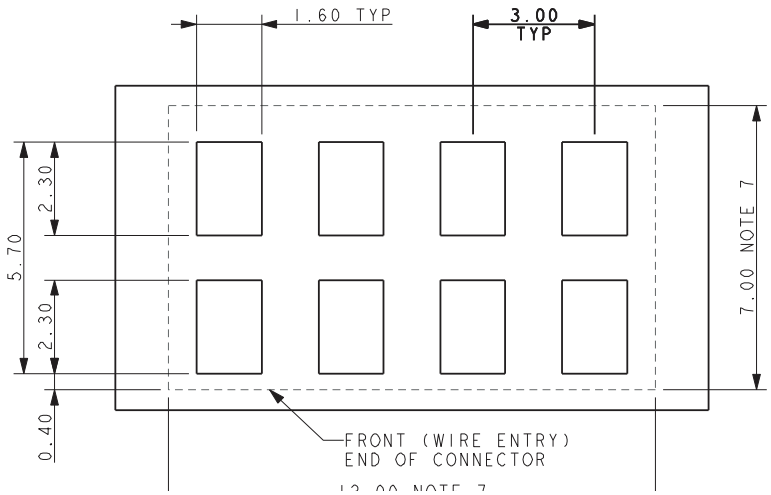




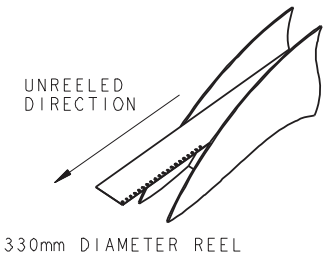
NOTES:

1. HORIZONTAL SMT MOUNT 4 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-166 AND APPLICATION NOTES 201-01-167.
2. SUITABLE FOR WIRES 20AWG TO 26AWG, MAXIMUM INSULATION 1.60MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-O, COLOR SEE PAGE 122.
4. CONTACT: TIN PLATED COPPER ALLOY.
5. PACKING IN TAPE AND REEL, QTY PER REEL 2000, 330MM REEL.
6. GENERAL TOLERANCE ±0.20.
7. OUTLINE OF CONNECTOR.
8. UL REFERENCE E90723 (US AND CANADA).

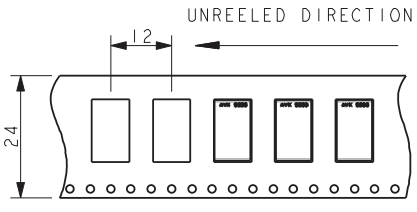
SUGGESTED PCB LAYOUT



PACKING DETAILS



330mm DIAMETER REEL



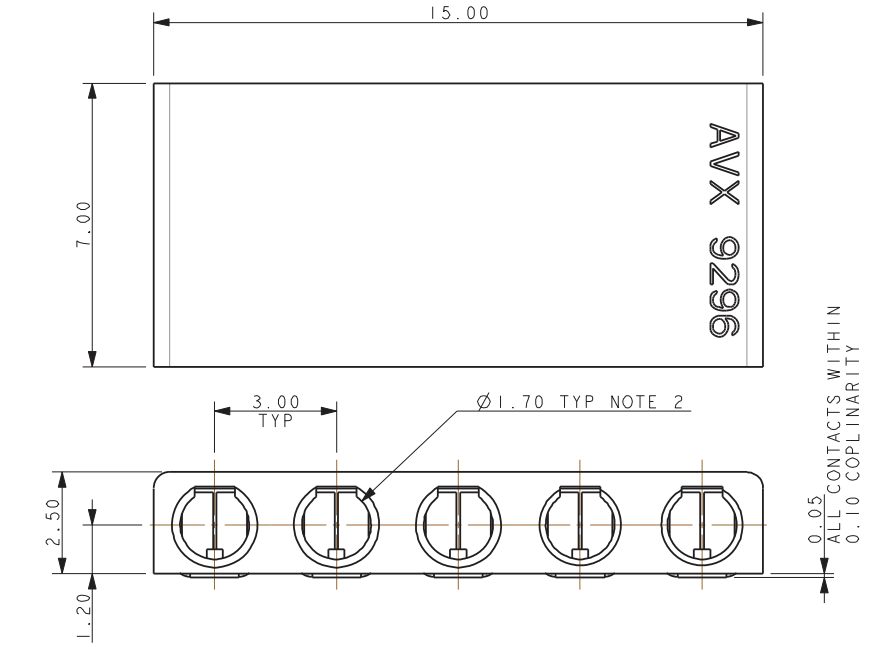
QUANTITY PER REEL 2000

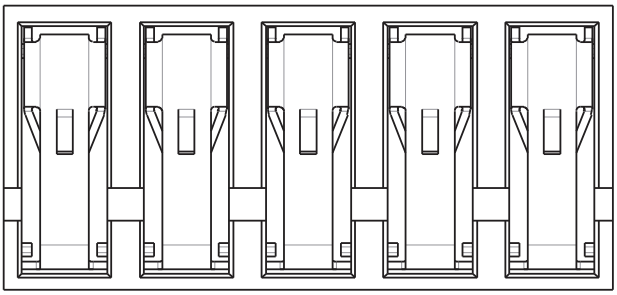
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POKE-HOME: LOW PROFILE HORIZONTAL 20-26 AWG: 9296-200

5 Position

9296 HORIZONTAL MOUNT POKE HOME CONNECTOR – 5 WAY

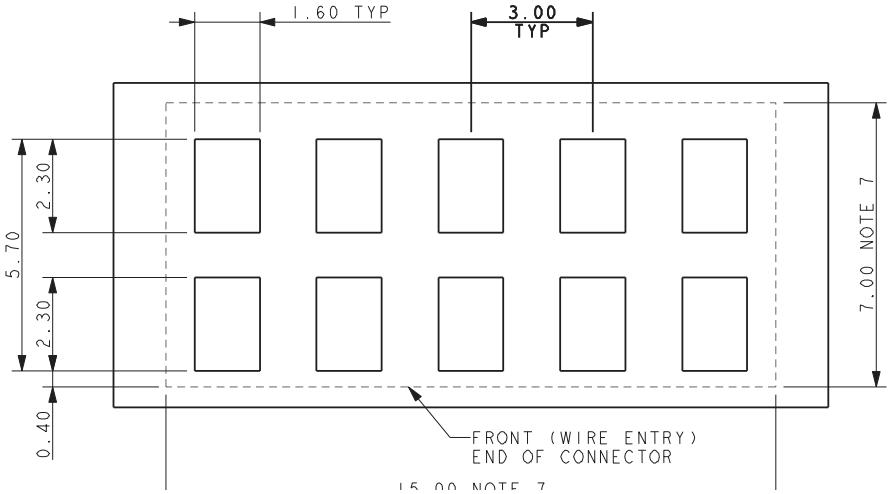




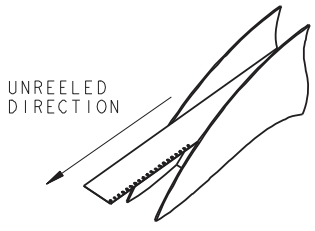
NOTES:

1. HORIZONTAL SMT MOUNT 5 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-166 AND APPLICATION NOTES 201-01-167.
2. SUITABLE FOR WIRES 20AWG TO 26AWG, MAXIMUM INSULATION 1.60MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-O, COLOR SEE PAGE 122.
4. CONTACT: TIN PLATED COPPER ALLOY.
5. PACKING IN TAPE AND REEL, QTY PER REEL 2000, 330MM REEL.
6. GENERAL TOLERANCE ±0.20.
7. OUTLINE OF CONNECTOR.
8. UL REFERENCE E90723 (US AND CANADA).

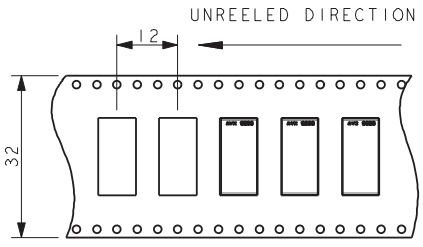
SUGGESTED PCB LAYOUT



PACKING DETAILS

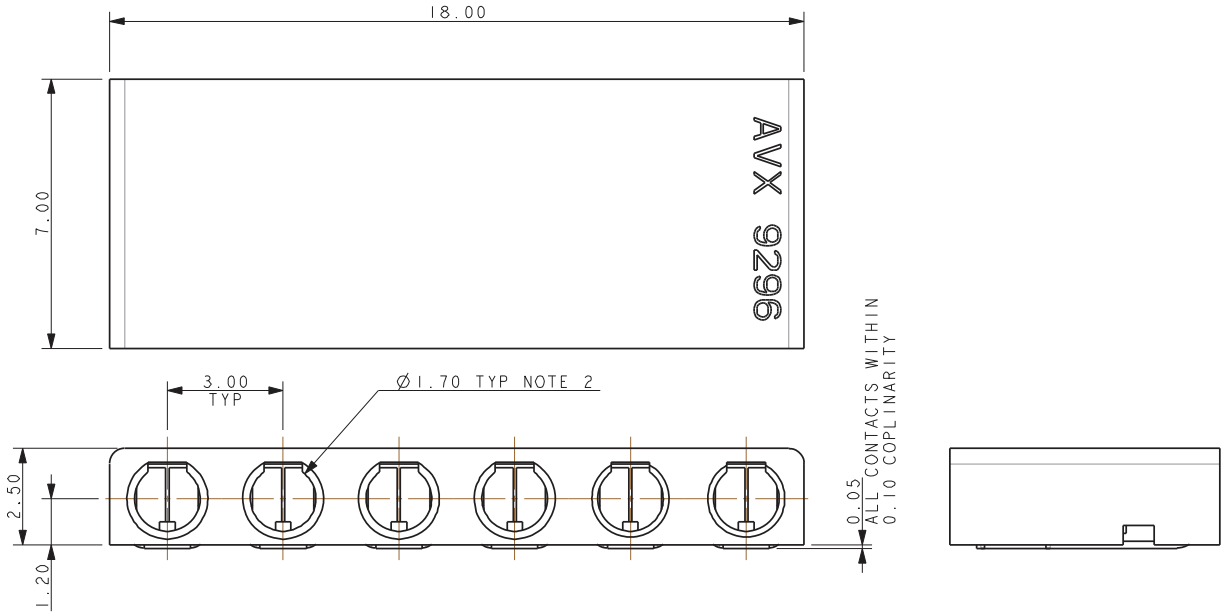


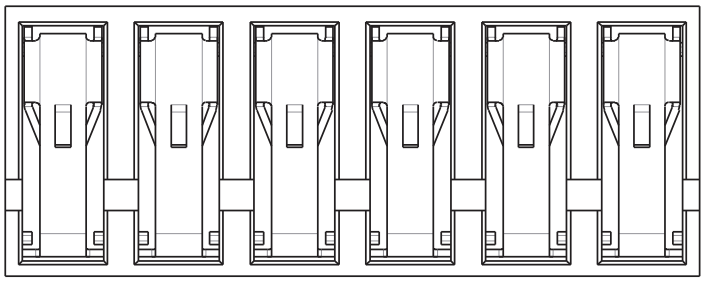
330mm DIAMETER REEL



QUANTITY PER REEL 2000

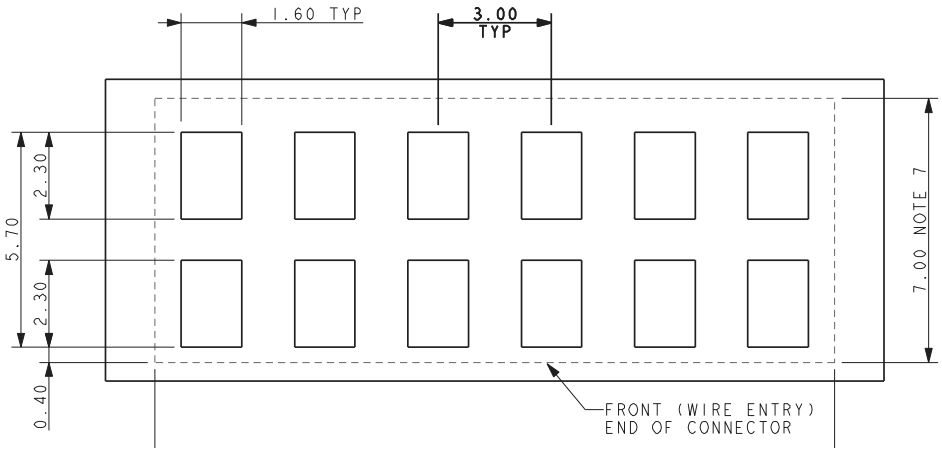
9296 HORIZONTAL MOUNT POKE HOME CONNECTOR – 6 WAY



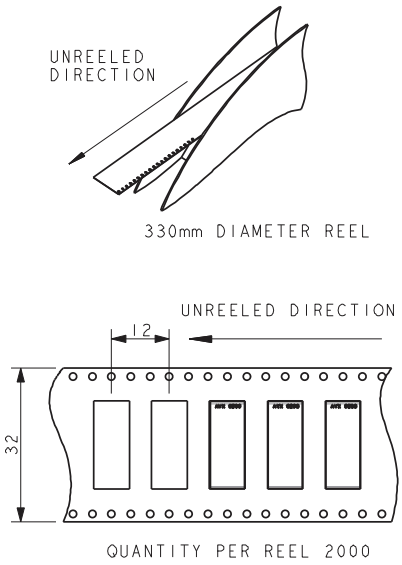


NOTES:
1. HORIZONTAL SMT MOUNT 6 WAY POKE HOME CONNECTOR. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-166 AND APPLICATION NOTES 201-01-167.
2. SUITABLE FOR WIRES 20AWG TO 26AWG, MAXIMUM INSULATION 1.60MM DIAMETER.
3. INSULATOR: NYLON 46, GLASS FILLED, UL94 V-O, COLOR SEE PAGE 122.
4. CONTACT: TIN PLATED COPPER ALLOY.
5. PACKING IN TAPE AND REEL, QTY PER REEL 2000, 330MM REEL.
6. GENERAL TOLERANCE ±0.20.
7. OUTLINE OF CONNECTOR.
8. UL REFERENCE E90723 (US AND CANADA).

SUGGESTED PCB LAYOUT

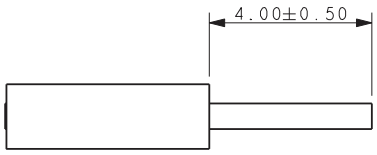


PACKING DETAILS

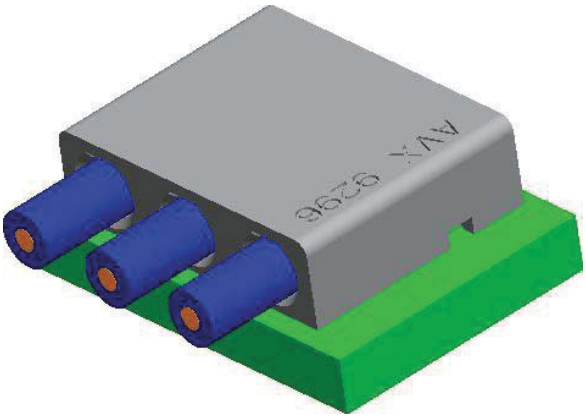


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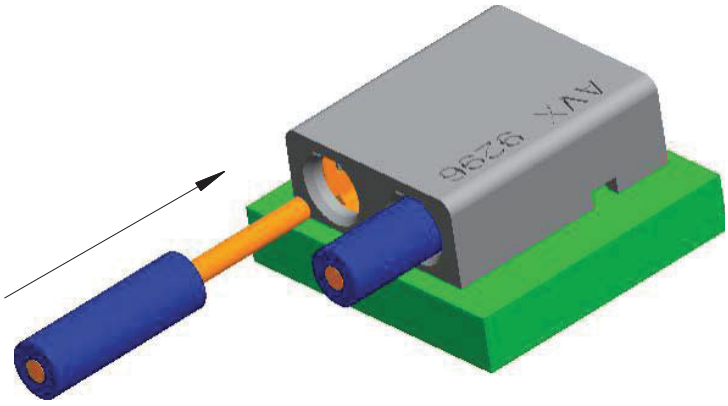
9296 HORIZONTAL MOUNT POKE HOME CONNECTOR – ASSEMBLY



WIRE STRIP LENGTH



REFER TO APPLICATION NOTES 201-01-167
FOR FULL ASSEMBLY PROCEDURE



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Global Electronic Components Distributor

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TCJB476M010R0070E 12061C473JAT2A 609176001415000 TAJC337K006RNJ TPME226K050R0075 TPSC227K006R0100 04025C821KAT2A 0402YC103KAT4A 06033C104KAT2A 08053D106KAT4A 600S3R3AW250XT TCJB476M010R0070 08055A471JAT2A SD1206S020S1R0 TCJB106M035R0200 TPSB336K010R0500 DT2012SB32768H5HPWAA SCCY68B407SSBLE TAJY107K016RNJ TCJA336M006R0200E 04023C103KAT2A NOJA226M006RWJ TAJB476K006RNJ VC120618D400DP 04025A101KAT2A 08055C682KAT2A 1812HA101JAT2A GG0402126R042P 600S1R0AT250XT4K FE52GI8I0227KB