Right Angle 2.0mm Pitch Connector

9155-700





AVX extends their board-to-board right angle connectors with a new 2mm pitch version 9155-700, an addition to the existing versions 9155-300 with a 3mm pitch and 9155-500 with a 2.5mm pitch. This new connector is offered in 2 to 6 contact positions and rated at 2 Amps for the 2-4 way versions or 1.5 Amps for the 5-6 way versions. The connector's design is small and compact in order to minimize its profile, yet remain stable while having a contact point at 2.10mm above the PCB.

The stability comes from extra SMT anchor brackets. In addition to existing versions, the new connector has two options without or with locating bosses, providing even better mechanical stability on the PCB.

The complete family of connectors 9155 series from AVX offer all the same advantages: Ultra reliable and robust gold plated beryllium copper contacts provide high integrity connections in harsh environments, with 5000 mating operations, high temperature nylon plastic for RoHS soldering.

APPLICATIONS

- Handheld/portable devices requiring docking or cradle charging
- Patient monitoring or portable medical electronics
- Industrial devices requiring pluggable or programming modules
- Internet appliances requiring battery back-up

FEATURES AND BENEFITS

- Simple designed compact 2mm pitch right angle connector up to 6 positions
- · Gold plated BeCu contacts provide high electrical and mechanical performance over 5000 mating cycles
- Two anchor brackets for mechanical stability
- Optional plastic locating bosses with SMT anchor tabs maximizes the mechanical stability of the connector in harsh conditions

ELECTRICAL

• Current Rating: 2p-4p: 2.0 Amps, 5p-6p: 1.5 Amps

Voltage Rating: 125 VAC

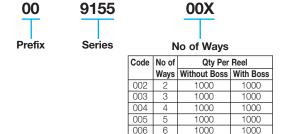
ENVIRONMENTAL

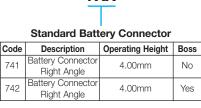
• Operating Temperature: -40°C to +125°C

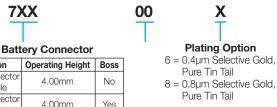
MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel, Tin leads
- Durability: 5000 Cycles

HOW TO ORDER





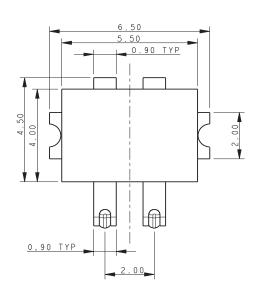


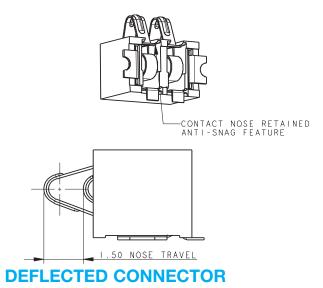


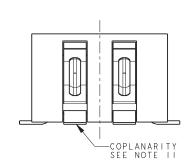
9155-700

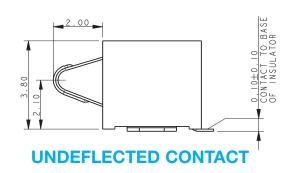


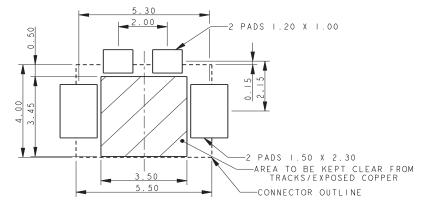
2 WAY BATTERY CONNECTOR - RIGHT ANGLE **2MM PITCH - WITHOUT BOSS**











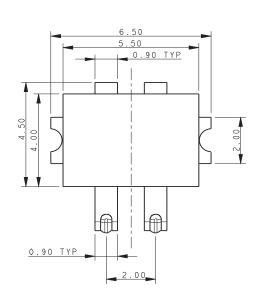
SUGGESTED PCB LAYOUT

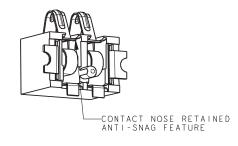
- 1. GENERAL TOLERANCE ±0.20 UNLESS OTHER-WISE STATED.
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO AVX SPEC 201-01-203.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 13.
- 4. PACKING DETAILS ON PAGE 12.
- 5. INSULATOR MATERIAL: GLASS FILLED NYLON 46, UL94 V-0, COLOR BLACK.
- 6. CONTACT MATERIAL: BERYLLIUM COPPER.
- 7. CONTACT PLATING; SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
- BRACKET MATERIAL; PHOSPHOR BRONZE.
- 9. BRACKET PLATING; PURE TIN OVER NICKEL
- 10. NOMINAL CONTACT FORCE 90 GRAMS AT 1.50 DEFLECTION.
- 11. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

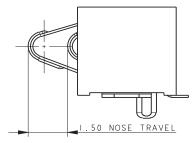
9155-700



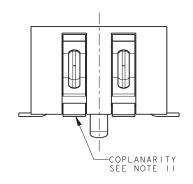
2 WAY BATTERY CONNECTOR - RIGHT ANGLE **2MM PITCH - WITH BOSS**

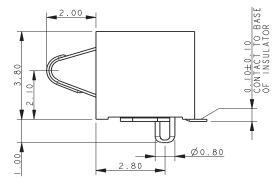






DEFLECTED CONNECTOR





UNDEFLECTED CONTACT

5.30 0.0 00 4 I HOLE Ø0.90 -2 PADS 1.50 X 2.30 AREA TO BE KEPT CLEAR FROM TRACKS/EXPOSED COPPER CONNECTOR OUTLINE

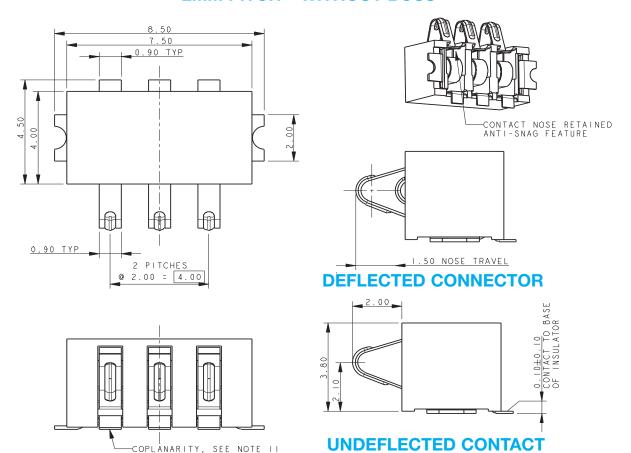
SUGGESTED PCB LAYOUT

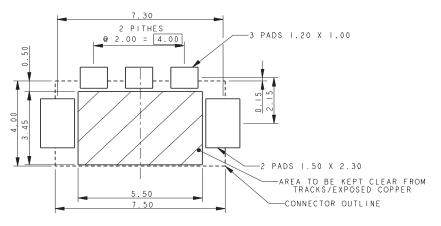
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- 10. NOMINAL CONTACT FORCE 90 GRAMS AT 1.50 DEFLECTION.
- 11. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

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3 WAY BATTERY CONNECTOR - RIGHT ANGLE **2MM PITCH - WITHOUT BOSS**





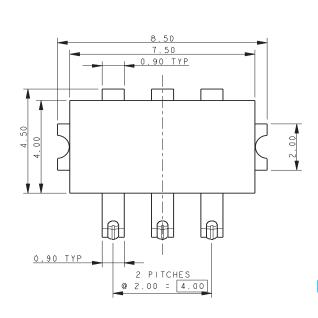
SUGGESTED PCB LAYOUT

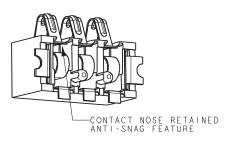
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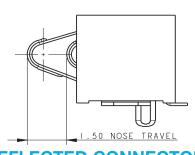
9155-700



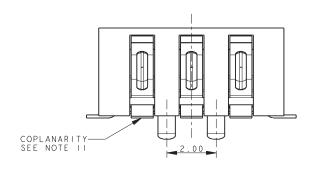
3 WAY BATTERY CONNECTOR - RIGHT ANGLE **2MM PITCH - WITH BOSS**

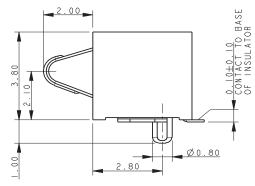




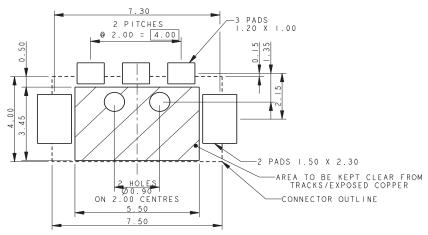


DEFLECTED CONNECTOR





UNDEFLECTED CONTACT



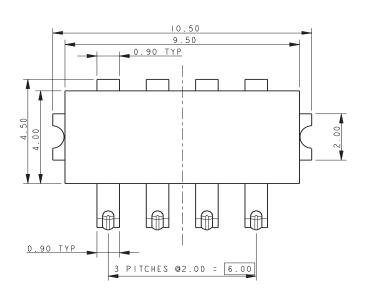
SUGGESTED PCB LAYOUT

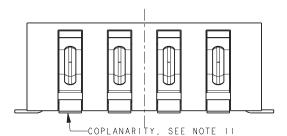
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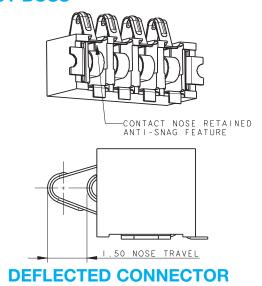
9155-700

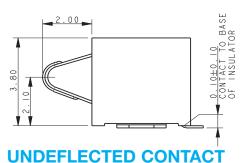


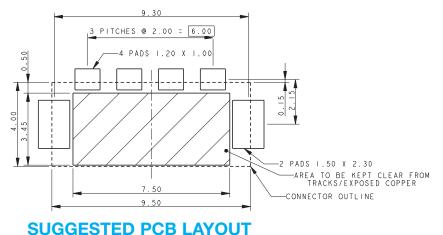
4 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITHOUT BOSS









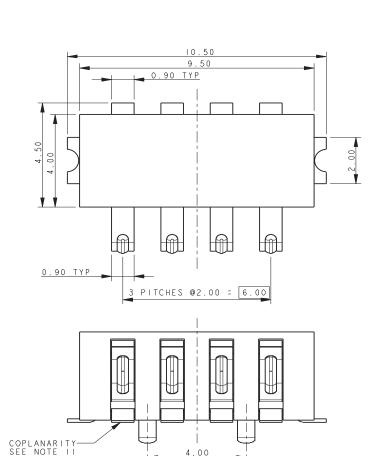


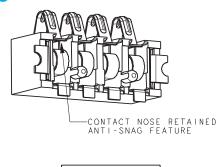
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- 11. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

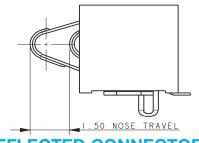
9155-700



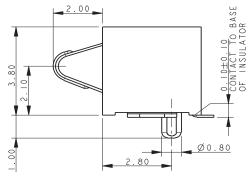
4 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITH BOSS



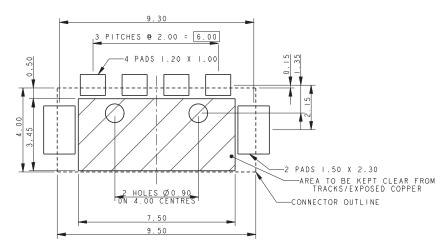




DEFLECTED CONNECTOR



UNDEFLECTED CONTACT



SUGGESTED PCB LAYOUT

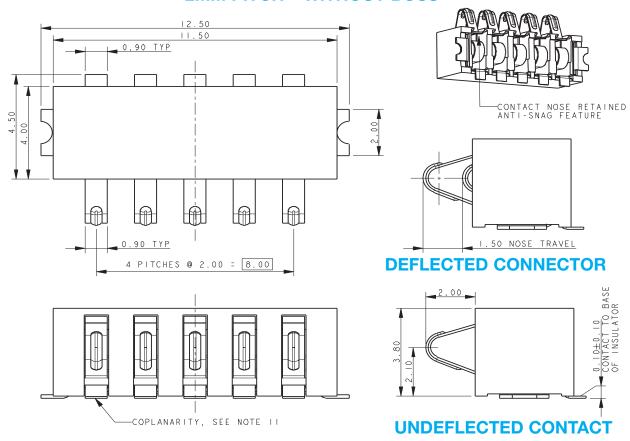
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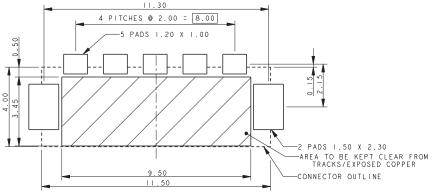
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- 9. BRACKET PLATING; PURE TIN OVER NICKEL.
- 10. NOMINAL CONTACT FORCE 90 GRAMS AT 1.50 DEFLECTION.
- 11. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

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5 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITHOUT BOSS





SUGGESTED PCB LAYOUT

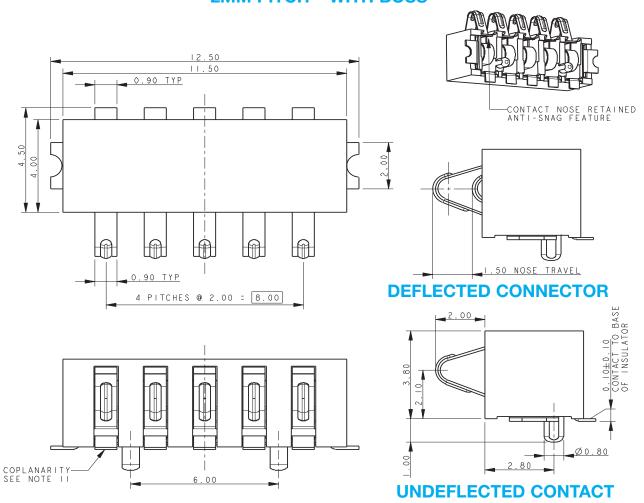
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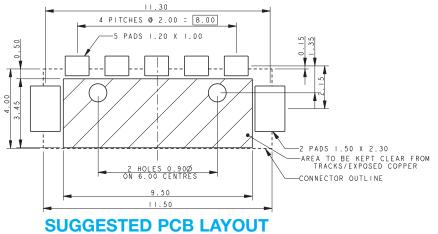
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- 10. NOMINAL CONTACT FORCE 90 GRAMS AT 1.50 DEFLECTION.
- 11. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

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5 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITH BOSS



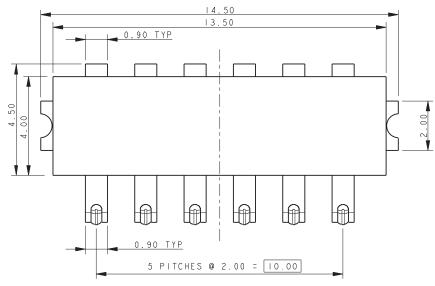


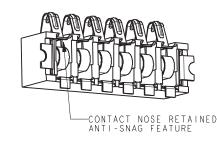
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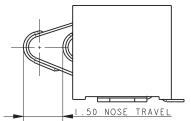
9155-700



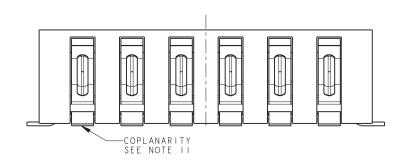
6 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITHOUT BOSS

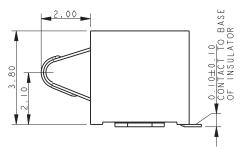




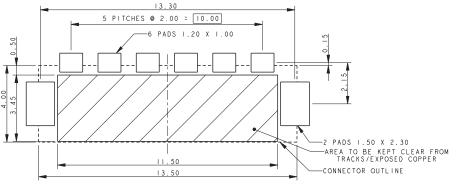


DEFLECTED CONNECTOR





UNDEFLECTED CONTACT



SUGGESTED PCB LAYOUT

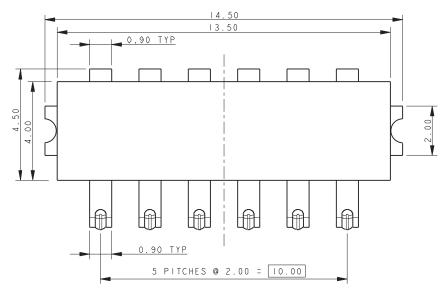
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- 10. NOMINAL CONTACT FORCE 90 GRAMS AT 1.50 DEFLECTION.
- PADS 0.12MM MAXIMUM.

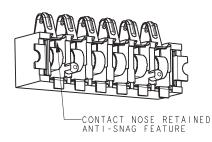
9155-700

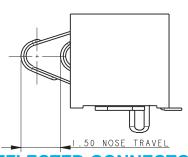
COPLANARITY SEE NOTE II



6 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITH BOSS

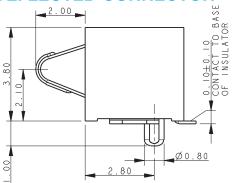






8.00

DEFLECTED CONNECTOR



UNDEFLECTED CONTACT

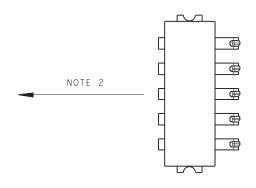
13.30 5 PITCHES @ 2.00 = 10.00 PADS 1.50 X 2.30 -AREA TO BE KEPT CLEAR FROM TRACKS/EXPOSED COPPER 2 HOLES 0.90Ø ON 8.00 CENTRES CONNECTOR OUTLINE 11.50

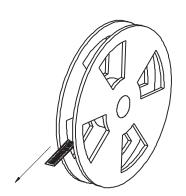
SUGGESTED PCB LAYOUT

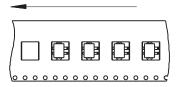
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- 11. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.



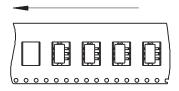
PACKING DETAILS



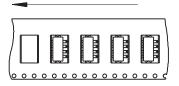




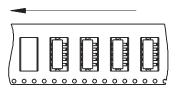
No of Ways	2
REEL QTY	1000 without Boss
	1000 with Boss
TAPE WIDTH	24mm
POCKET PITCH	12mm



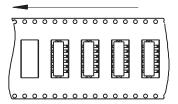
No of Ways	3
REEL QTY	1000 without Boss
	1000 with Boss
TAPE WIDTH	24mm
POCKET PITCH	12mm



No of Ways	4
REEL QTY	1000 without Boss
	1000 with Boss
TAPE WIDTH	24mm
POCKET PITCH	12mm
	·



No of Ways	5
REEL QTY	1000 without Boss
	1000 with Boss
TAPE WIDTH	24mm
POCKET PITCH	12mm



No of Ways	6
REEL QTY	1000 without Boss
	1000 with Boss
TAPE WIDTH	32mm
POCKET PITCH	12mm

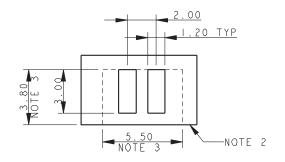
- 1. PARTS TO BE PACKED ON 330MM REELS.
- 2. COMPONENT ORIENTATION SHOWN.

9155-700

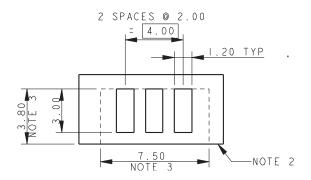


2MM PITCH RIGHT ANGLE - MATING PADS

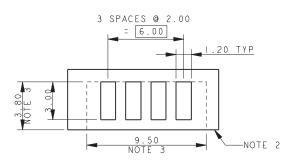
2 WAY - MATING PADS



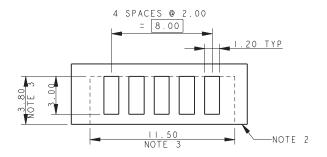
3 WAY - MATING PADS



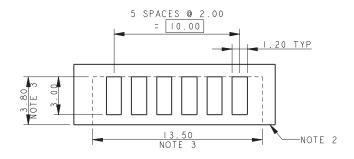
4 WAY - MATING PADS



5 WAY - MATING PADS



6 WAY - MATING PADS



- 1. SUGGESTED MATING PADS FOR RIGHT ANGLE BATTERY CONNECTORS.
- 2. TOP SURFACE OF HORIZONTAL PCB/BASE OF CONNECTOR.
- 3. PREFERED PLATING ON PADS, GOLD OVER NICKEL.