General Information





KYOCERA AVX continues to develop innovative connectors for the industrial electronics market that provide significant benefits over existing, outdated connector solutions. The latest release is single vertical Wire-to-Board (WTB) contacts that provide cost effective, yet robust discrete wire termination without the expense of an insulator and assembly costs. This new family of top and bottom entry contacts compliments the existing vertical poke home connectors already on the market, providing a lower cost solution without jeopardizing performance

The new contacts support both solid and stranded wires ranging from 24AWG down to 18AWG and current ratings as high as 12 amps. The set of four contacts provide both top and bottom entry for FR4 and metal core printed circuit boards.

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

- FEATURES AND BENEFITS
- Dual Beam contact provides maximum mechanical stability and wire retention
- Tape and reel packaged for automated SMT placement
- Staged current rating based on AWG, maximum is 12A (18AWG)
- Increased functionality with the single contact placement: multiple contacts and/or specific individual locations

ELECTRICAL

- Voltage Rating: 300V
- Based on placement distance
- Current Rating: See matrix below

Operating Temperature:

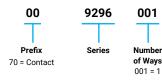
ENVIRONMENTAL

-40°C to +125°C

MECHANICAL

- Contact Material: Phosphor Bronze
- · Contact Plating: Pure Tin
- Durability: 5 Cycles

HOW TO ORDER



		\top				
Contact Style						
Code	Contact Location	Wire Insertion Direction	Recommended For Board Type	Wire Gauges		
103	Top Side	Bottom Entry	FR4	18 – 24 AWG		
113	Through Board	Top Entry	FR4	18 – 24 AWG		
123	Top Side	Bottom Entry	Metal Clad	18 – 24 AWG		
133	Through Board	Top Entry	Metal Clad	18 – 24 AWG		

1X3

006 Plating Options 006 = Pure Tin All Over



CURRENT RATING

18AWG	20AWG	22AWG	24AWG
15A	14A	10A	9A

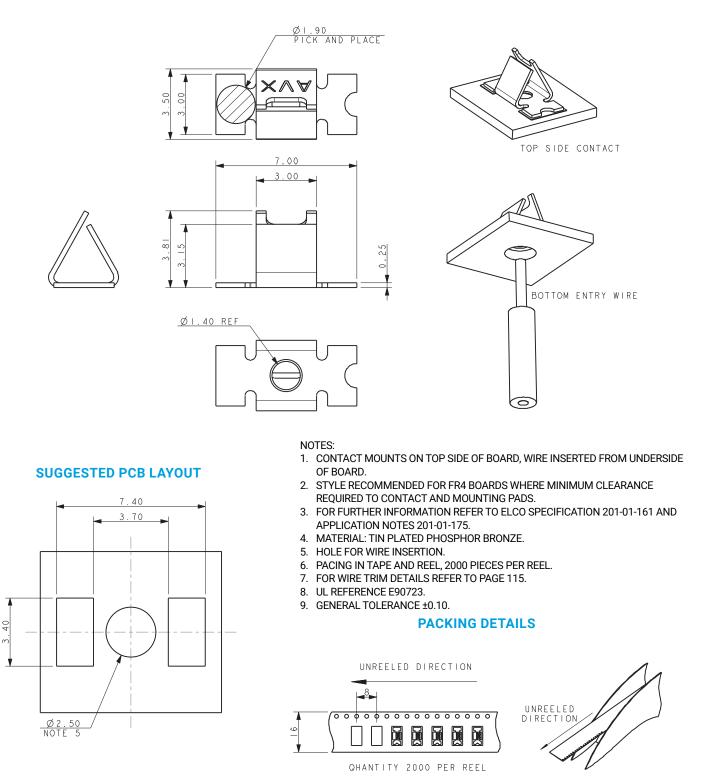
Certification: UL File #E90723

116



Top Side Contact - Bottom Entry Wire (FR4 Board)

70-9296-001-103-006 9296 VERTICAL MOUNT SMT CONTACT TOP SIDE CONTACT – BOTTOM ENTRY WIRE (FR4 BOARD)



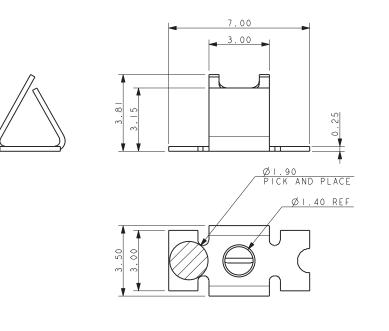
330mm DIAMETER REEL

KUDEERA available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.



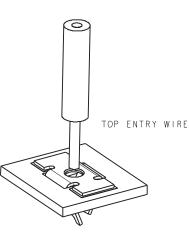
Through Board Contact - Top Entry Wire (FR4 Board)

70-9296-001-113-006 9296 VERTICAL MOUNT SMT CONTACT THROUGH BOARD CONTACT – TOP ENTRY WIRE (FR4 BOARD)

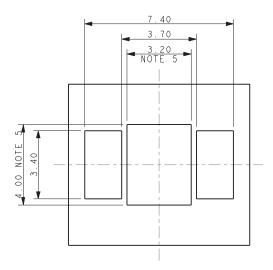


WW

THROUGH BOARD CONTACT



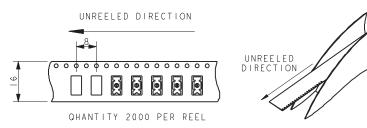
SUGGESTED PCB LAYOUT



NOTES:

- 1. CONTACT MOUNTS THROUGH THE BOARD, WIRE INSERTED FROM TOP SIDE
- 2. OF BOARD.
- 3. STYLE RECOMMENDED FOR FR4 BOARDS WHERE MINIMUM CLEARANCE REQUIRED TO CONTACT AND MOUNTING PADS.
- 4. FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-161 AND APPLICATION NOTES 201-01-175.
- 5. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 6. HOLE DIMENSIONS FOR CONTACT.
- 7. PACING IN TAPE AND REEL, 2000 PIECES PER REEL.
- 8. FOR WIRE TRIM DETAILS REFER TO PAGE 115.
- 9. UL REFERENCE E90723.
- 10. GENERAL TOLERANCE ±0.10.

PACKING DETAILS



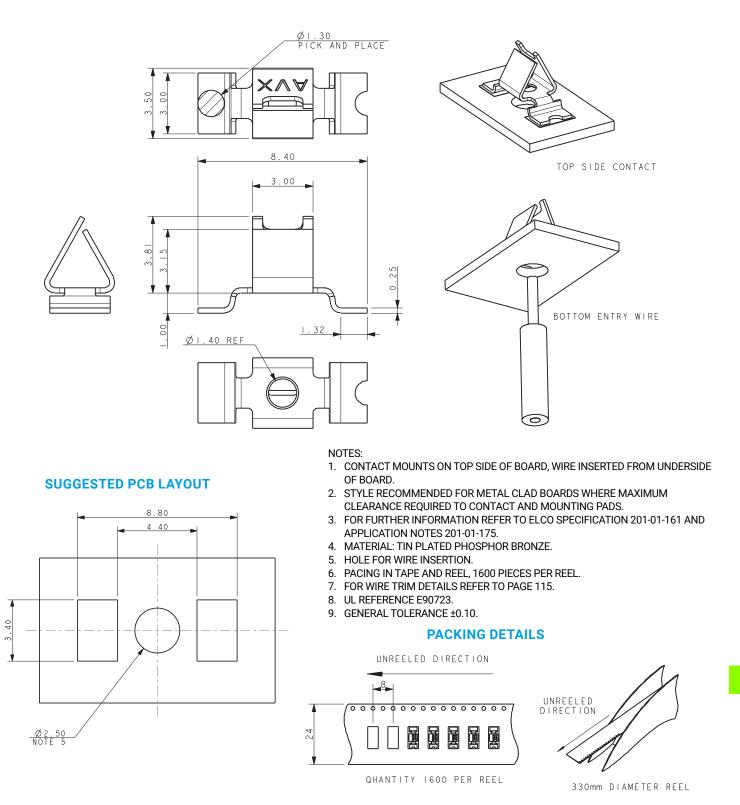
330mm DIAMETER REEL

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Top Side Contact - Bottom Entry Wire (Metal Board)

70-9296-001-123-006 9296 VERTICAL MOUNT SMT CONTACT TOP SIDE CONTACT – BOTTOM ENTRY WIRE (METAL BOARD)

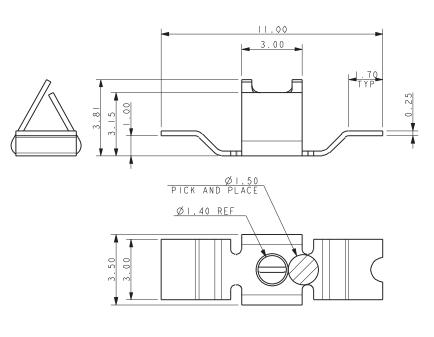


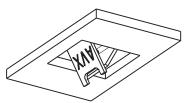
KUDEERA AV//C available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.



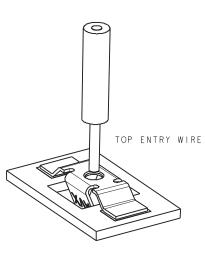
Through Board Contact - Top Entry Wire (Metal Board)

70-9296-001-133-006 9296 VERTICAL MOUNT SMT CONTACT THROUGH BOARD CONTACT – TOP ENTRY WIRE (METAL BOARD)

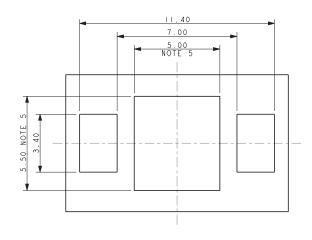




THROUGH BOARD CONTACT



SUGGESTED PCB LAYOUT

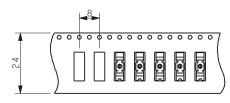


NOTES:

- 1. CONTACT MOUNTS THROUGH THE BOARD, WIRE INSERTED FROM TOP SIDE OF BOARD.
- 2. STYLE RECOMMENDED FOR METAL CLAD BOARDS WHERE ADDITIONAL CLEARANCE REQUIRED TO CONTACT AND MOUNTING PADS.
- 3. FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-161 AND APPLICATION NOTES 201-01-175.
- 4. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 5. HOLE DIMENSIONS FOR CONTACT.
- 6. PACING IN TAPE AND REEL, 2000 PIECES PER REEL.
- 7. FOR WIRE TRIM DETAILS REFER TO PAGE 115.
- 8. UL REFERENCE E90723.
- 9. GENERAL TOLERANCE ±0.10.

PACKING DETAILS

UNREELED DIRECTION



UNREELED DIRECTION

QHANTITY 2000 PER REEL

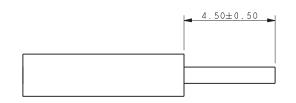
330mm DIAMETER REEL

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Wire Trim Details

9296 VERTIAL MOUNT SMT CONTACT WIRE TRIM DETAILS



WIRE STRIP LENGTH, ALL STYLES

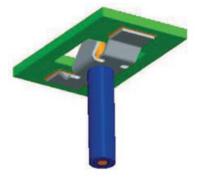




70-9296-001-113-006



70-9296-001-123-006



70-9296-001-133-006

NOTES:

- 1. FOR FULL ASSEMBLY PROCEDURE REFER TO APPLICATION NOTES 201-01-175.
- 2. THE SAME WIRE STRIP LENGTH APPLIES TO ALL STYLES.
- 3. STRANDED WIRES SHOULD BE TWISTED TO PREVENT SINGLE STRANDS BECOMING DETACHED WHEN INSERTED INTO CONTACT.

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011349-000
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