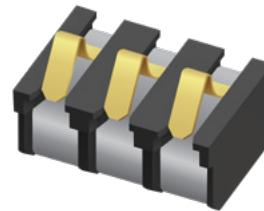
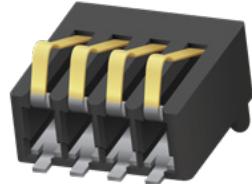
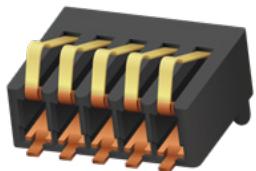




Specialty Connectors



IMPORTANT INFORMATION/DISCLAIMER

All product specifications, statements, information and data (collectively, the "Information") in this datasheet or made available on the website are subject to change. The customer is responsible for checking and verifying the extent to which the Information contained in this publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

Statements of suitability for certain applications are based on KYOCERA AVX knowledge of typical operating conditions for such applications, but are not intended to constitute and KYOCERA AVX specifically disclaims any warranty concerning suitability for a specific customer application or use.

ANY USE OF PRODUCT OUTSIDE OF SPECIFICATIONS OR ANY STORAGE OR INSTALLATION INCONSISTENT WITH PRODUCT GUIDANCE VOIDS ANY WARRANTY.

The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by KYOCERA AVX with reference to the use of KYOCERA AVX products is given without regard, and KYOCERA AVX assumes no obligation or liability for the advice given or results obtained.

Although KYOCERA AVX designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Unless specifically agreed to in writing, KYOCERA AVX has not tested or certified its products, services or deliverables for use in high risk applications including medical life support, medical device, direct physical patient contact, water treatment, nuclear facilities, weapon systems, mass and air transportation control, flammable environments, or any other potentially life critical uses. Customer understands and agrees that KYOCERA AVX makes no assurances that the products, services or deliverables are suitable for any high-risk uses. Under no circumstances does KYOCERA AVX warrant or guarantee suitability for any customer design or manufacturing process.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

SPECIALTY CATALOG

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SIM CARD CONNECTORS

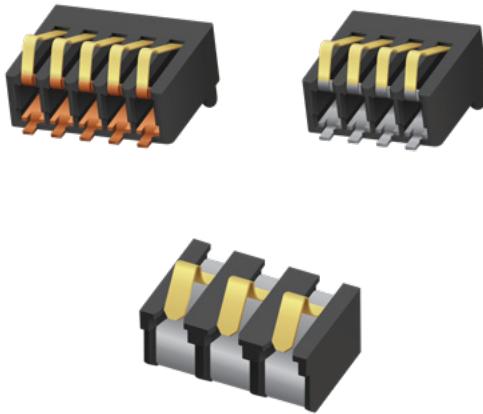
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BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000



The standard battery connector is specifically designed for mobile equipment.

The connectors are available in 3, 4 and 5 contact positions all on a 2.50mm pitch. The insulator height provides a 3mm spacing, with various contact nose heights from 1.20mm to 2.60mm, to provide spacing options to the end user.

All contacts are stamped and are rated to 3A, with Gold plating. Parts are supplied in tape and reel for automatic pick and place. Optional retaining brackets are available to provide greater strength when connected to the PCB.

Whatever your requirements, the 9155 series Battery Connector can also be customized to suit your applications.

APPLICATIONS

- Mobile Phones
- PDA
- Medical
- PMR
- Industrial

FEATURES AND BENEFITS

- Suitable for 5000 mechanical cycles.
- Variety of contact heights offered to suit different mechanical designs.
- Connectors can be end to end stackable.
- RoHS Compliant available.

ELECTRICAL

- Current Rating: 3 Amp / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 V-0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5000 Cycles



HOW TO ORDER

STANDARD

00	9155	00X
Prefix	Series	
00 = Standard		
58 = Special		

00	X
Standard Battery Connector	
00 = Standard Force	

01	X
Bracket	
01 = With Bracket	

REDUCED NOSE

00	9155	00X
Prefix	Series	
00 = Standard		
58 = Special		

05	X
Standard Battery Connector	
05 = Reduced Nose	

01	X
Bracket	
01 = With Bracket	

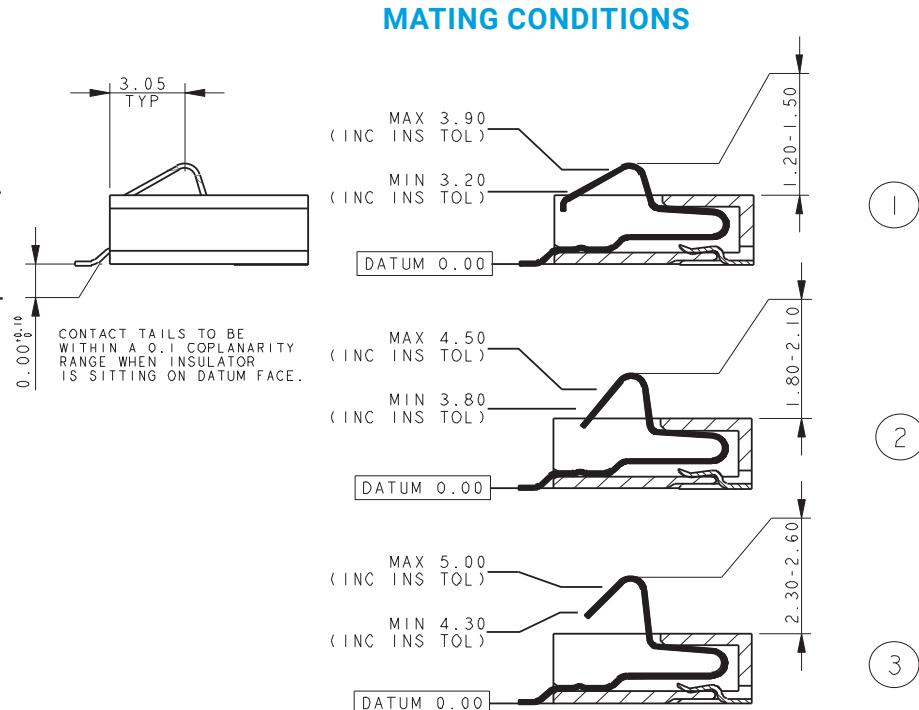
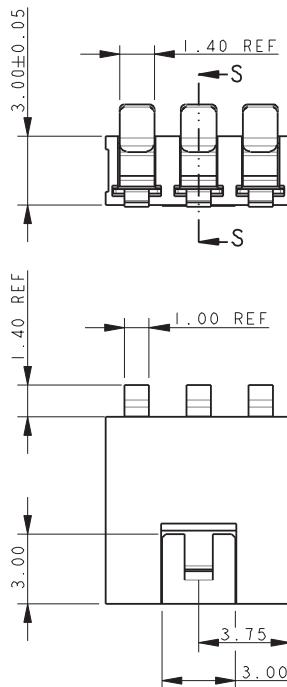
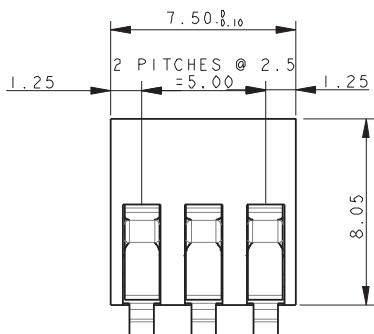


The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

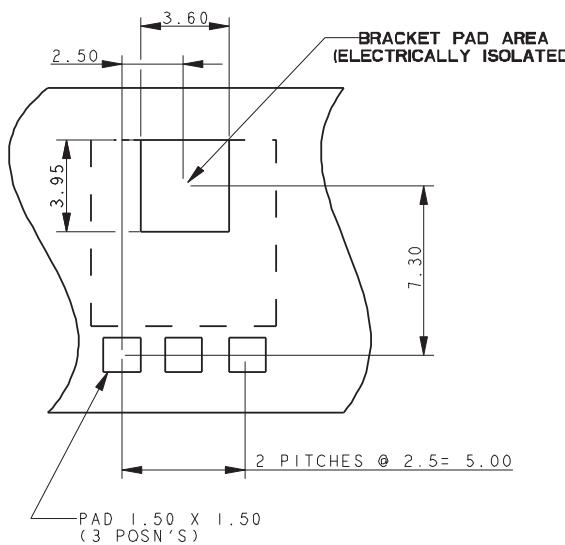
BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

3 WAY BATTERY CONNECTOR

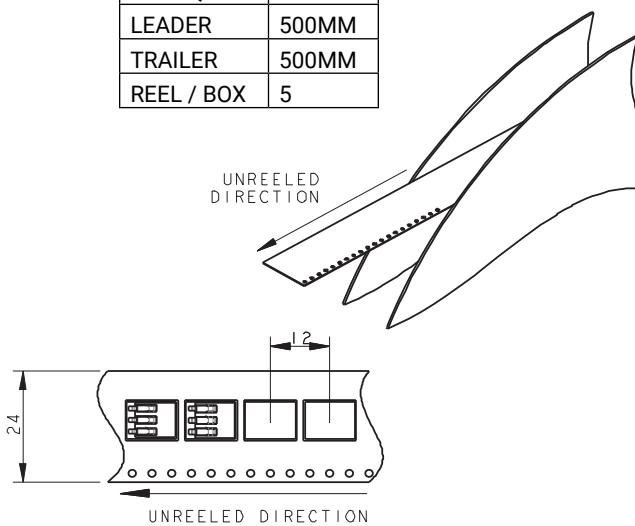


PCB BOARD LAYOUT



PACKING DETAILS

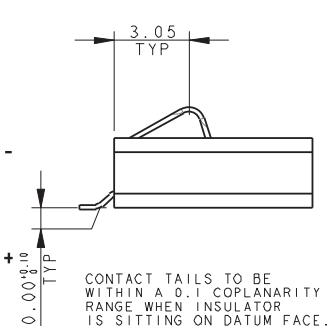
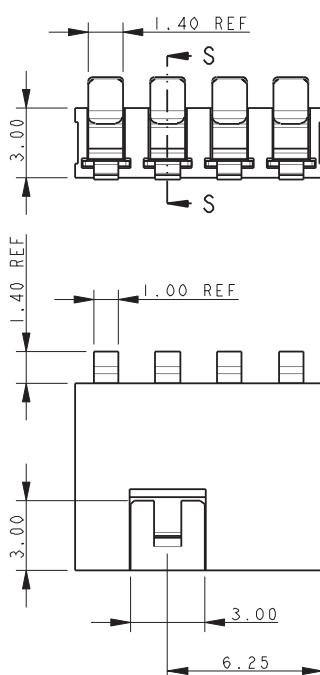
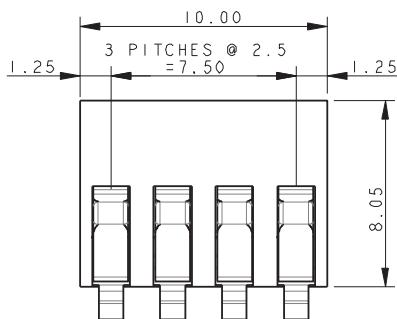
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TRAILER	500MM
REEL / BOX	5



BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

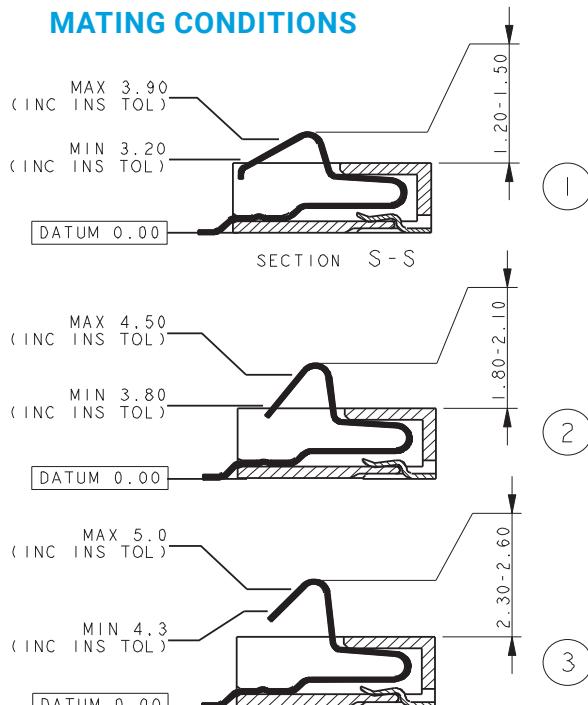
4 WAY BATTERY CONNECTOR



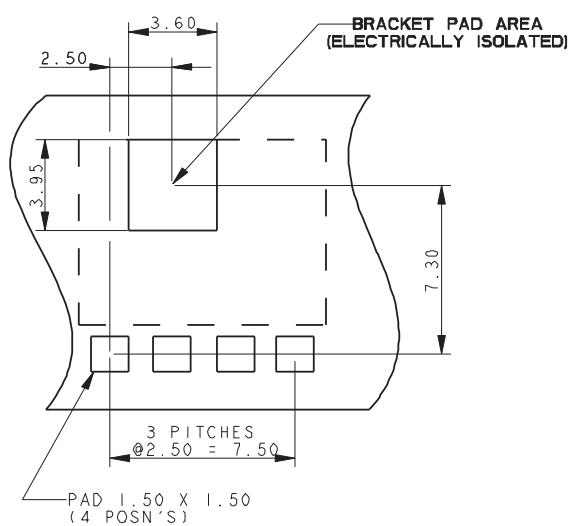
NOTES:

1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
2. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE STATED.
3. FOR MATING PAD DETAILS REFER TO PAGE 6.
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-0. COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

MATING CONDITIONS

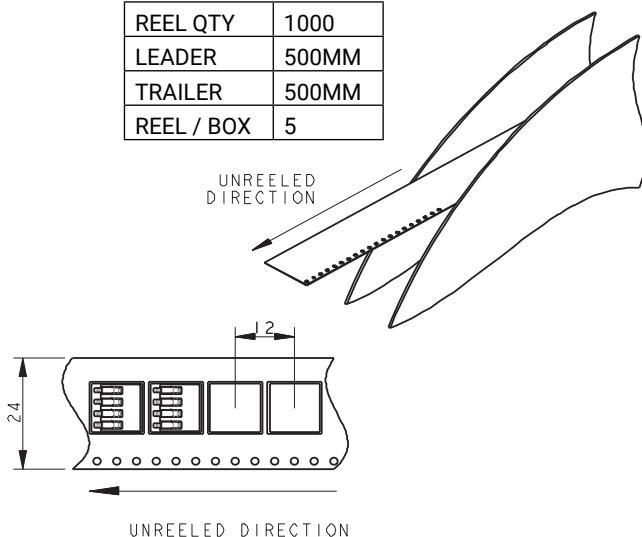


PCB BOARD LAYOUT



PACKING DETAILS

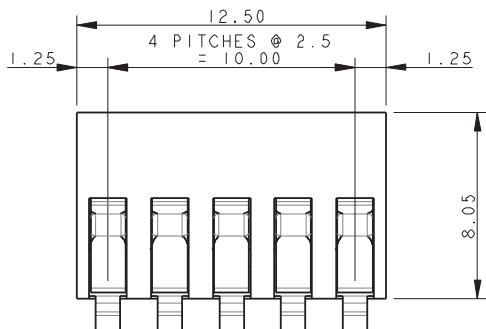
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TRAILER	500MM
REEL / BOX	5



BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

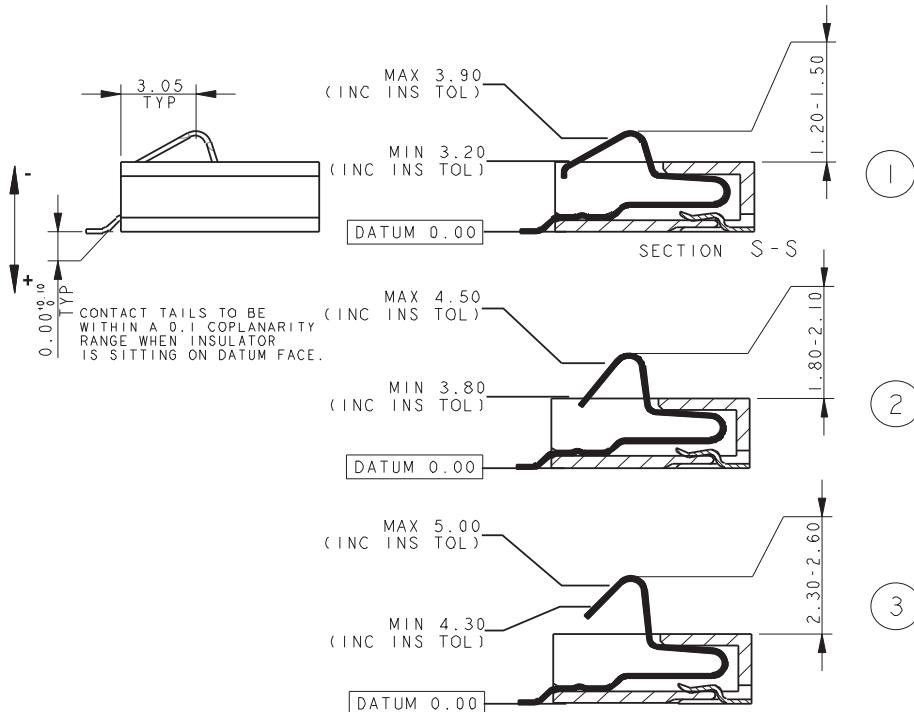
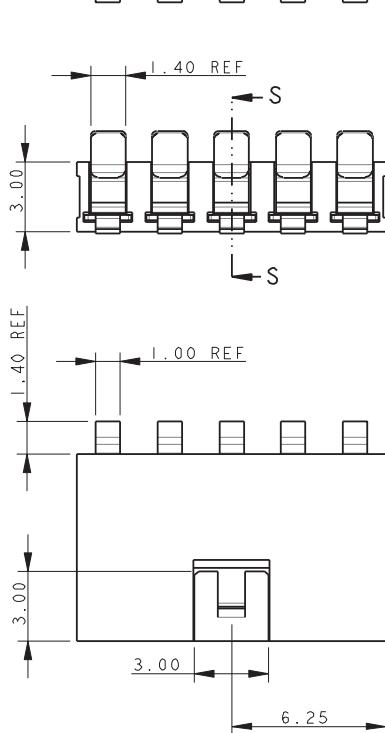
5 WAY BATTERY CONNECTOR



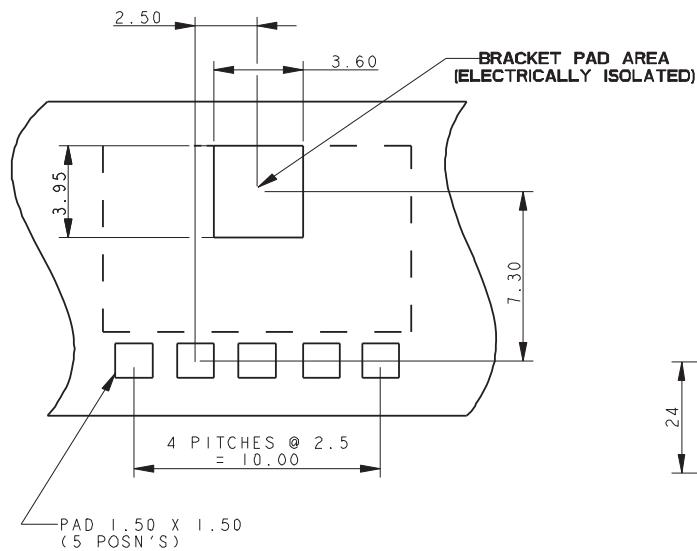
NOTES:

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6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

MATING CONDITIONS

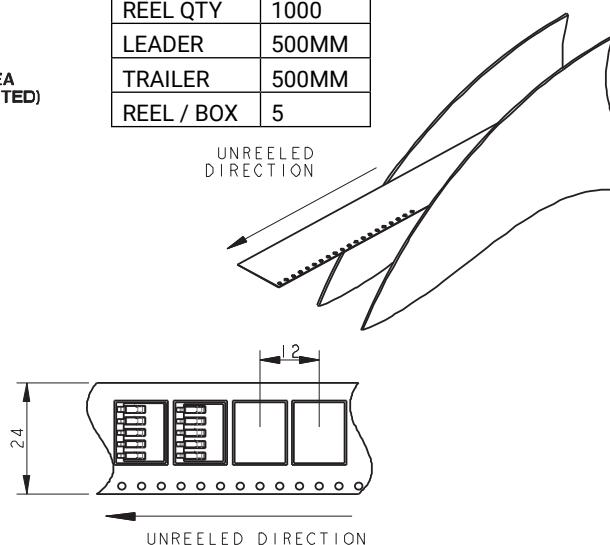


PCB BOARD LAYOUT



PACKING DETAILS

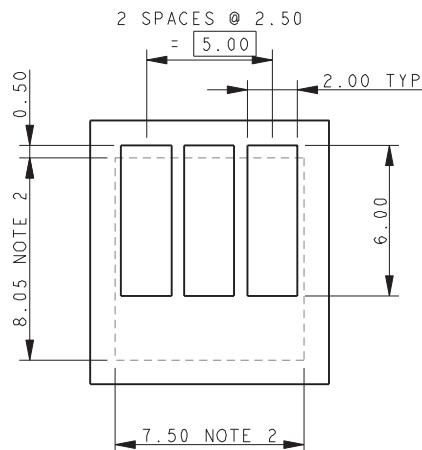
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TRAILER	500MM
REEL / BOX	5



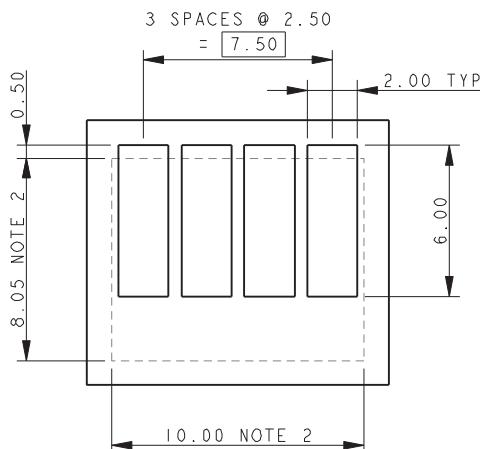
BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

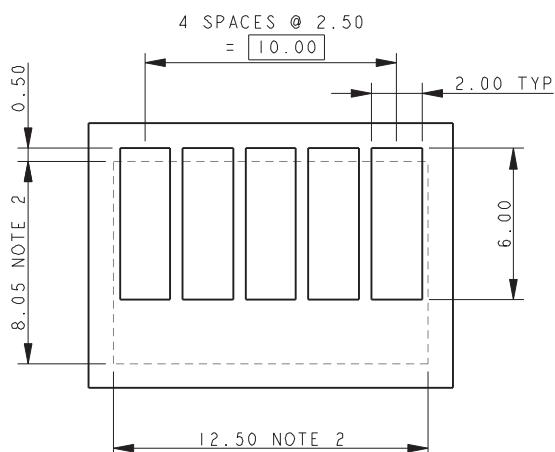
STANDARD BATTERY – MATING PADS



3 WAY MATING PADS



4 WAY MATING PADS



5 WAY MATING PADS

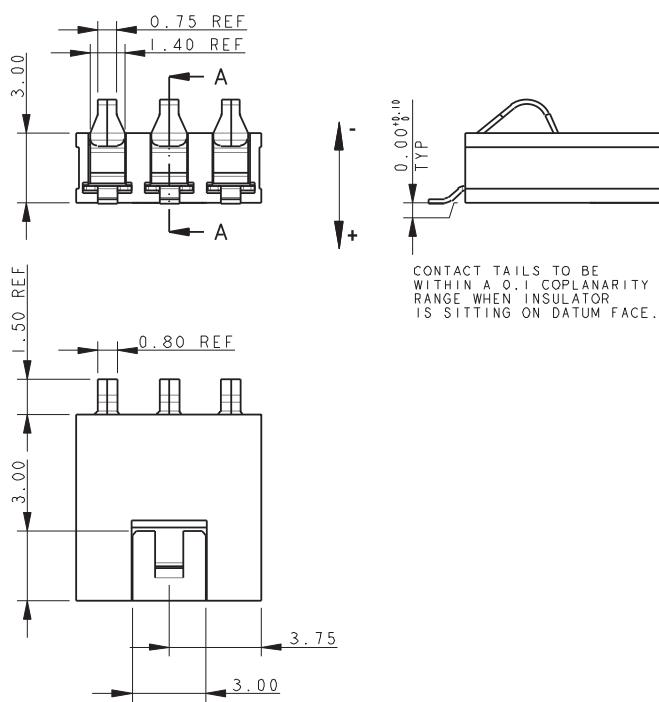
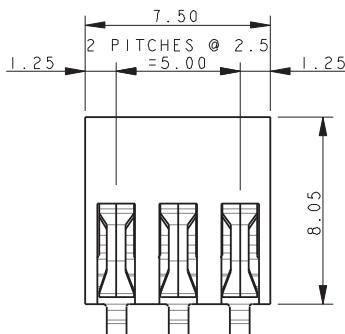
NOTES:

1. SUGGESTED MATING PADS FOR STANDARD BATTERY CONNECTORS.
2. OUTLINE OF CONNECTOR.
3. PREFERRED PLATING ON PADS GOLD OVER NICKEL.
4. PAD LENGTH MAY REQUIRE ADJUSTMENT OF MATCH THE CUSTOMERS ASSEMBLY.
5. REFERENCE DIMENSIONS.

BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

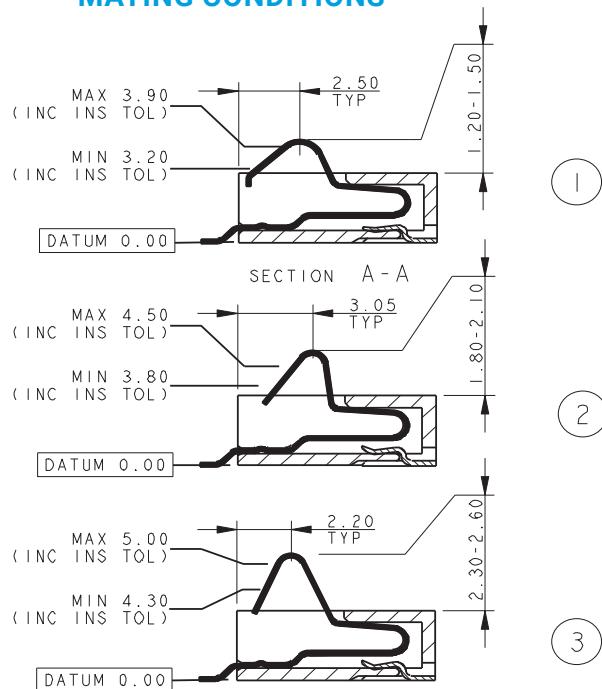
3 WAY BATTERY CONNECTOR REDUCED NOSE



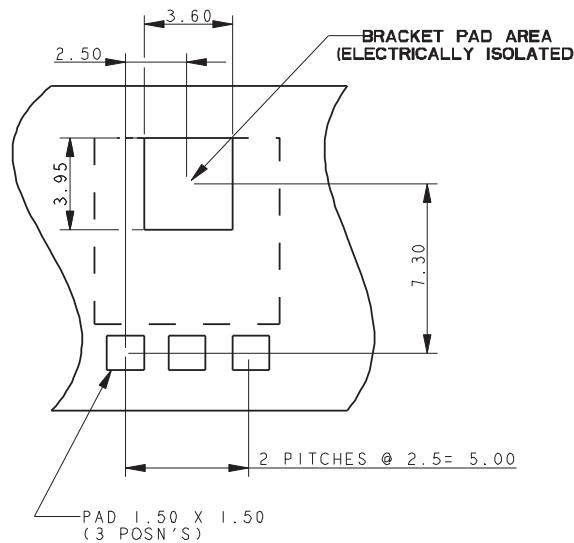
NOTES:

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3. FOR MATING PAD DETAILS REFER TO PAGE 9.
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5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

MATING CONDITIONS

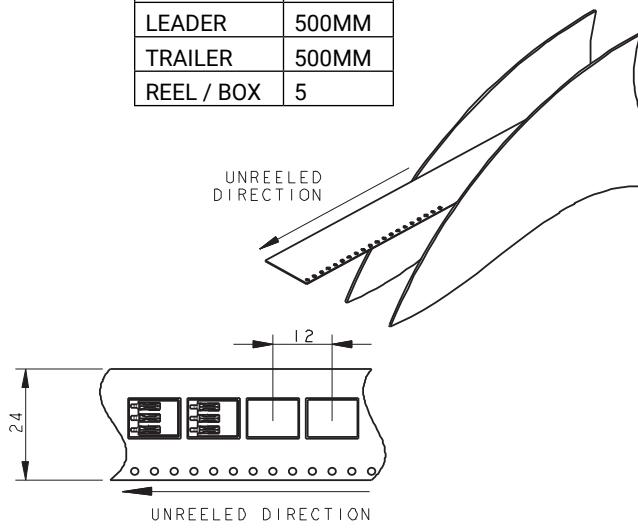


PCB BOARD LAYOUT



PACKING DETAILS

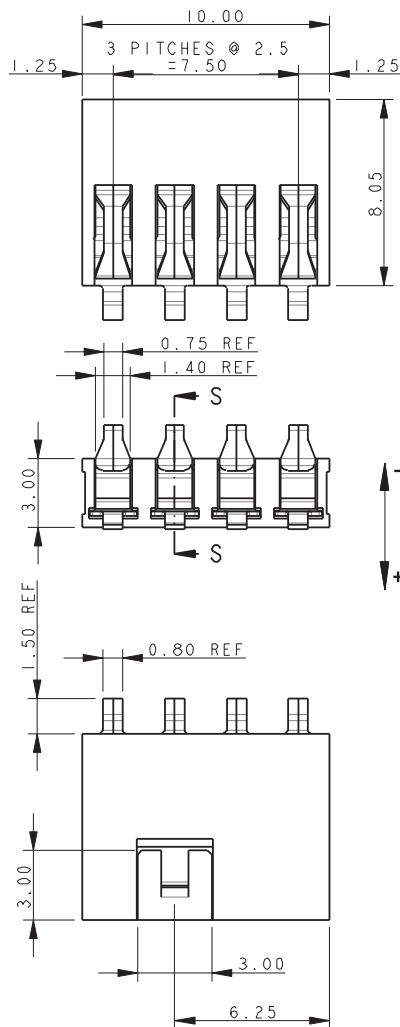
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LEADER	500MM
TRAILER	500MM
REEL / BOX	5



BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

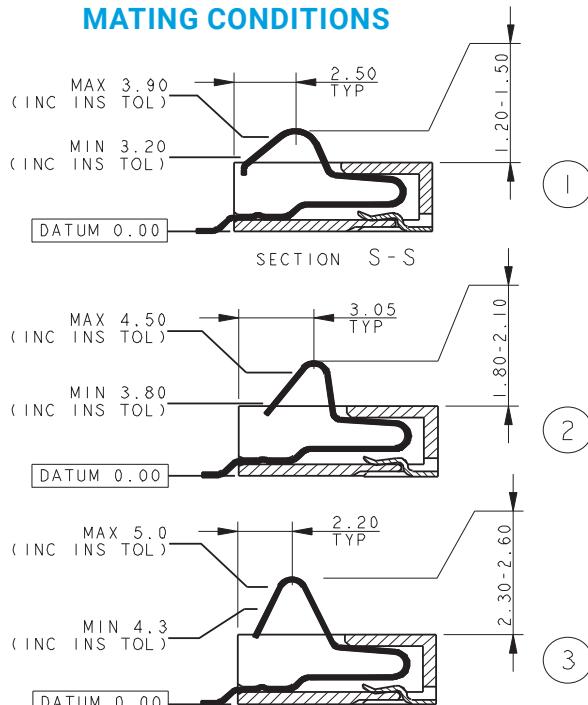
4 WAY BATTERY CONNECTOR REDUCED NOSE



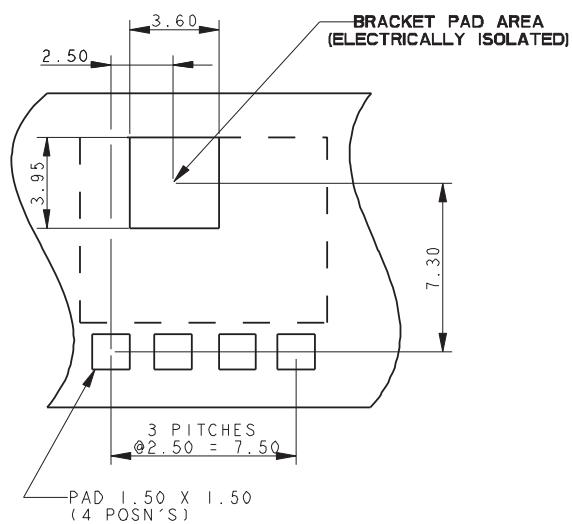
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2. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE STATED.
3. FOR MATING PAD DETAILS REFER TO PAGE 9.
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-0. COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

MATING CONDITIONS

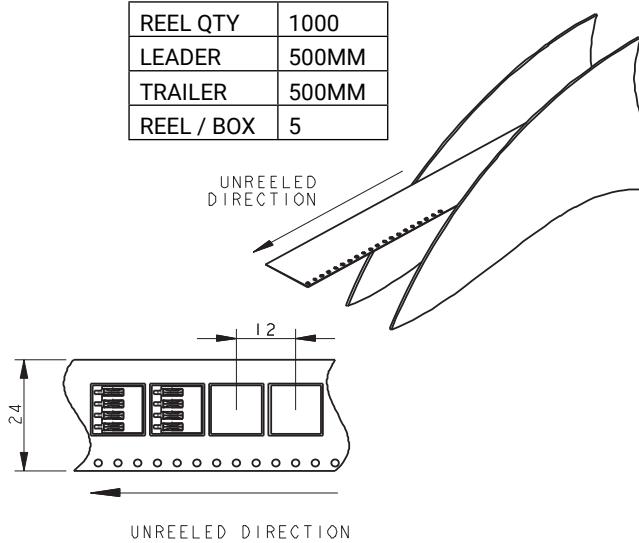


PCB BOARD LAYOUT



PACKING DETAILS

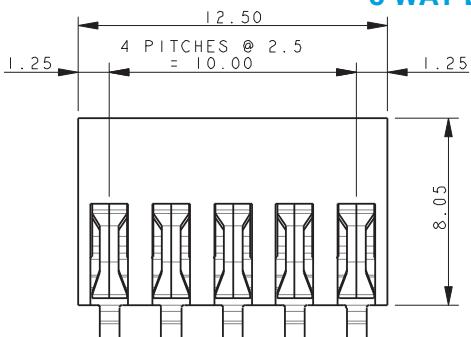
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LEADER	500MM
TRAILER	500MM
REEL / BOX	5



BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

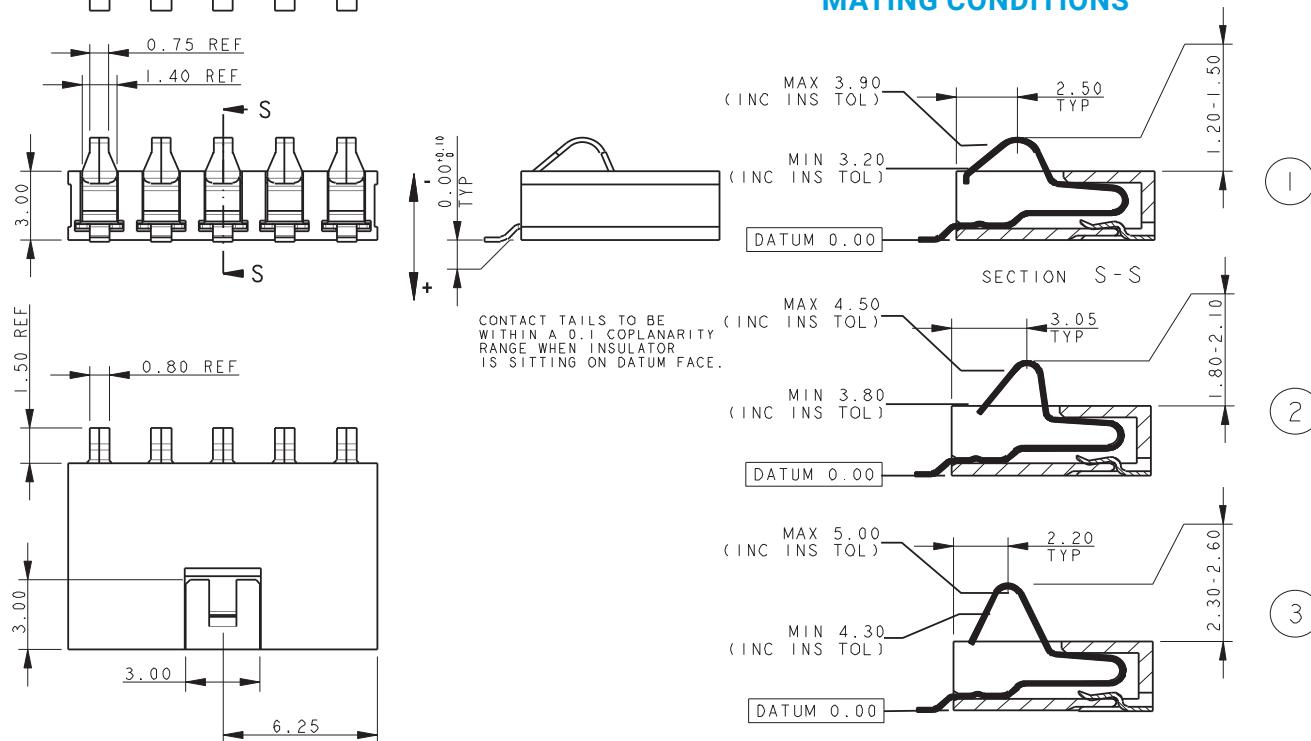
5 WAY BATTERY CONNECTOR REDUCED NOSE



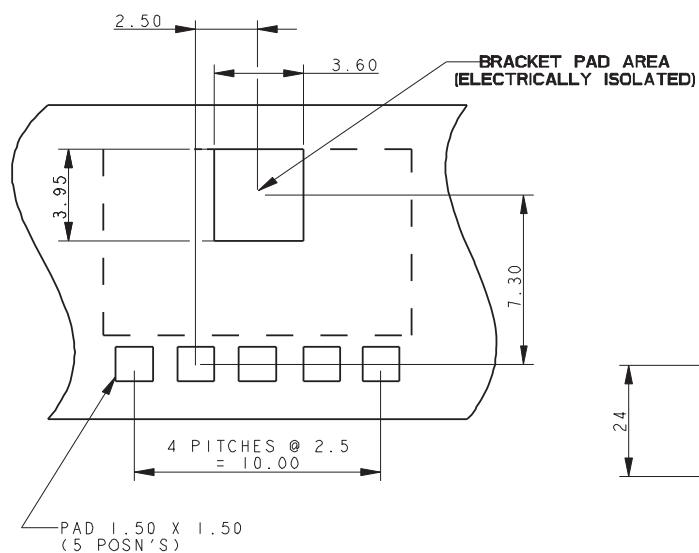
NOTES:

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6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

MATING CONDITIONS

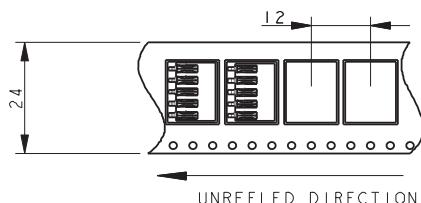
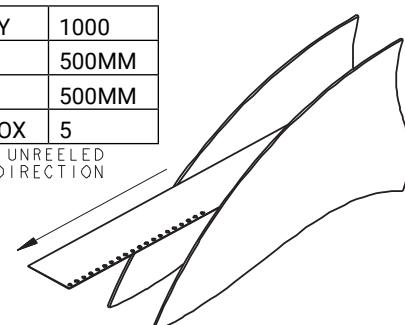


PCB BOARD LAYOUT



PACKING DETAILS

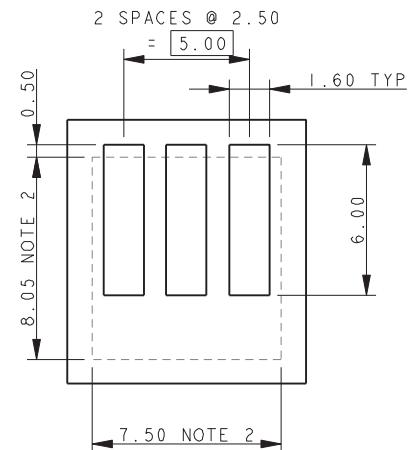
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REEL / BOX	5



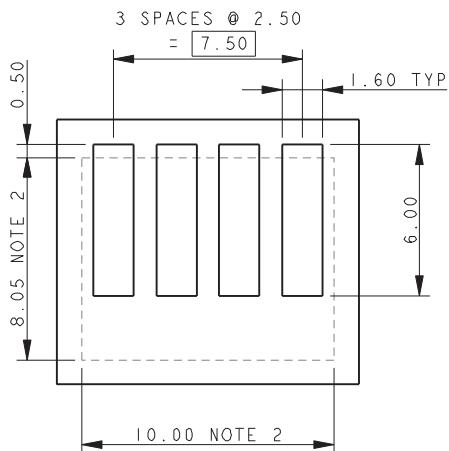
BATTERY CONNECTORS

Standard 2.5mm Pitch 9155-000

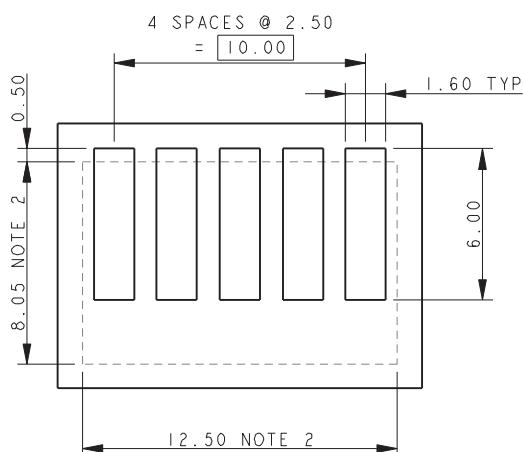
STANDARD BATTERY – MATING PADS



3 WAY MATING PADS



4 WAY MATING PADS



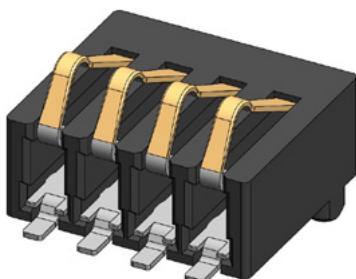
5 WAY MATING PADS

NOTES:

1. SUGGESTED MATING PADS FOR STANDARD BATTERY CONNECTORS.
2. OUTLINE OF CONNECTOR.
3. PREFERRED PLATING ON PADS GOLD OVER NICKEL.
4. PAD LENGTH MAY REQUIRE ADJUSTMENT OF MATCH THE CUSTOMERS ASSEMBLY.
5. REFERENCE DIMENSIONS.

Battery Connector 1.27mm Pitch

9155-020



GENERAL DESCRIPTION

Board-to-Board battery connectors were originally designed for mobile equipment, but now it can be used for much wider range of applications. KYOCERA AVX Interconnect extends their range of board-to-board battery connectors to include a 1.27mm small pitch part. This new version 9155-020 has a nominal working height 2.5-3.1mm. This series includes 2 through 5 position connectors that are end to end stackable. These connectors are rated at a full 3 Amps per contact for 2 & 3 ways and 2 Amps per contact for 4 & 5 ways.

The complete family of connectors 9155 series from Kyocera AVX offer all the same advantages: Ultra reliable and robust gold plated beryllium copper contacts provide high integrity connections in harsh environments, with up to 15000 mating operations. Parts are supplied in tape and reel for automatic pick and place. Whatever your requirements, the 9155 series battery connector can also be customized to suit our applications.

APPLICATIONS

- Handheld/portable devices requiring docking or cradle charging
- Battery packs of portable oxygen generator products
- Patient monitoring or portable medical electronics
- Industrial devices requiring pluggable or programming modules
- Internet appliances requiring battery back-up

SIZES

- 2pos thru 5pos

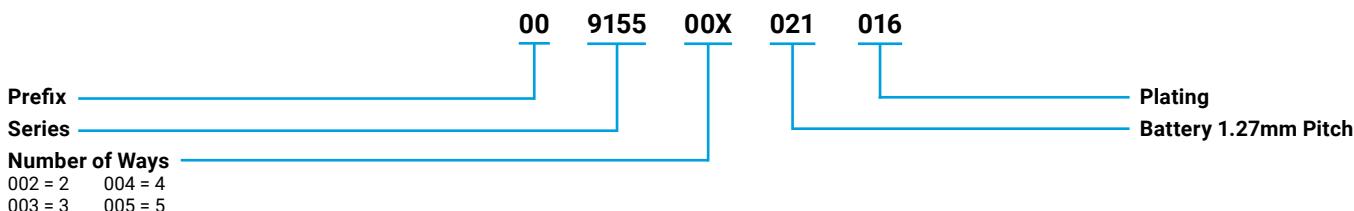
ELECTRICAL

- Voltage Rating: 400 VAC
- Current Rating: 3 Amp / Contact (2 & 3 way)
2 Amp / Contact (4 & 5 way)

ENVIRONMENTAL

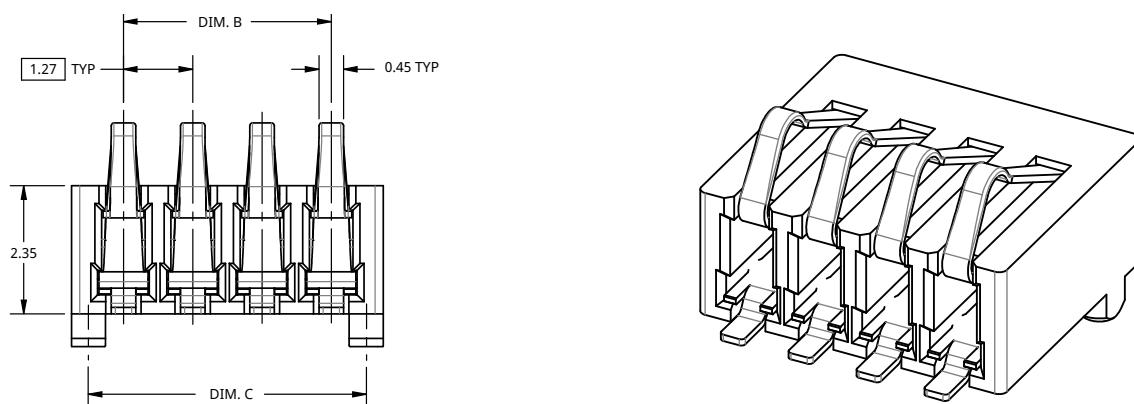
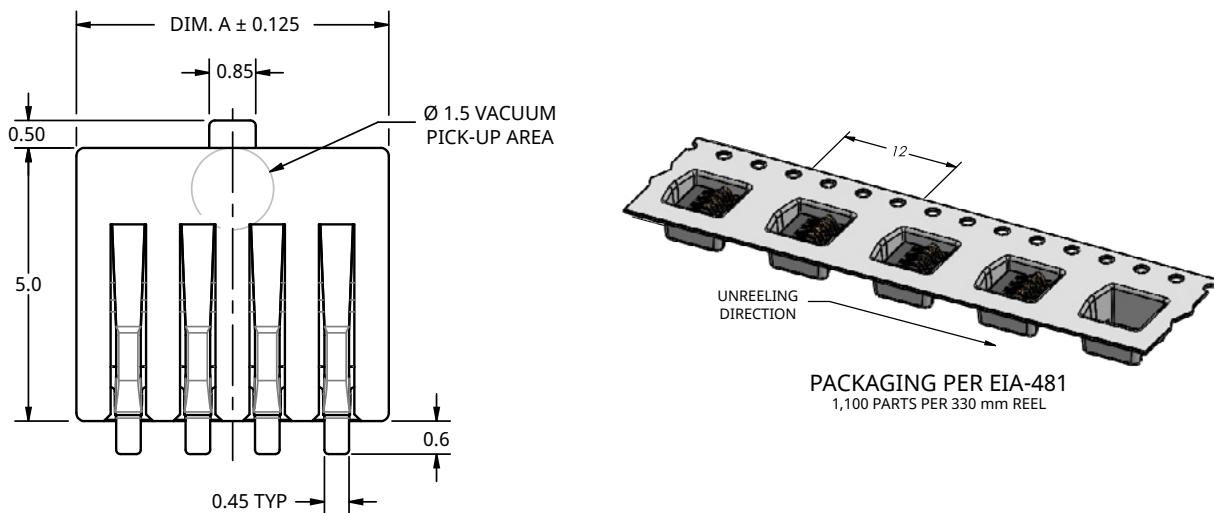
- Operating Temperature: -40°C to +125°C

HOW TO ORDER



Battery Connector 1.27mm Pitch

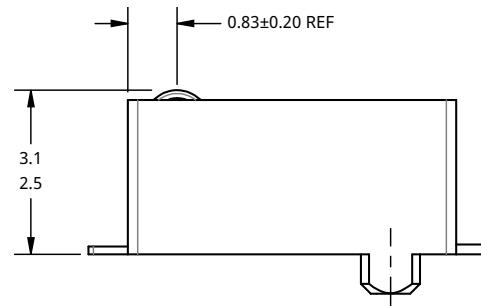
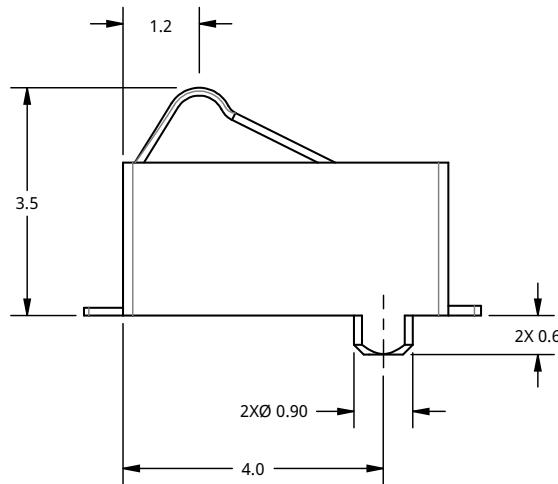
9155-020



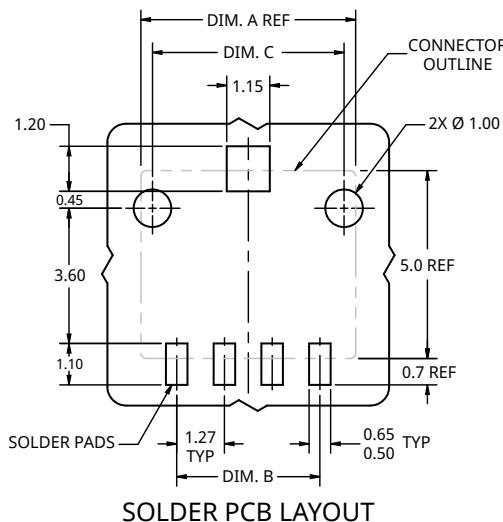
Part Number	POS.	DIM. A	DIM. B	DIM. C
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00-9155-003-021-016	3	4.445	2.54	3.83
00-9155-004-021-016	4	5.715	3.81	5.10
00-9155-005-021-016	5	6.985	5.08	6.37

Battery Connector 1.27mm Pitch

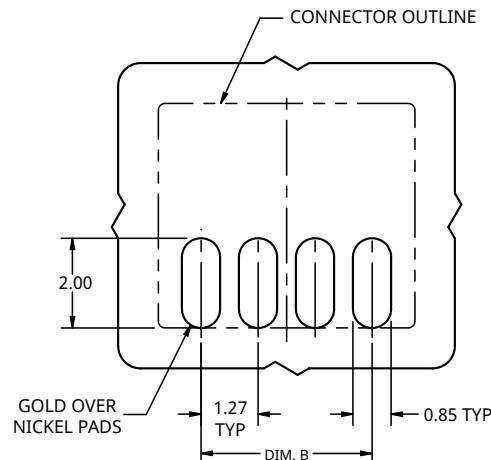
9155-020



WORKING RANGE
SEE NOTE 5



SOLDER PCB LAYOUT



MATING PCB LAYOUT

NOTES:

- HOUSING MATERIAL: GLASS-FILLED THERMOPLASTIC FLAME RETARDANT PER UL94V-0; COLOR: BLACK
- CONTACT MATERIAL: BERYLLIUM COPPER
- PLATING: 0.8 μm MIN DUCTILE NICKEL UNDERPLATE ALL OVER; 0.75 μm MIN HARD GOLD IN CONTACT AREA; 1.5 - 3.0 μm LEAD-FREE MATTE TIN ON TAILS
- SOLDER TAB: TIN-PLATED COPPER ALLOY
- NORMAL FORCE WORKING RANGE: 0.30 TO 0.55 N

BATTERY CONNECTORS

Ultra-Low Profile 2.5mm Pitch 9155-100



KYOCERA AVX has been leading the industry with reliable Board-to-Board (BTB) compression connectors for commercial, medical and harsh industrial applications, obtaining the very first contact patent in the early 1990's. The broad range of connectors offers both signal contacts which support 1 Amp/contact up to 40 position as well as low pin count (LPC) power contacts up to 3 Amps/contact.

The newest addition is the Ultra Low Profile (ULP) power connector that supports a 1.3mm compressed height, the lowest on the market. Gold plated Beryllium Copper (BeCu) contacts offers the most reliable and resilient contact performance in this miniature package. The sweeping contact design offers 0.7mm deflection range, long contact wipe and in excess of 40 grams of contact force at minimum operating deflection. All combined, this connector is rated at an unbelievable 5000 mating cycles for mechanical endurance.

APPLICATIONS

- Low profile power, signal, ground or shielding requirements
- Repeatable/Pluggable module or battery pack requirements
- Low profile flex circuit to PCB applications
- Portable devices

FEATURES AND BENEFITS

- High Reliability / High Cycle Life BeCu contacts for maximum system performance
- ULP 1.3mm minimum operating height with 0.7mm "Z" axis compression/tolerance range
- Gold plating supports a broad range applications based on reliability and environments
- 3 Amp contact rating over a -40°C to +105°C operating range supports a broad application spectrum

ELECTRICAL

- Current Rating: 3 Amps/Contact
- Voltage Rating: 125VAC

ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 V-0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5000 Cycles

HOW TO ORDER

00 9155 00X
Prefix Series No. of Ways
2 = 002
3 = 003

10X		
Low Profile Battery Connector		
Code	Description	Operating Height
100	Low Profile Battery Connector No Stop	1.30 (0.051)
101	Low Profile Battery Connector Stop	1.30 (0.051)

00X	
Plating Option	
Code	Description
006	0.4µm Selective Gold, Standard
008	0.8µm Selective Gold, Special Order



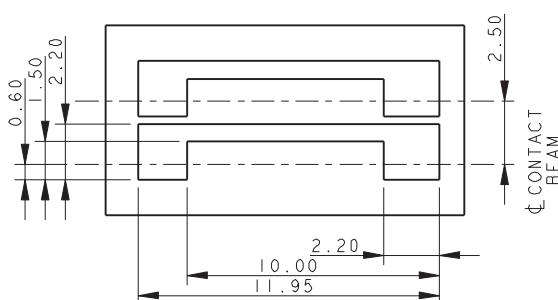
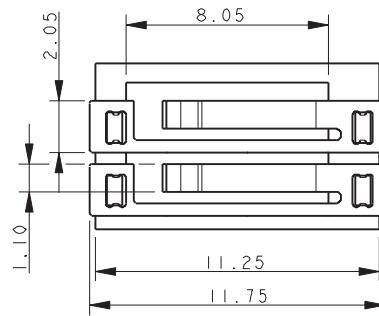
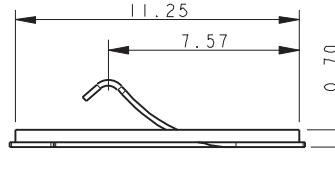
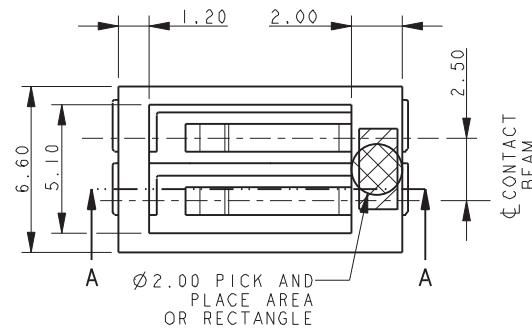
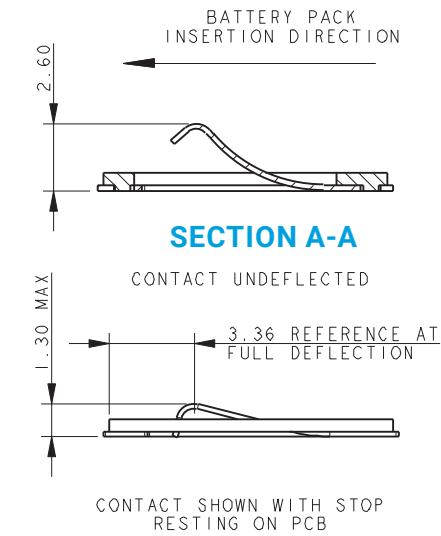
The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

BATTERY CONNECTORS

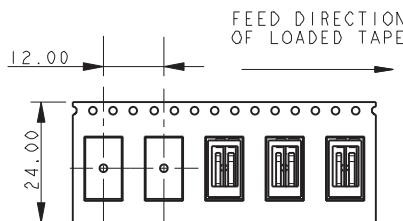
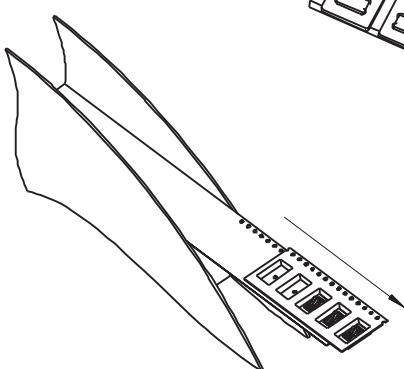
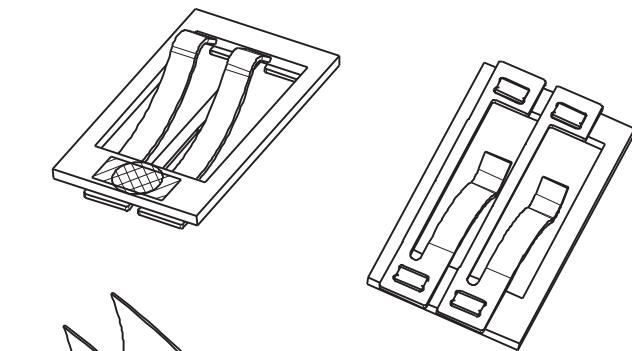
Ultra-Low Profile 2.5mm Pitch 9155-100



2 WAY LOW PROFILE CONNECTOR STOP



SUGGESTED PCB LAYOUT



PACKING DETAILS

REEL QTY	1500
LEADER	500MM

TRAILER

AVX

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NOTES:

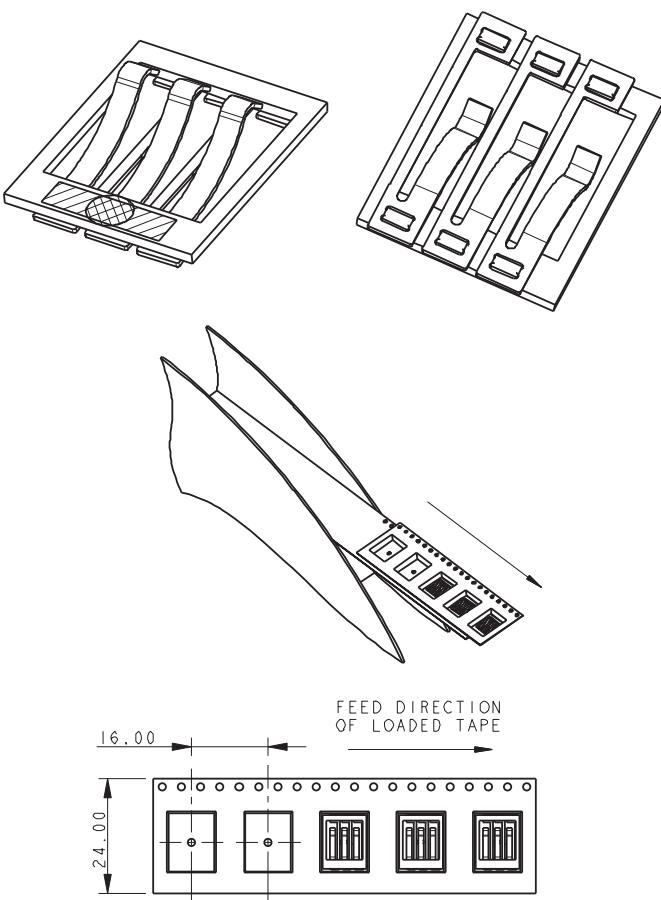
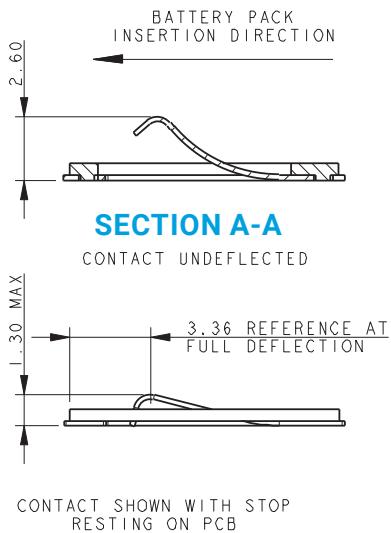
1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
2. MATERIALS: CONTACT - COPPER ALLOY, INSULATOR - GLASS FILLED NYLON. COLOR: BLACK.
3. TOLERANCE ± 0.20 UNLESS SPECIFIED.
4. PACKING DETAILS SEE TABLE.
5. FOR MATING PAD DETAILS REFER TO PAGE 16.

BATTERY CONNECTORS

Ultra-Low Profile 2.5mm Pitch 9155-100



3 WAY LOW PROFILE CONNECTOR NO STOP



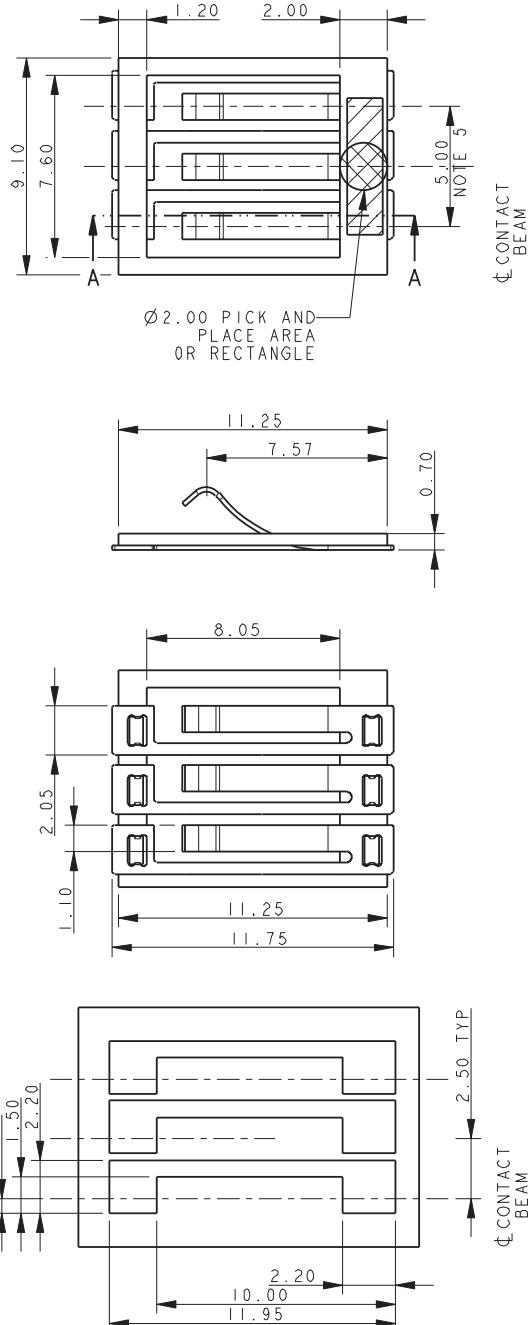
PACKING DETAILS

REEL QTY	1200
LEADER	500MM
TRAILER	500MM



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092921
- SPECIALTY CONNECTORS -



SUGGESTED PCB LAYOUT

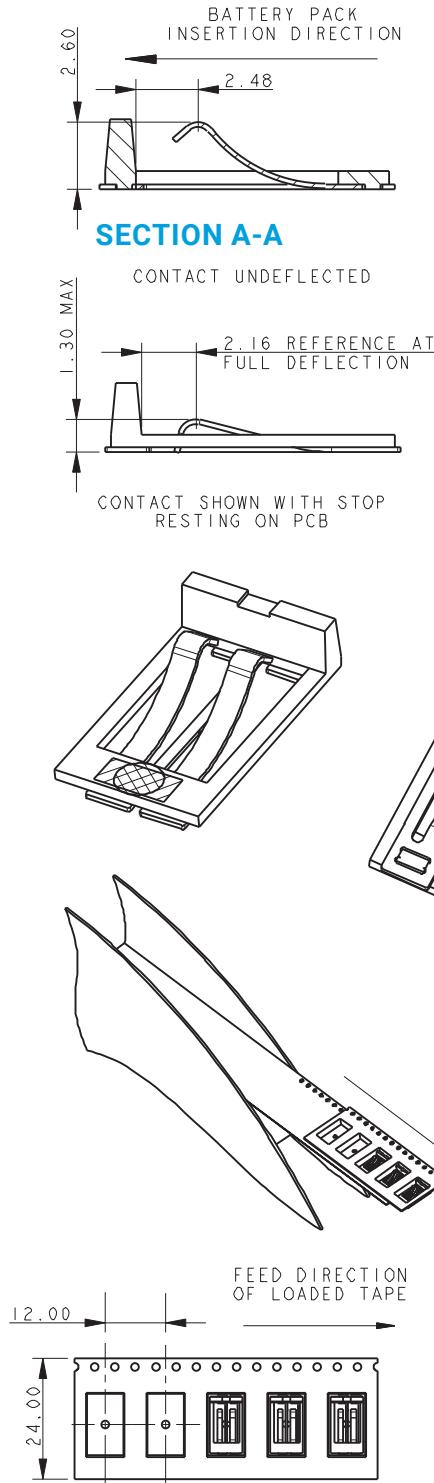
NOTES:

1. FOR FULL PRODUCT SPECIFICATION REFER TO ELC0 SPECIFICATION 201-01-094.
2. MATERIALS: CONTACT - COPPER ALLOY, INSULATOR - GLASS FILLED NYLON. COLOR: BLACK.
3. TOLERANCE ± 0.20 UNLESS SPECIFIED.
4. PACKING DETAILS SEE TABLE.
5. 2 EQUAL PITCHES @ 2.50 = 5.00.
6. FOR MATING PAD DETAILS REFER TO PAGE 16.

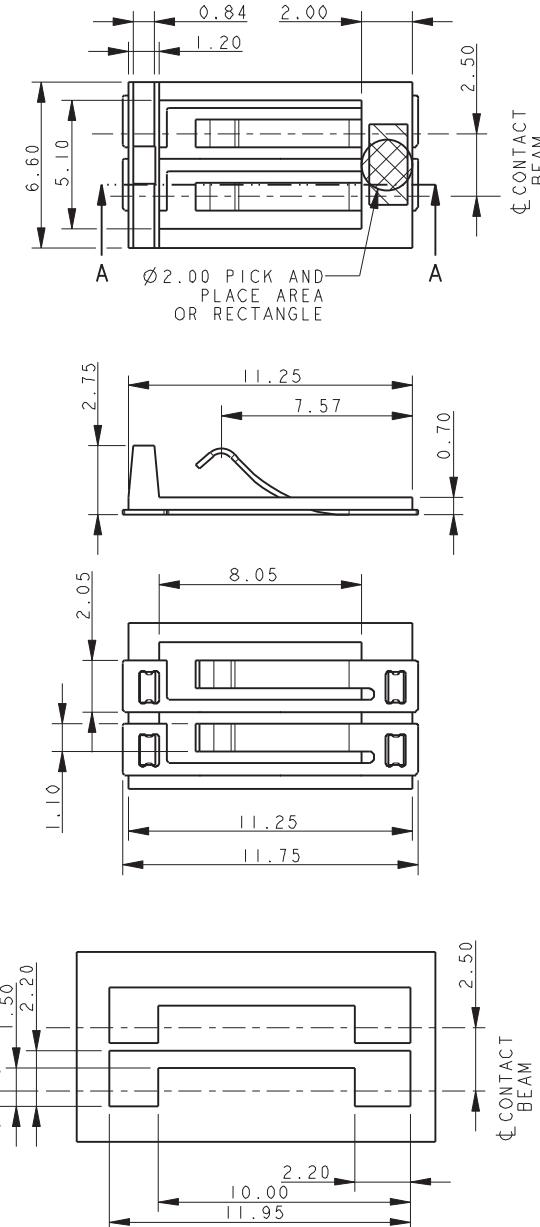
BATTERY CONNECTORS

Ultra-Low Profile 2.5mm Pitch 9155-100

2 WAY LOW PROFILE CONNECTOR WITH STOP



REEL QTY	1500
LEADER	500MM
TRAILER	500MM



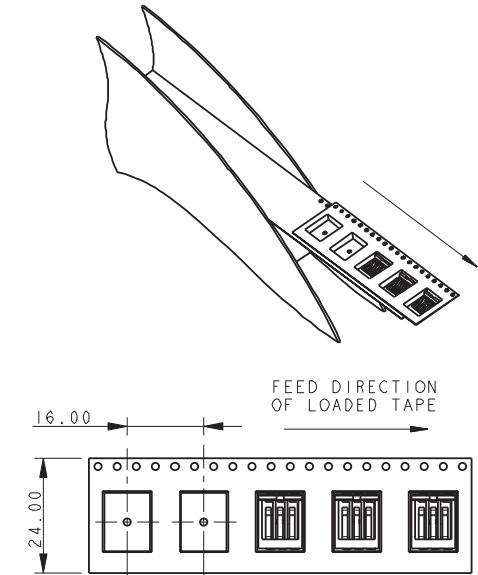
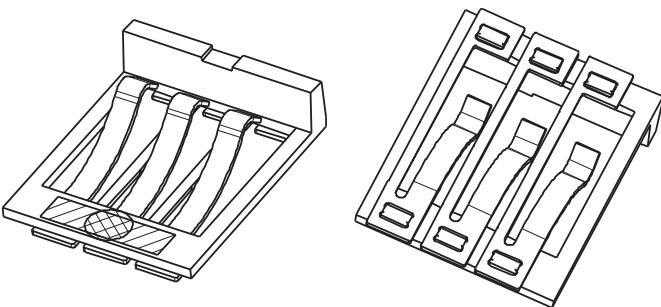
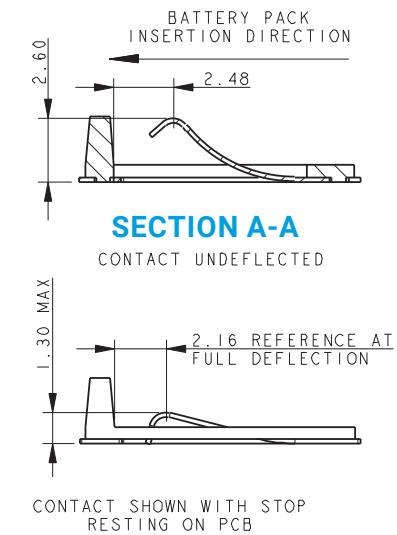
NOTES:

1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
2. MATERIALS: CONTACT - COPPER ALLOY, INSULATOR - GLASS FILLED NYLON. COLOR: BLACK.
3. TOLERANCE ± 0.20 UNLESS SPECIFIED.
4. PACKING DETAILS SEE TABLE.
5. FOR MATING PAD DETAILS REFER TO PAGE 16.

BATTERY CONNECTORS

Ultra-Low Profile 2.5mm Pitch 9155-100

3 WAY LOW PROFILE CONNECTOR WITH STOP

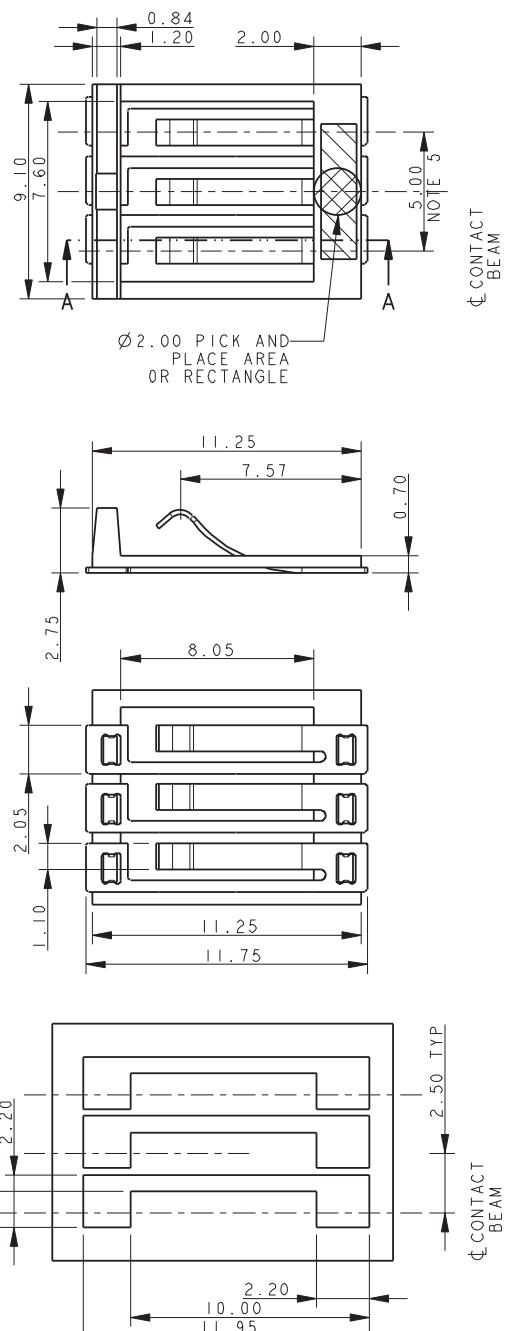


PACKING DETAILS

Reel Qty	1200
Leader	500MM
Trailer	500MM



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SUGGESTED PCB LAYOUT

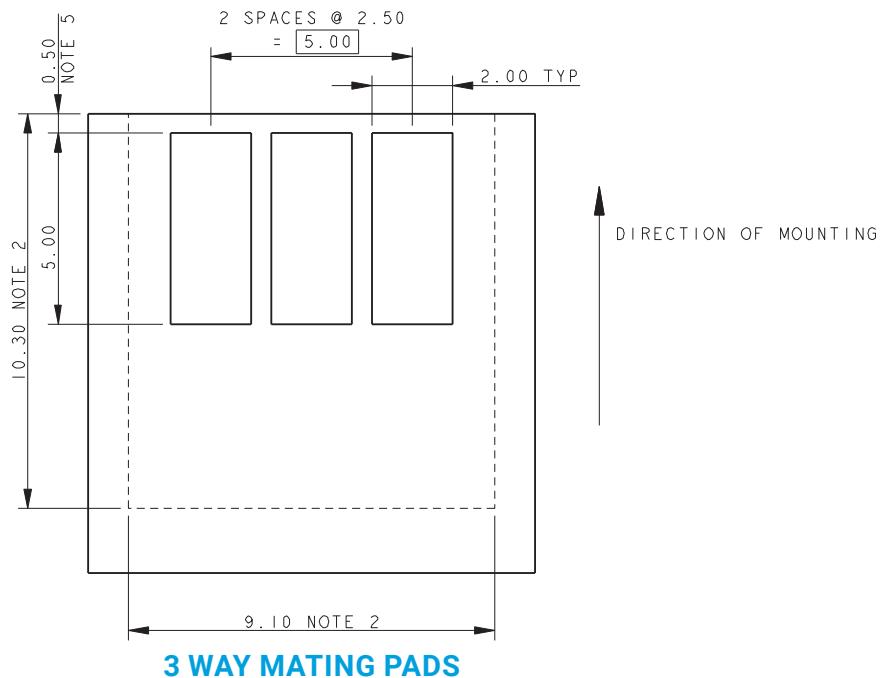
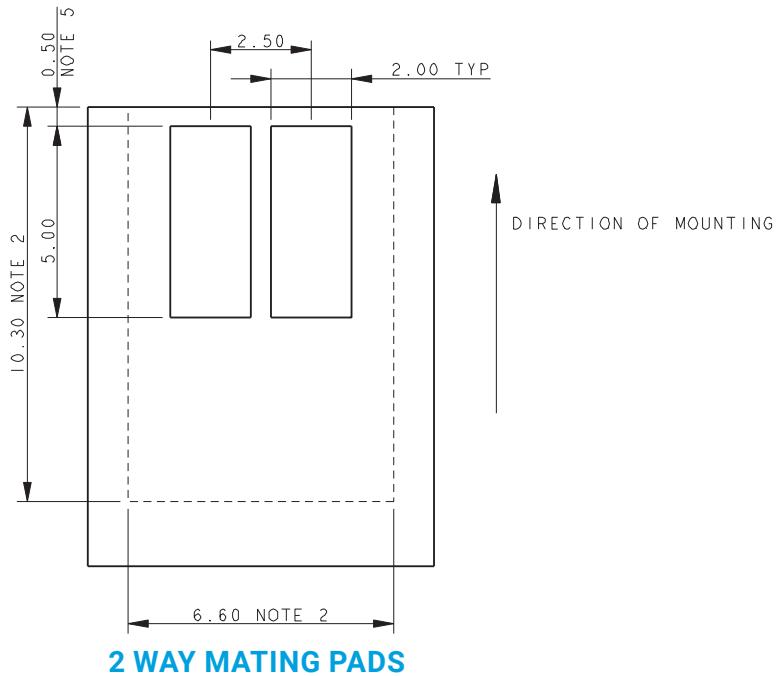
NOTES:

1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
2. MATERIALS: CONTACT - COPPER ALLOY, INSULATOR - GLASS FILLED NYLON. COLOR: BLACK.
3. TOLERANCE ± 0.20 UNLESS SPECIFIED.
4. PACKING DETAILS SEE TABLE.
5. 2 EQUAL PITCHES @ 2.50 = 5.00.
6. FOR MATING PAD DETAILS REFER TO PAGE 16.

BATTERY CONNECTORS

Ultra-Low Profile 2.5mm Pitch 9155-100

LOW PROFILE MATING PADS

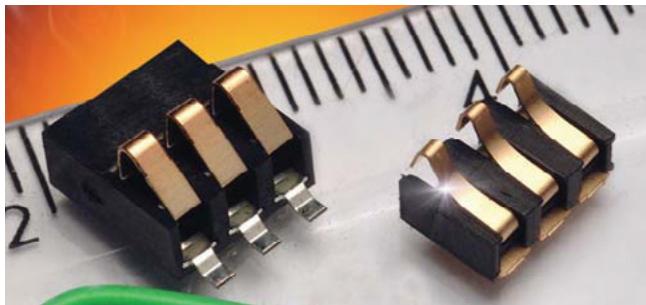


NOTES:

1. SUGGESTED MATING PADS FOR LOW PROFILE BATTERY CONNECTORS.
2. OUTLINE OF CONNECTOR.
3. PREFERRED PLATING ON PADS GOLD OVER NICKEL.
4. REFERENCE DIMENSIONS.
5. DIMENSION TO EDGE OF BOARD FOR CONNECTORS WITH STOP.

BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-200



The newest product in KYOCERA AVX Interconnect family of battery connectors saves 50% in volume over the initial 9155 series compression connectors as illustrated in the photograph. These connectors are rated at a full 3 amps per contact on 2.5mm centers. Sizes range from 2 positions through 5 positions and are end to end stackable.

APPLICATIONS

- Cellular Phones
- Handheld Devices
- Industrial Modules
- Medical Electronics

FEATURES AND BENEFITS

- 2.4mm insulator height
- 3 amps/contact
- Large SMT mounting area for positive mechanical attachment
- 5k mating cycles
- End-to-end stackable

ELECTRICAL

- Current Rating: 3 Amp / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 HB
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5000 Cycles

HOW TO ORDER

00

9155

Prefix

Series

00X

No. of Ways

2 = 002
3 = 003
4 = 004
5 = 005

201

Reduced Size
Battery Connector

Code	Description
201	Reduced Size Battery Connector

00X

Plating Option

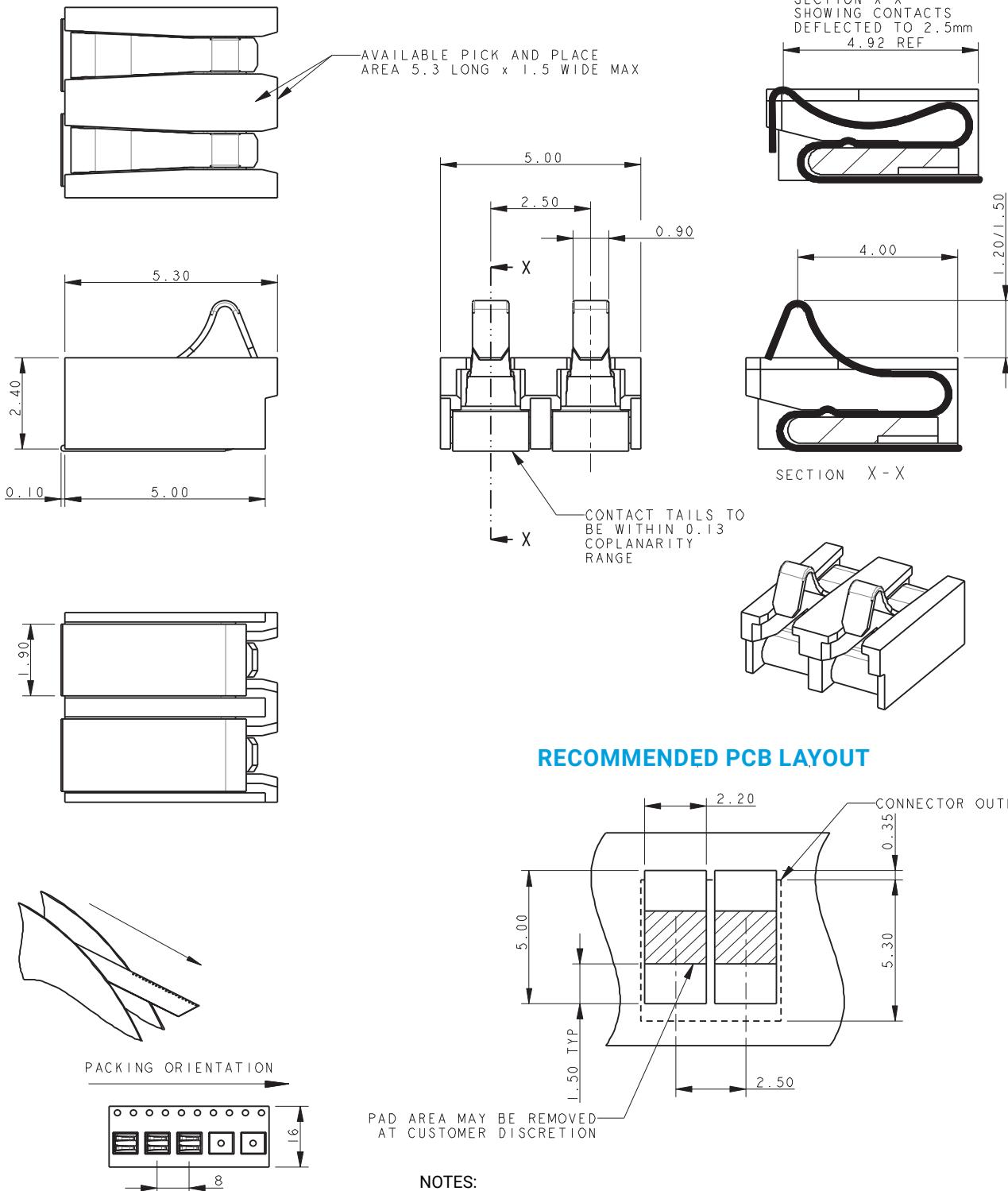
Code	Description
006	0.4µm Selective Gold, Standard
008	0.8µm Selective Gold, Special Order



BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-200

2 WAY REDUCED SIZE BATTERY CONNECTOR



PACKING DETAILS

Reel Qty	2000
Leader	500MM
Trailer	500MM

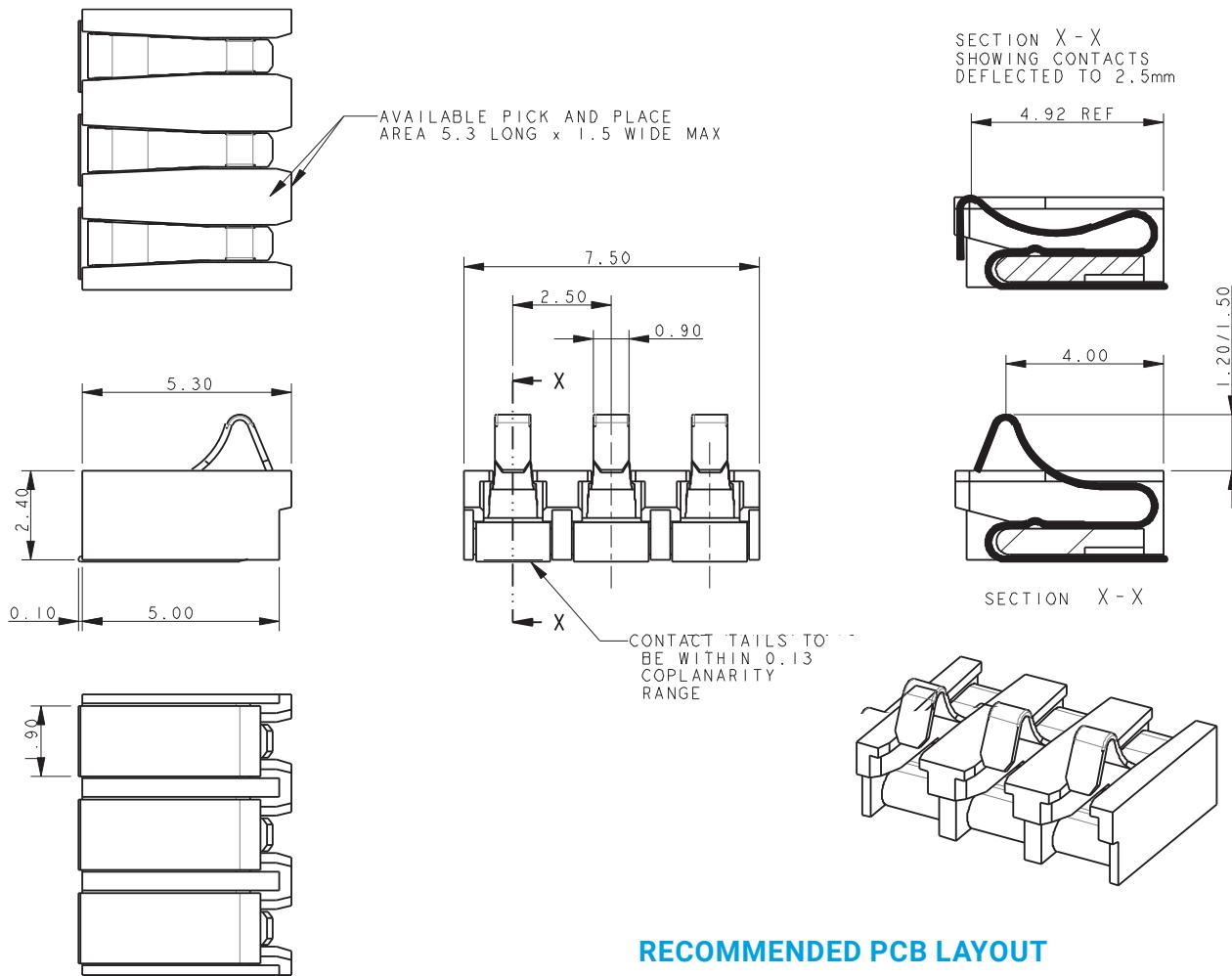
NOTES:

1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-093.
2. FOR MATING PAD DETAILS REFER TO PAGE 22.
3. GENERAL TOLERANCE ± 0.20 .
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 HB, COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.

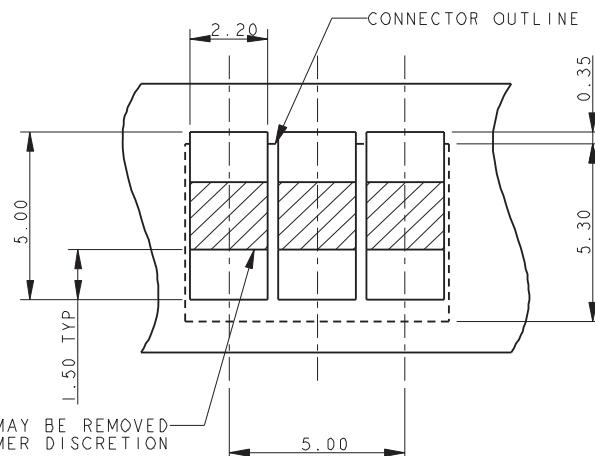
BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-200

3 WAY REDUCED SIZE BATTERY CONNECTOR



RECOMMENDED PCB LAYOUT



NOTES:

1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-093.
2. FOR MATING PAD DETAILS REFER TO PAGE 22.
3. GENERAL TOLERANCE ± 0.20 .
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 HB, COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.

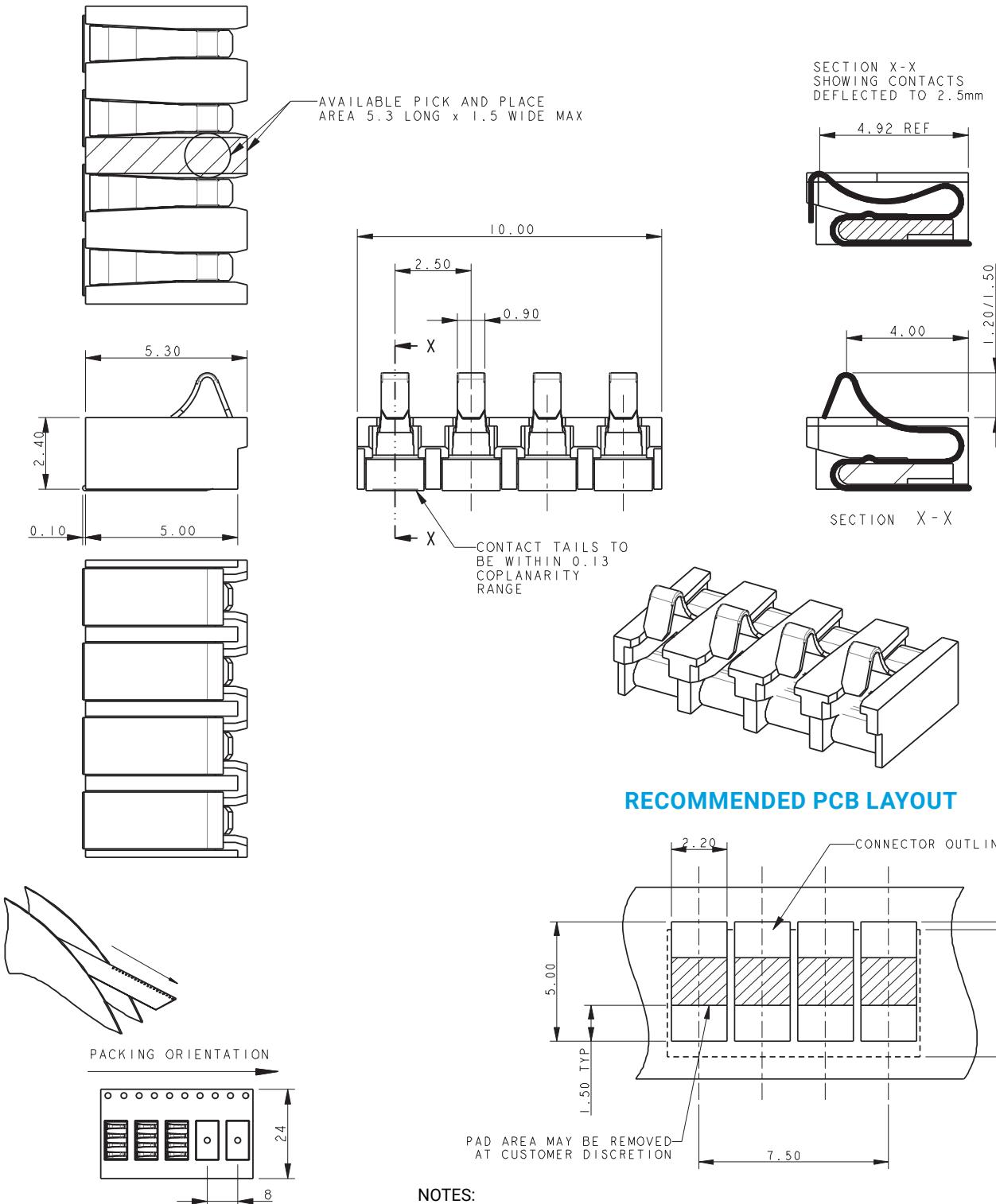
PACKING DETAILS

REEL QTY	2000
LEADER	500MM
TRAILER	500MM

BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-200

4 WAY REDUCED SIZE BATTERY CONNECTOR



PACKING DETAILS

REEL QTY	2000
LEADER	500MM
TRAILER	500MM

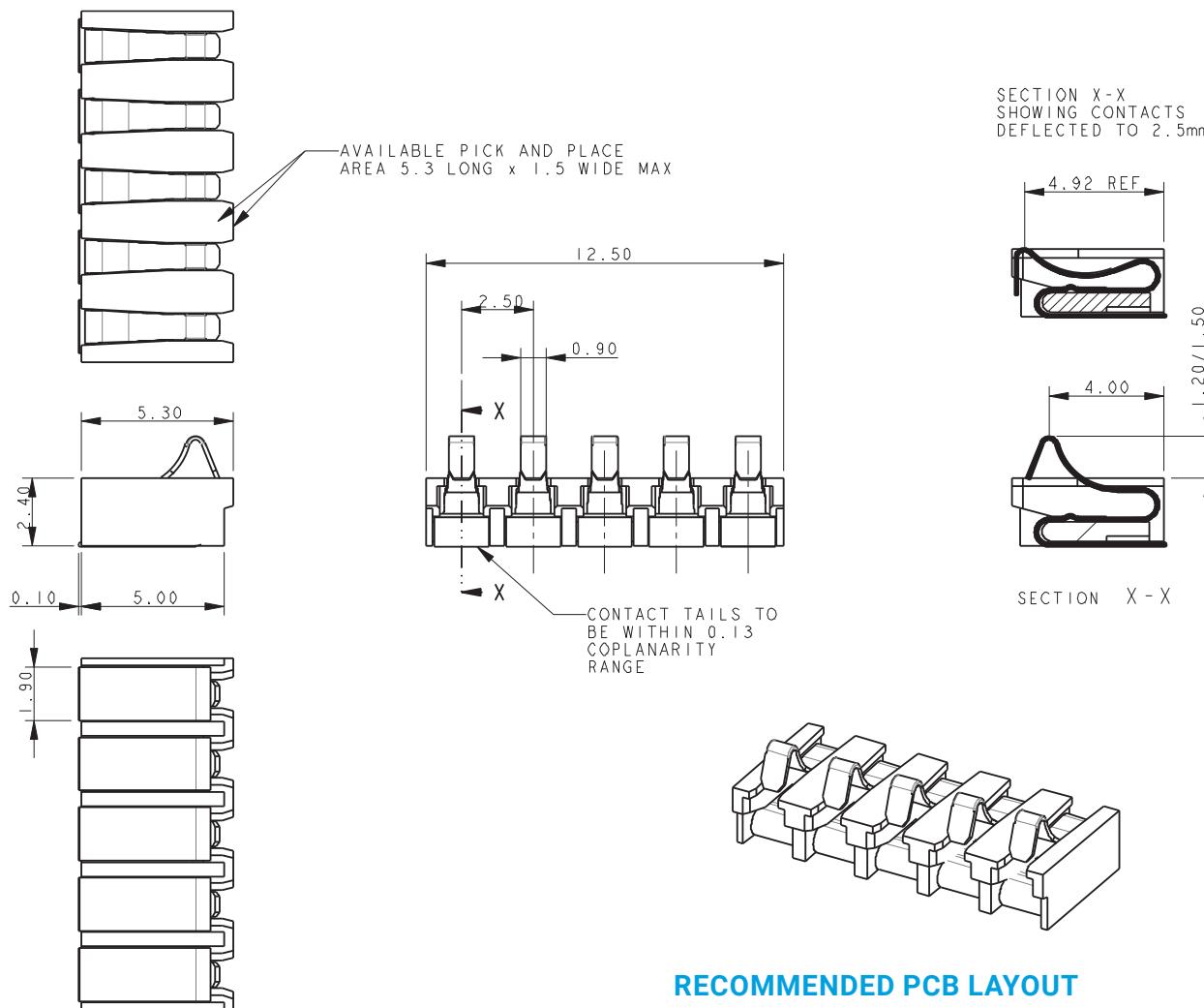
NOTES:

1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-093.
2. FOR MATING PAD DETAILS REFER TO PAGE 22.
3. GENERAL TOLERANCE ± 0.20 .
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 HB, COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.

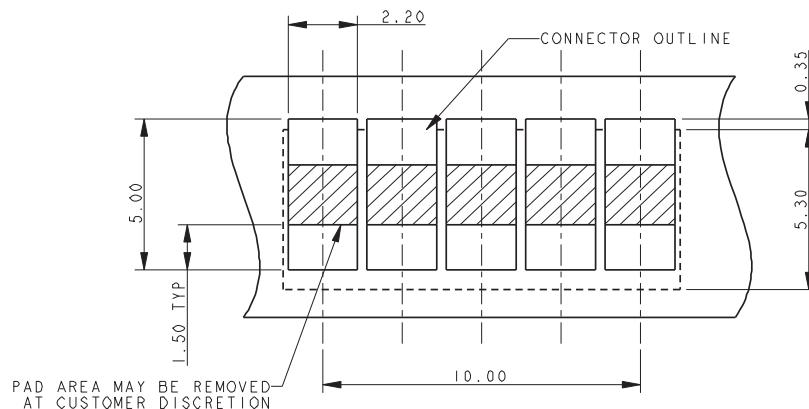
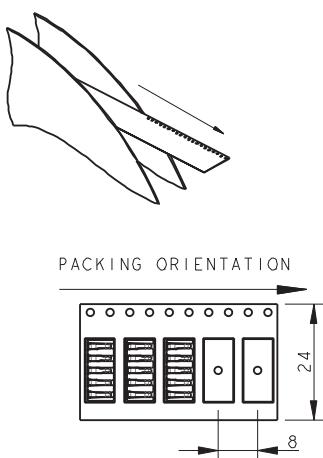
BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-200

5 WAY REDUCED SIZE BATTERY CONNECTOR



RECOMMENDED PCB LAYOUT



NOTES:

1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-093.
2. FOR MATING PAD DETAILS REFER TO PAGE 22.
3. GENERAL TOLERANCE ± 0.20 .
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 HB, COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.

PACKING DETAILS

REEL QTY	2000
LEADER	500MM
TRAILER	500MM

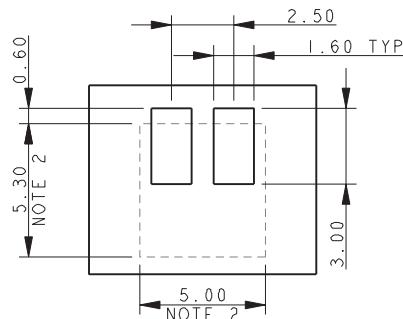


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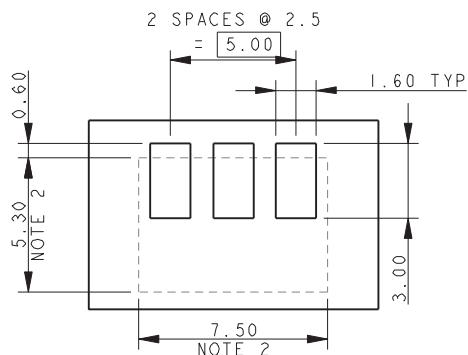
BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-200

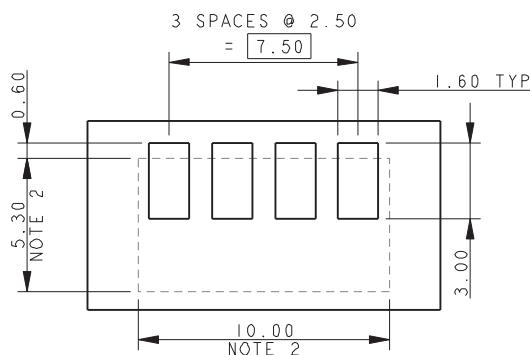
REDUCED SIZE BATTERY CONNECTOR – MATING PADS



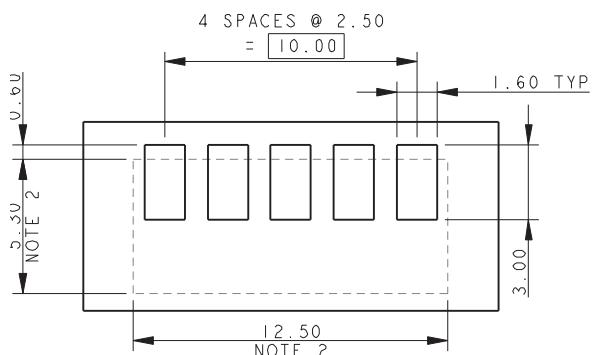
2 WAY MATING PADS



3 WAY MATING PADS



4 WAY MATING PADS



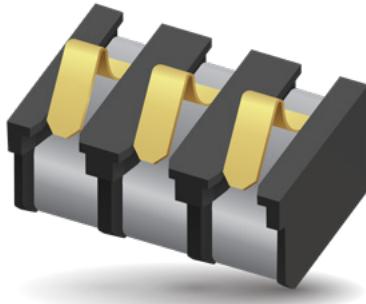
5 WAY MATING PADS

NOTES:

1. SUGGESTED MATING PADS FOR REDUCED SIZE BATTERY CONNECTORS.
2. OUTLINE OF CONNECTOR.
3. PREFERRED PLATING ON PADS GOLD OVER NICKEL.
4. REFERENCE DIMENSIONS.

BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-250



GENERAL DESCRIPTION

KYOCERA AVX Interconnect extends their range of board-to-board reduced battery connectors. This new version 9155-250 has a nominal working height of 4.5mm compared with the existing 9155-200 which has a nominal working height of 3mm. These connectors are rated at a full 3 Amps per contact on 2.5mm centers. This series includes 2 through 5 position connectors that are end to end stackable.

The complete family of connectors 9155 series from KYOCERA 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. Additionally, 9155-250 is made from halogen free nylon.

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

- Insulator height 3.6mm
- Gold plated BeCu contacts provide high electrical and mechanical performance over 5000 mating cycles
- Halogen free high temperature nylon plastic, UL94V-0 rated
- End-to-end stackable

ELECTRICAL

- Current Rating: 3 Amp/Contact
- Voltage Rating: 125 VAC



ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: High Temperature Halogen Free Plastic to UL94V-0 rated
- Contact Material: Beryllium Copper
- Plating: Gold on Nose, Pure Tin SMT terminations over base Nickel
- Durability: 5000 Cycles

HOW TO ORDER

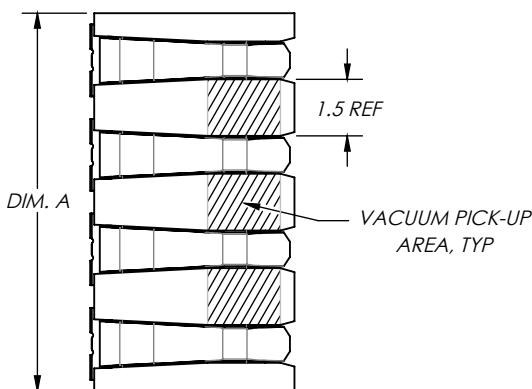
00 9155 00X
 Prefix Series No. of Ways
 2 = 002
 3 = 003
 4 = 004
 5 = 005

251
 Reduced Size
 Battery Connector
 Code Description
 251 Reduced 2.5mm Size
 Battery Connector

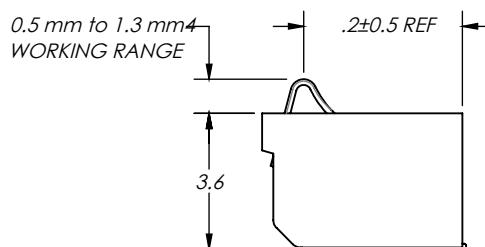
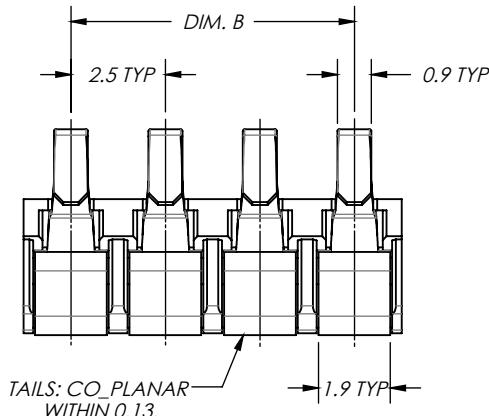
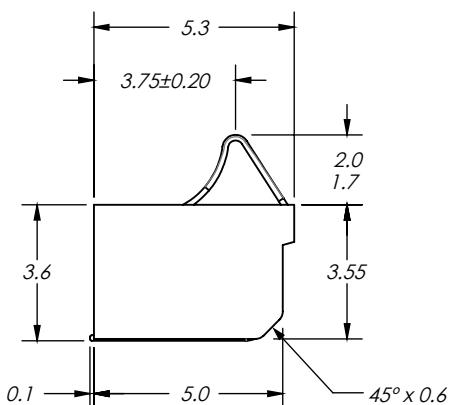
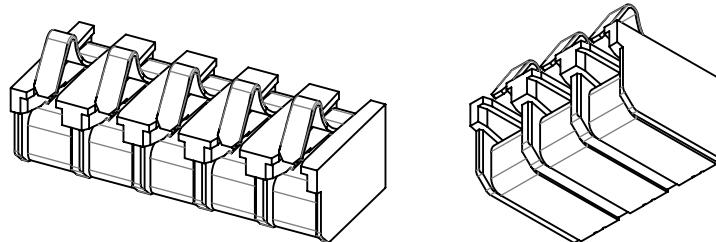
00X
 Plating Option
 Code Description
 006 0.4µm Selective Gold, Standard

BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-250



3 AND 5 POSITION PARTS



PART AS DEFLECTED

Part Number	Positions	DIM. A	DIM. B	Tape Width
00-9155-002-251-006	2	5.00	2.50	16.0
00-9155-003-251-006	3	7.50	5.00	16.0
00-9155-004-251-006	4	10.00	7.50	24.0
00-9155-005-251-006	5	12.50	10.00	24.0

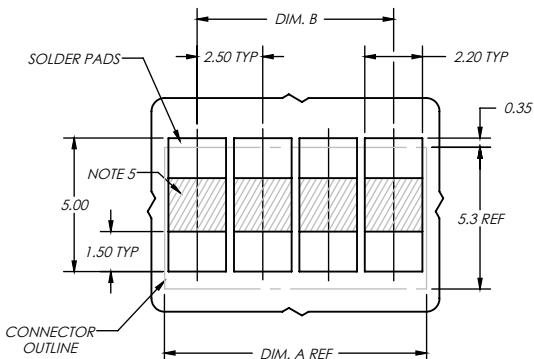
NOTES:

1. FOR MORE DETAILED INFORMATION, SEE KYOCERA AVX PRODUCT SPECIFICATION #201-01-093.
2. HOUSING MATERIAL: GLASS-FILLED STANYL 4T; FLAME RETARDANT PER UL94V-0; HALOGEN FREE, COLOR: BLACK.
3. CONTACT MATERIAL: BERYLLIUM-COPPER.
4. CONTACT PLATING: NICKEL UNDERPLATE ALL OVER; 0.4 μ m MIN. GOLD IN CONTACT AREA; LEAD-FREE TIN ON TAILS.
5. 2.20 x 5.00 SOLDER PADS MAY BE CONTINUOUS, OR THE SHADED PORTION MAY BE REMOVED—AT CUSTOMER'S DISCRETION.

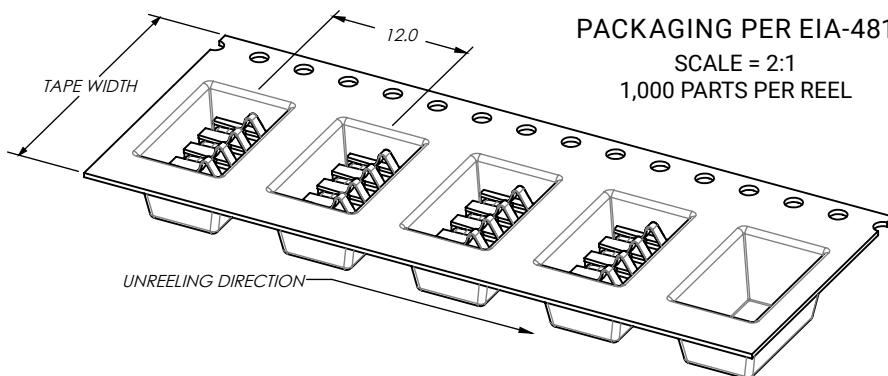
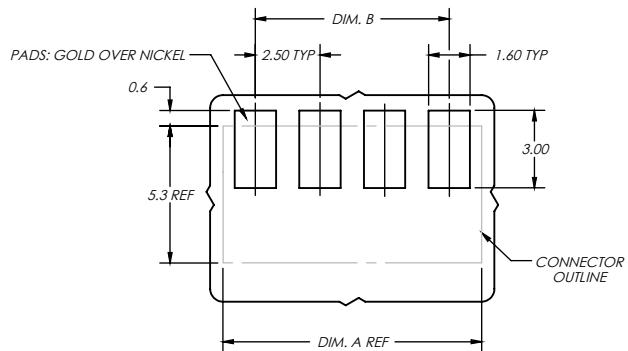
BATTERY CONNECTORS

Reduced 2.5mm Pitch 9155-250

RECOMMENDED LAYOUT SOLDER SIDE PCB



RECOMMENDED LAYOUT MATING SIDE PCB



Part Number	Positions	DIM. A	DIM. B	Tape Width
00-9155-002-251-006	2	5.00	2.50	16.0
00-9155-003-251-006	3	7.50	5.00	16.0
00-9155-004-251-006	4	10.00	7.50	24.0
00-9155-005-251-006	5	12.50	10.00	24.0

NOTES:

1. FOR MORE DETAILED INFORMATION, SEE KYOCERA AVX PRODUCT SPECIFICATION #201-01-093.
2. HOUSING MATERIAL: GLASS-FILLED STANYL 4T; FLAME RETARDANT PER UL94V-0; HALOGEN FREE, COLOR: BLACK.
3. CONTACT MATERIAL: BERYLLIUM-COPPER.
4. CONTACT PLATING: NICKEL UNDERPLATE ALL OVER; 0.4 μ m MIN. GOLD IN CONTACT AREA; LEAD-FREE TIN ON TAILS.
5. 2.20 x 5.00 SOLDER PADS MAY BE CONTINUOUS, OR THE SHADED PORTION MAY BE REMOVED—AT CUSTOMER'S DISCRETION.

BATTERY CONNECTORS

Right Angle 3.0mm Pitch 9155-300



A further addition to the battery connector range offered by KYOCERA AVX is a 90 degree version. On a 3mm pitch, offered in 2 to 6 contact positions and rated as with all of the battery range at 3 amps. The connector's design is small and compact to minimize its profile yet stable while having a contact point 4.61mm above the PCB.

The stability comes from the addition of extra SMT anchor brackets that are in between the SMT contact pads and both at the front of the connector and within the row of the contact SMT pads.

As with the other 9155 series of battery connectors offered by KYOCERA AVX the 90 degree version is rated at 3 amps and 5000 mating cycles, RoHS compliant and using high temperature plastic enables the connectors to be processed at up to 260°C.

APPLICATIONS

- Mobile phones
- Digital music players
- Hand held terminals
- Data terminals or any other small portable device

FEATURES AND BENEFITS

- Simple designed spring contact
- End to end stackable for larger pin counts
- Additional contact anchor brackets to added stability on the PCB
- Robust to shock and vibration
- Selectively plated contact area

ELECTRICAL

- Current Rating: 3 Amp / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 HB
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5000 Cycles

HOW TO ORDER

00 9155
Prefix Series

00X
No. of Ways
2 = 002
3 = 003
4 = 004
5 = 005
6 = 006

301
Right Angle
Battery Connector

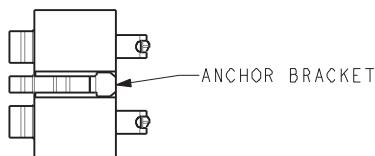
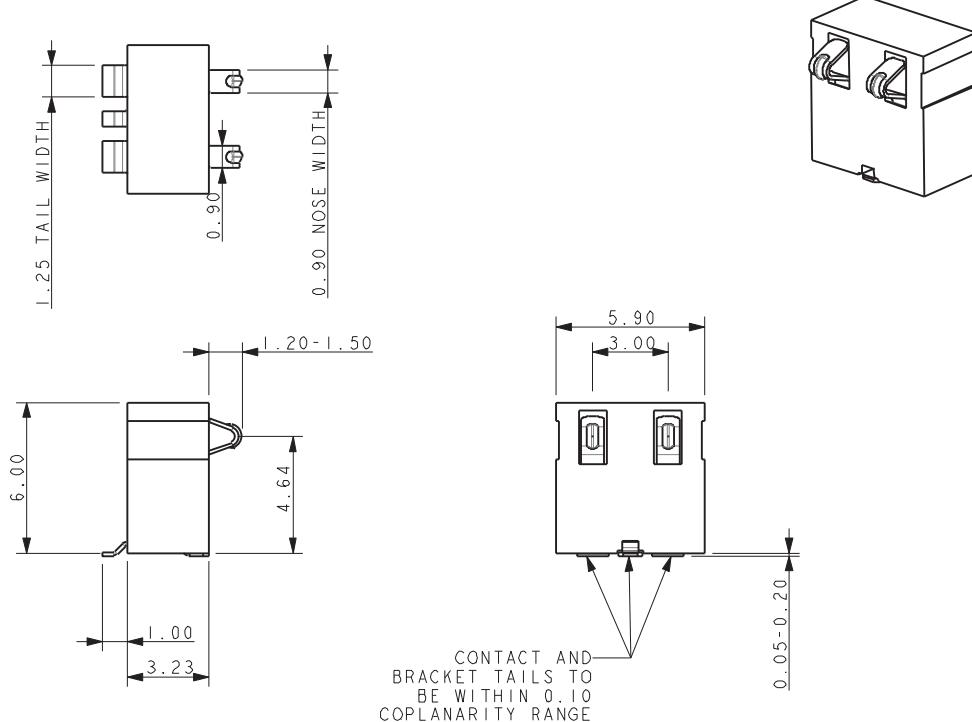
Plating Option	
Code	Description
006	0.4µm Selective Gold, Standard
008	0.8µm Selective Gold, Special Order



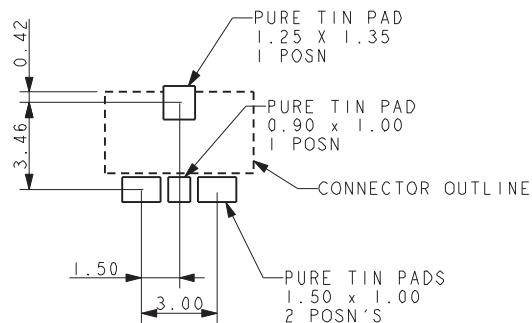
BATTERY CONNECTORS

Right Angle 3.0mm Pitch 9155-300

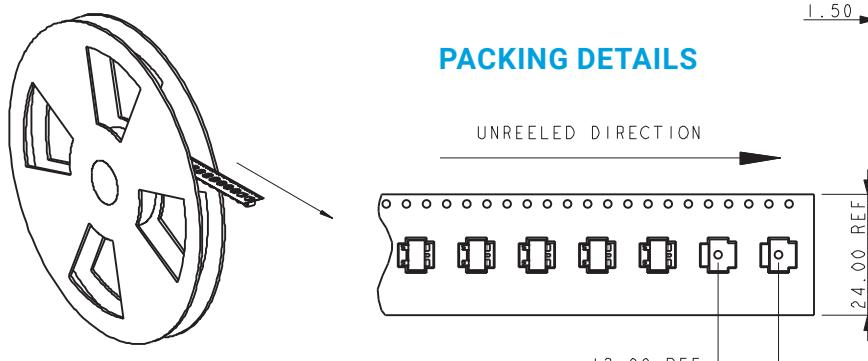
2 WAY RIGHT ANGLE BATTERY CONNECTOR



PCB LAYOUT



PACKING DETAILS



REEL QTY	800
LEADER	480MM
TRAILER	480MM

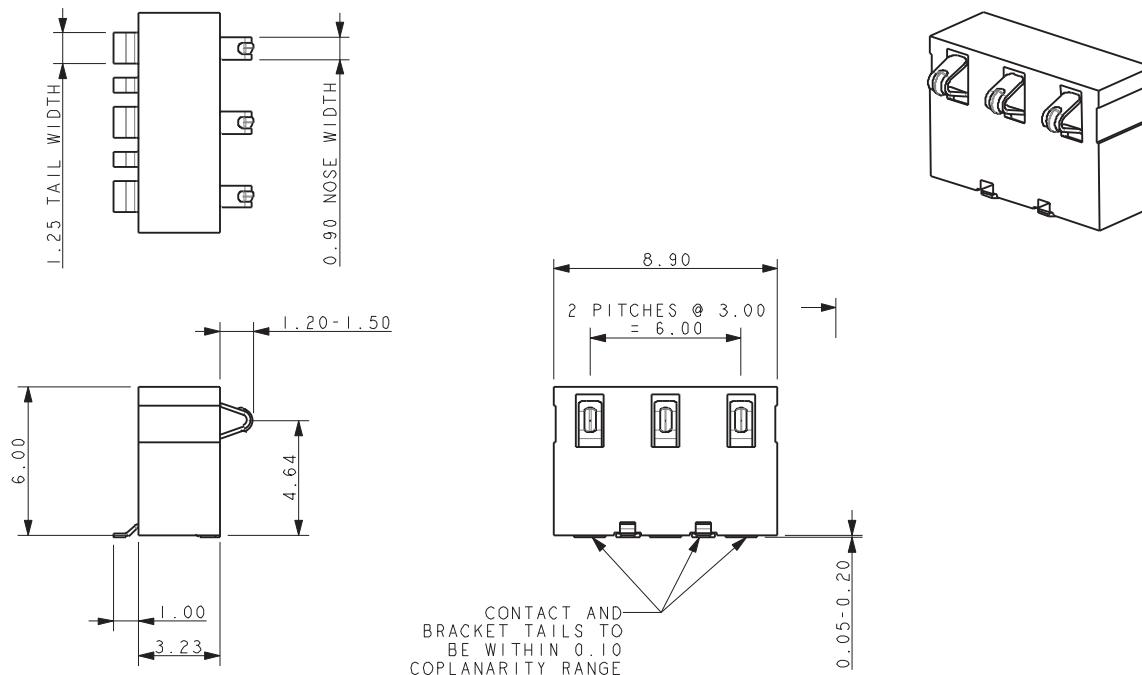
NOTES:

1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
2. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE STATED.
3. FOR MATING PAD DETAILS REFER TO PAGE 29.
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-0. COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

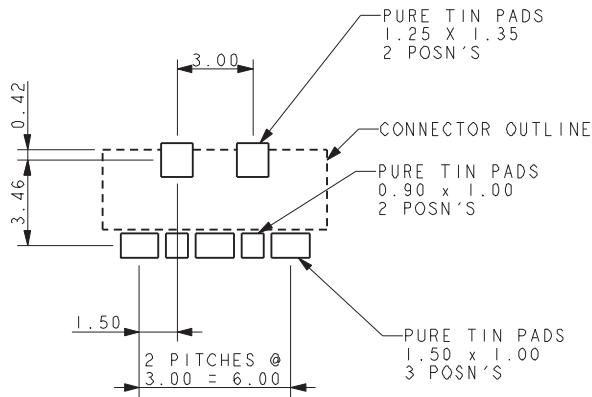
BATTERY CONNECTORS

Right Angle 3.0mm Pitch 9155-300

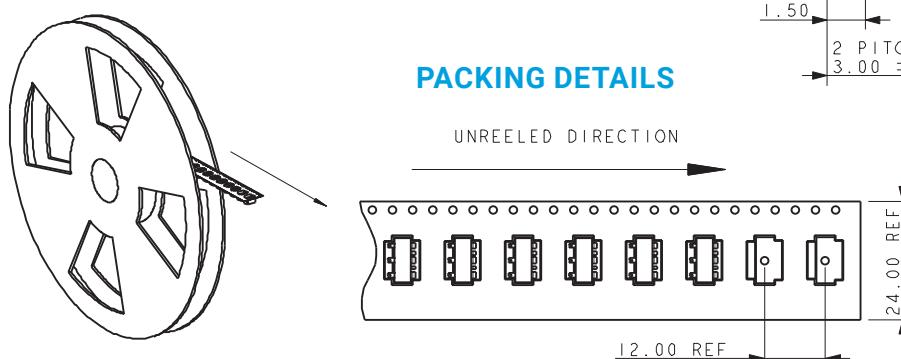
3 WAY RIGHT ANGLE BATTERY CONNECTOR



PCB LAYOUT



PACKING DETAILS



REEL QTY	800
LEADER	480MM
TRAILER	480MM

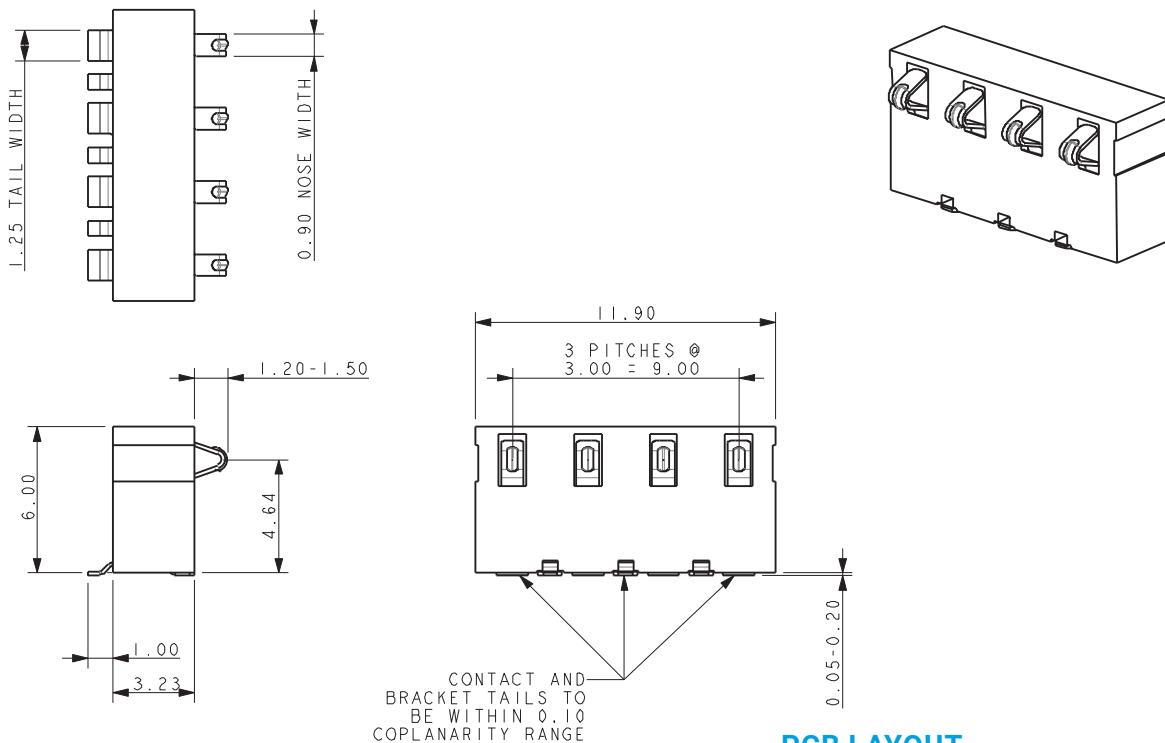
NOTES:

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8. BRACKET PLATING: PURE TIN OVER NICKEL.

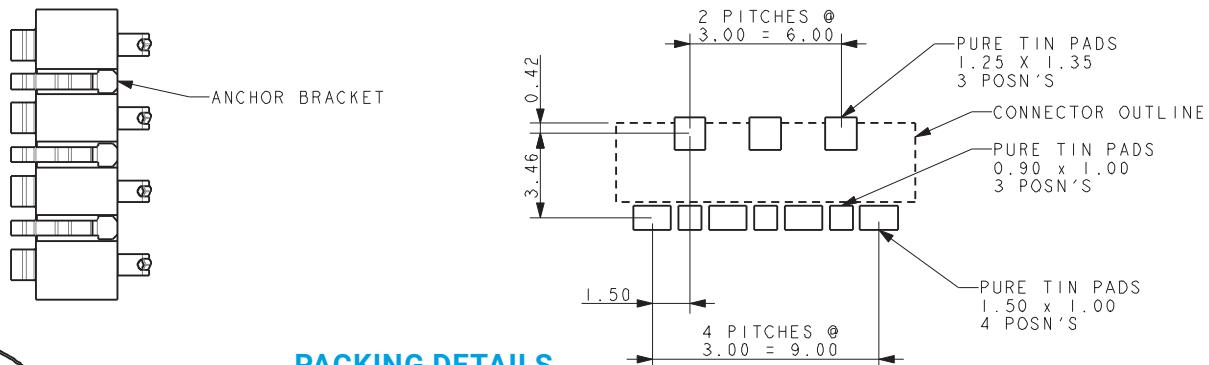
BATTERY CONNECTORS

Right Angle 3.0mm Pitch 9155-300

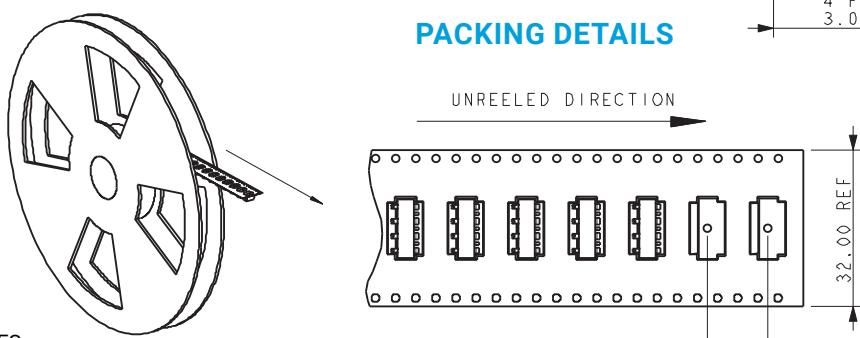
4 WAY RIGHT ANGLE BATTERY CONNECTOR



PCB LAYOUT



PACKING DETAILS



REEL QTY	800
LEADER	480MM
TRAILER	480MM

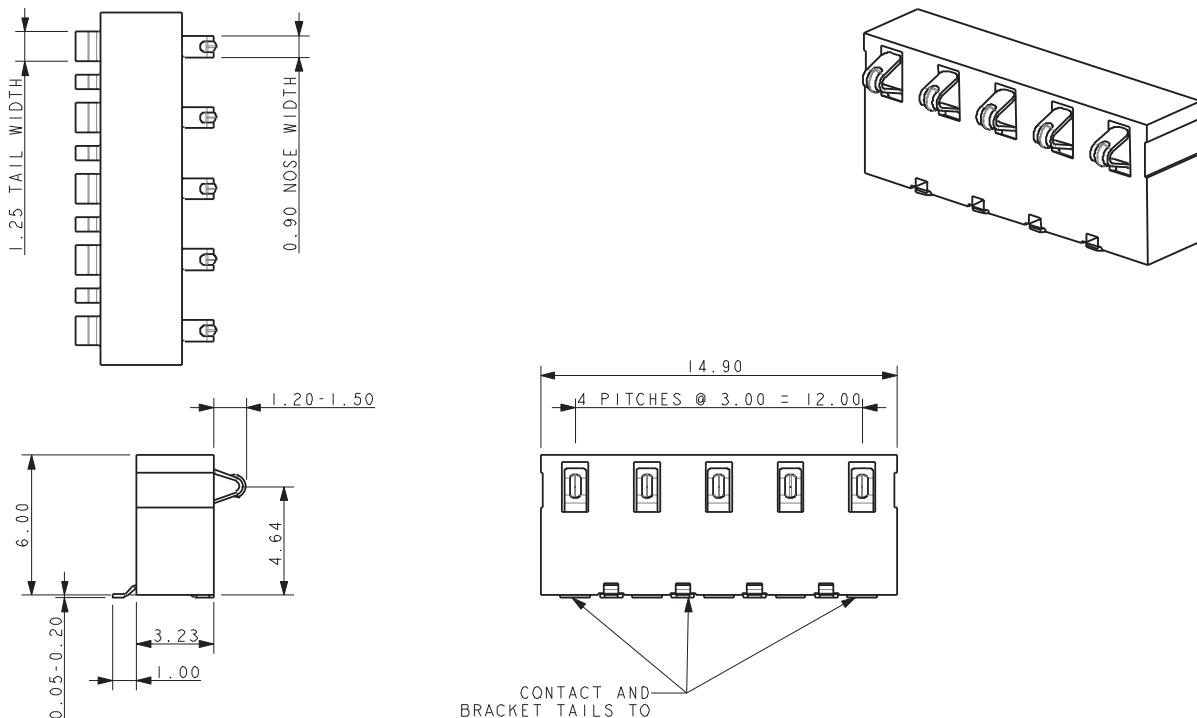
NOTES:

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2. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE STATED.
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6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

BATTERY CONNECTORS

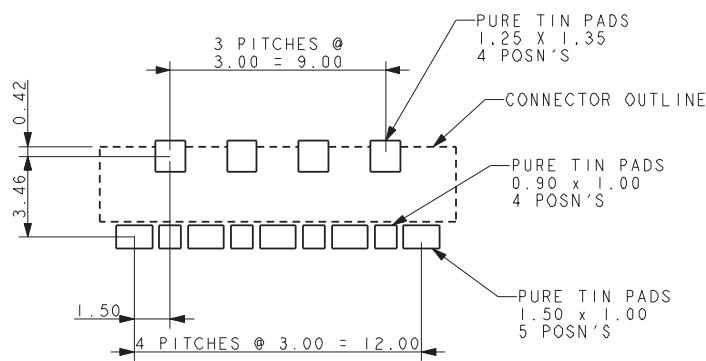
Right Angle 3.0mm Pitch 9155-300

5 WAY RIGHT ANGLE BATTERY CONNECTOR

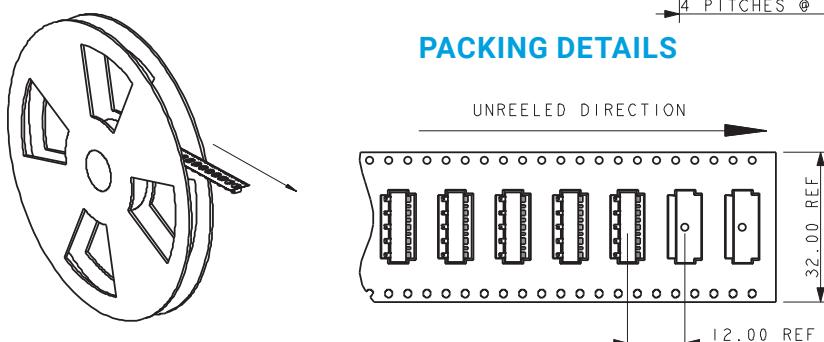


CONTACT AND
BRACKET TAILS TO
BE WITHIN 0.10
COPLANARITY RANGE

PCB LAYOUT



PACKING DETAILS



REEL QTY	800
LEADER	480MM
TRAILER	480MM

NOTES:

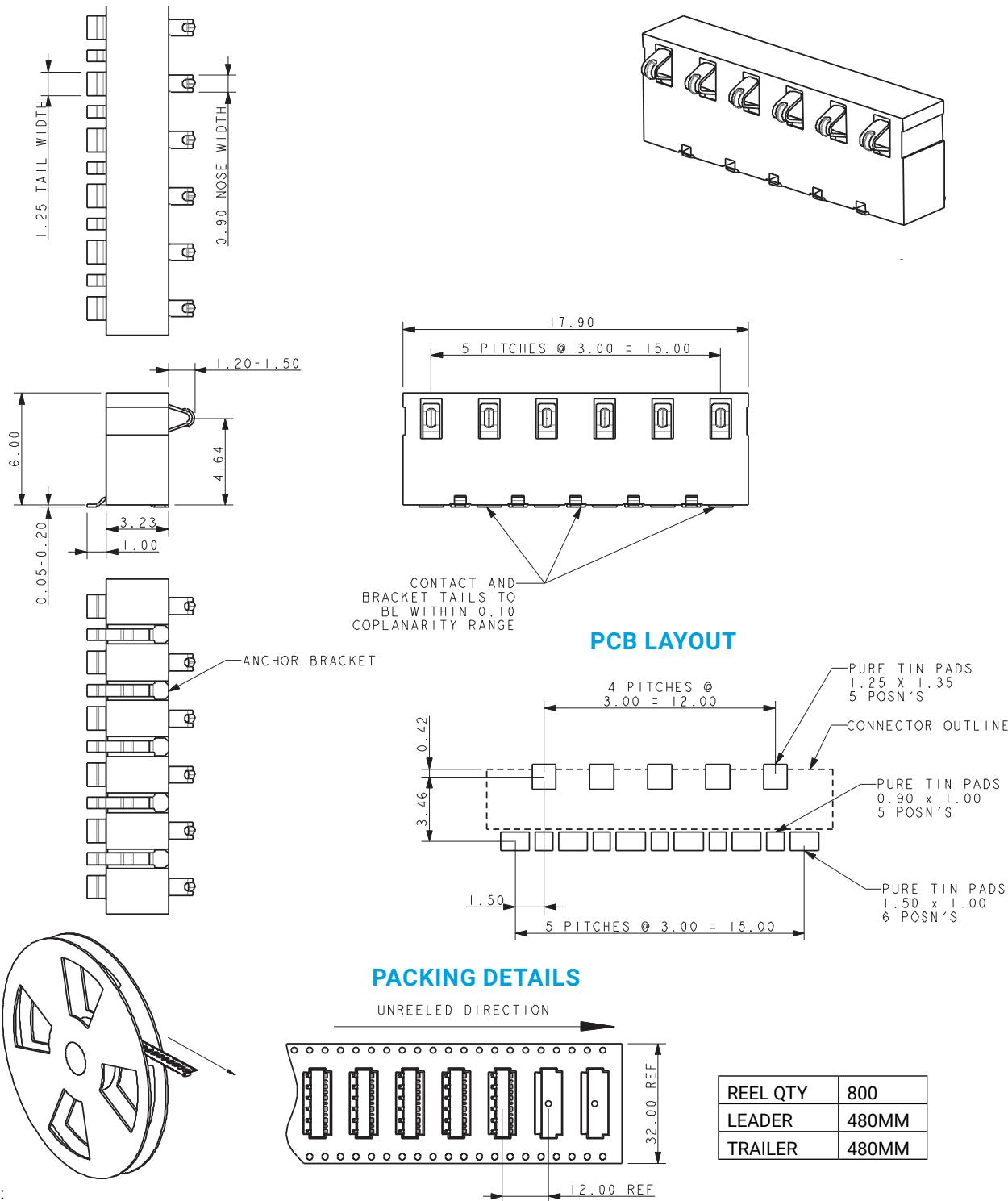
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3. FOR MATING PAD DETAILS REFER TO PAGE 29.
4. INSULATOR MATERIAL: 30% GLASS FILLED NYLON 46, UL94 V-0. COLOR BLACK.
5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

BATTERY CONNECTORS

Right Angle 3.0mm Pitch 9155-300



6 WAY RIGHT ANGLE BATTERY CONNECTOR



NOTES:

1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-050.
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3. FOR MATING PAD DETAILS REFER TO PAGE 29.
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5. CONTACT MATERIAL: BERYLLIUM COPPER.
6. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL. PURE TIN ON TAILS.
7. BRACKET MATERIAL: PHOSPHOR BRONZE.
8. BRACKET PLATING: PURE TIN OVER NICKEL.

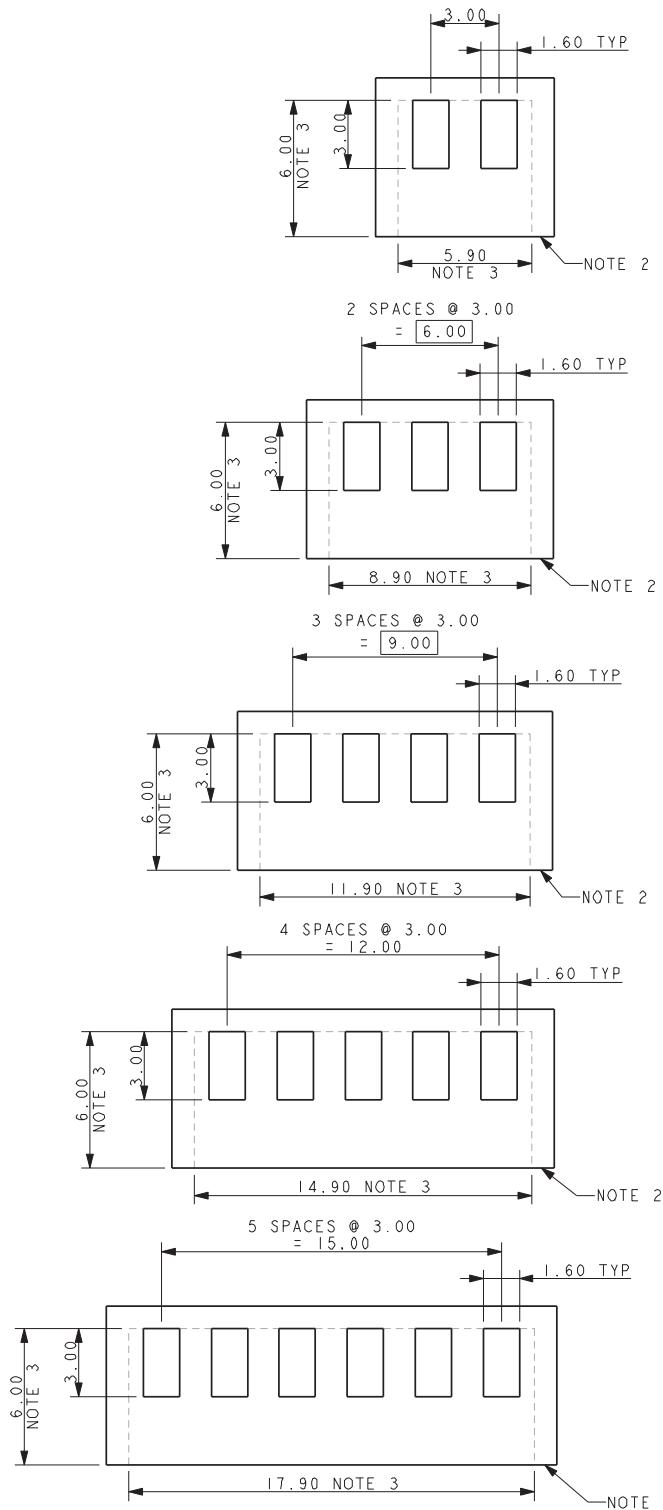


The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

BATTERY CONNECTORS

Right Angle 3.0mm Pitch 9155-300

RIGHT ANGLE BATTERY CONNECTOR – MATING PADS



2 WAY MATING PADS

3 WAY MATING PADS

4 WAY MATING PADS

5 WAY MATING PADS

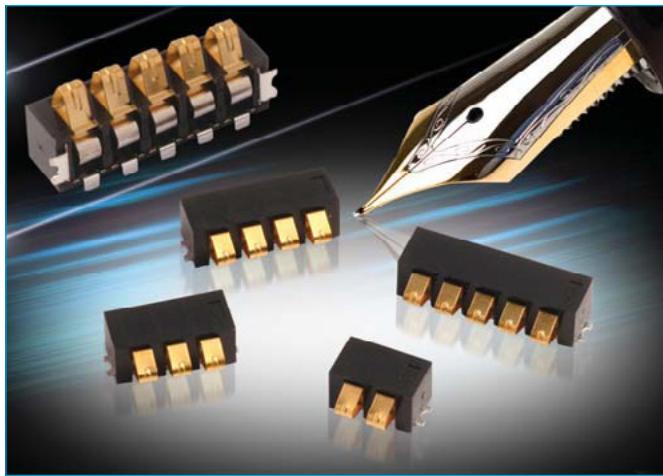
6 WAY MATING PADS

NOTES:

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

BATTERY CONNECTORS

Right Angle 2.5mm Pitch 9155-500 .



KYOCERA AVX extends the battery connector range with the addition of a low profile 2.5mm pitch right angle connector. This connector is offered in 2 to 5 positions and is rated at 3 amps. The connector's design is small and compact to minimize its profile yet functionally stable having a contact point at 2.20mm above the PCB.

The unique design of this stamped contact allows for a maximum insulator height of 4.0mm which makes it size compatible with more expensive pogo pin style battery connectors.

The complete family of battery connectors from KYOCERA AVX offer all of the same advantages; Beryllium Copper base material for enhanced contact performance, a full 3 amp current rating, selective gold plating for 5000 mating cycles and high temperature plastic for RoHS soldering.

APPLICATIONS

- Mobile Phones
- Digital Music Players
- Any Handheld Devices

FEATURES AND BENEFITS

- Reliable stamped contact with coined nose
- Full 1.5mm nose deflection for large operating range
- Two anchor tabs for mechanical stability
- 5000 cycle durability rating
- Minimized X, Y and Z package dimensions

ELECTRICAL

- Current Rating: 3 Amp / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 HB
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5000 Cycles

HOW TO ORDER

00 **9155**
 

00X

 No. of Ways
 2 = 002
 3 = 003
 4 = 004
 5 = 005

541


**Right Angle
Battery Connector**

Code	Description
541	Right Angle 2.5mm Battery Connector

00X


Plating Option

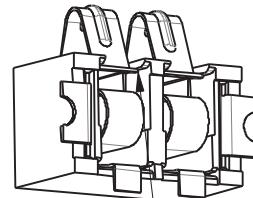
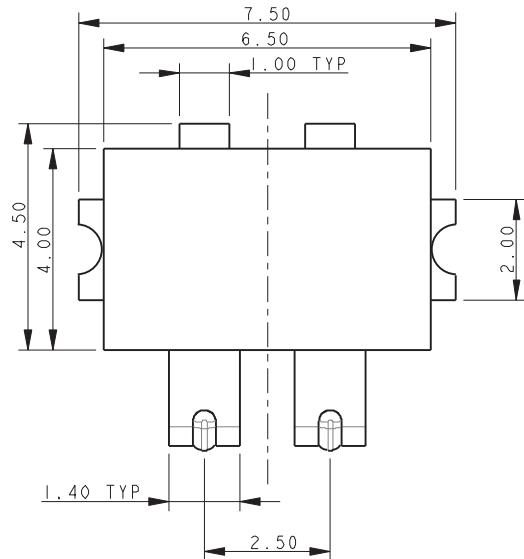
Code	Description
006	0.4µm Selective Gold, Standard
008	0.8µm Selective Gold, Special Order



BATTERY CONNECTORS

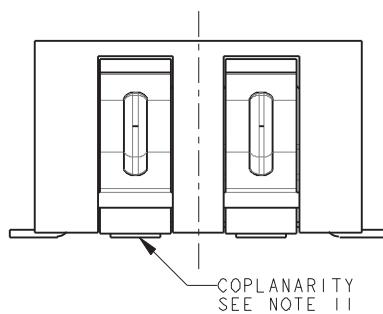
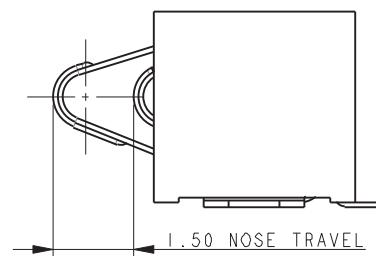
Right Angle 2.5mm Pitch 9155-500 .

2 WAY RIGHT ANGLE BATTERY CONNECTOR

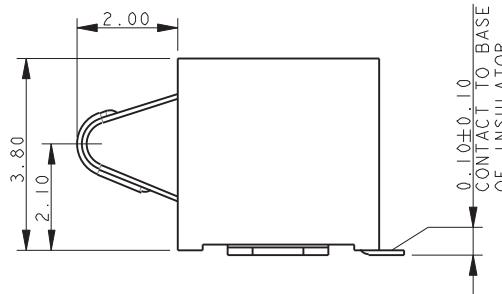


CONTACT NOSE RETAINED
ANTI-SNAG FEATURE

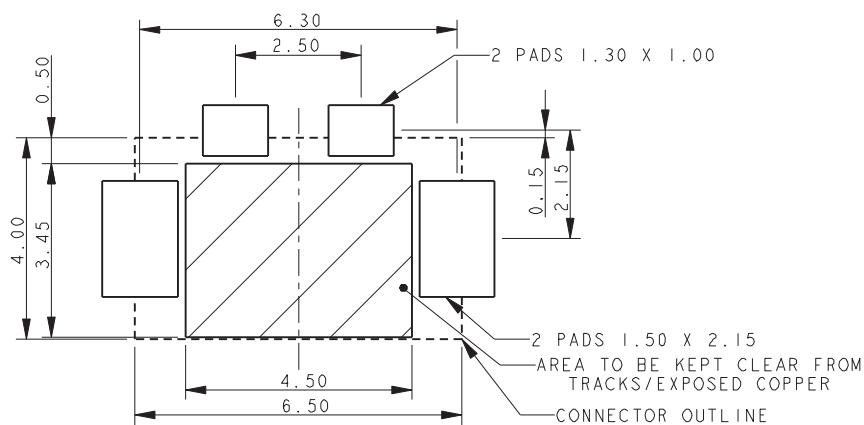
DEFLECTIVE CONNECTOR



UNDEFLECTED CONTACT



SUGGESTED PCB LAYOUT



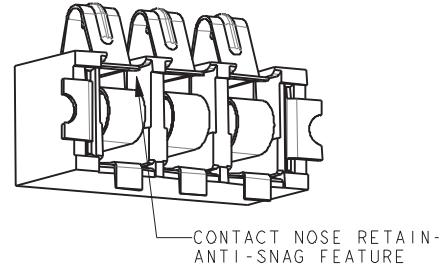
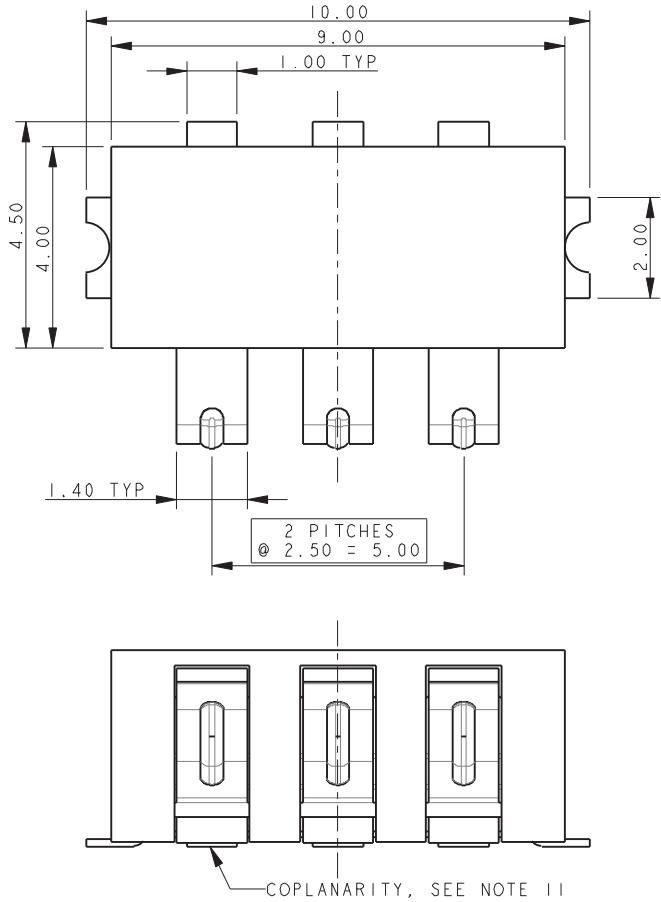
NOTES:

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4. PACKING DETAILS ON PAGE 35.
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6. CONTACT MATERIAL: BERYLLIUM COPPER.
7. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
8. BRACKET MATERIAL: PHOSPHOR BRONZE.
9. BRACKET PLATING: PURE TIN OVER NICKEL.
10. NOMINAL CONTACT FORCE 140 GRAMS AT 1.50 DEFLECTION.
11. CONPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

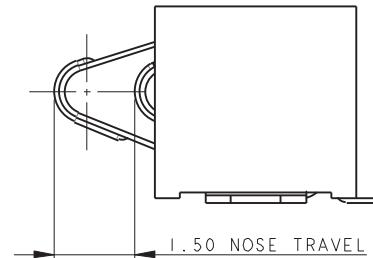
BATTERY CONNECTORS

Right Angle 2.5mm Pitch 9155-500 .

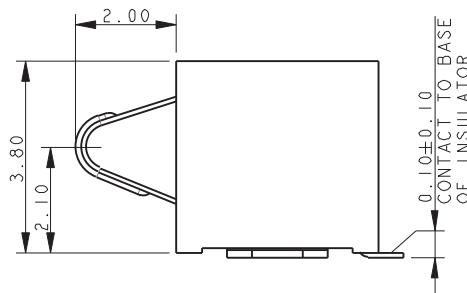
3 WAY RIGHT ANGLE BATTERY CONNECTOR



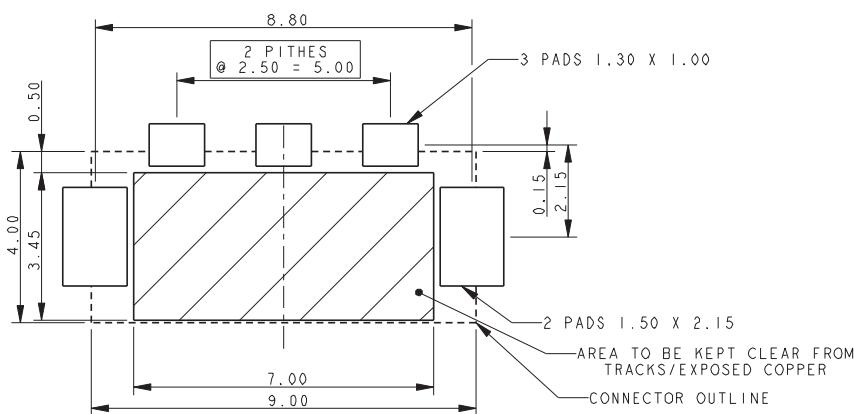
DEFLECTIVE CONNECTOR



UNDEFLECTED CONTACT



SUGGESTED PCB LAYOUT



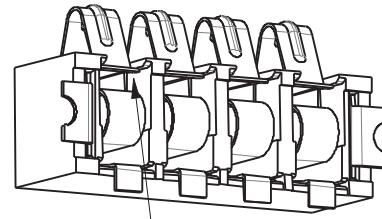
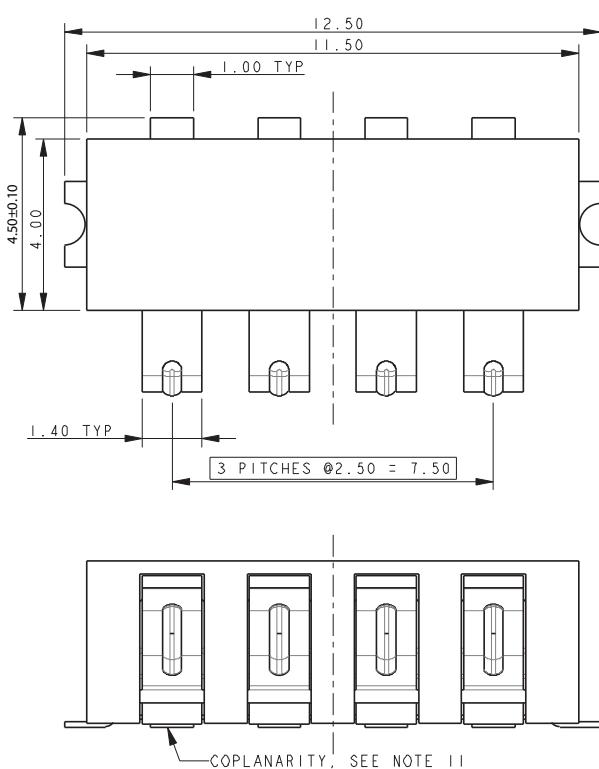
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10. NOMINAL CONTACT FORCE 140 GRAMS AT 1.50 DEFLECTION.
11. CONPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

BATTERY CONNECTORS

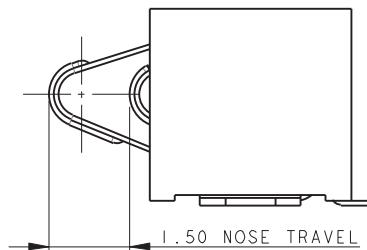
Right Angle 2.5mm Pitch 9155-500 .

4 WAY RIGHT ANGLE BATTERY CONNECTOR

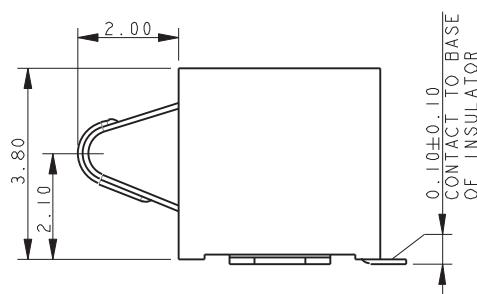


CONTACT NOSE RETAINED ANTI-SNAG FEATURE

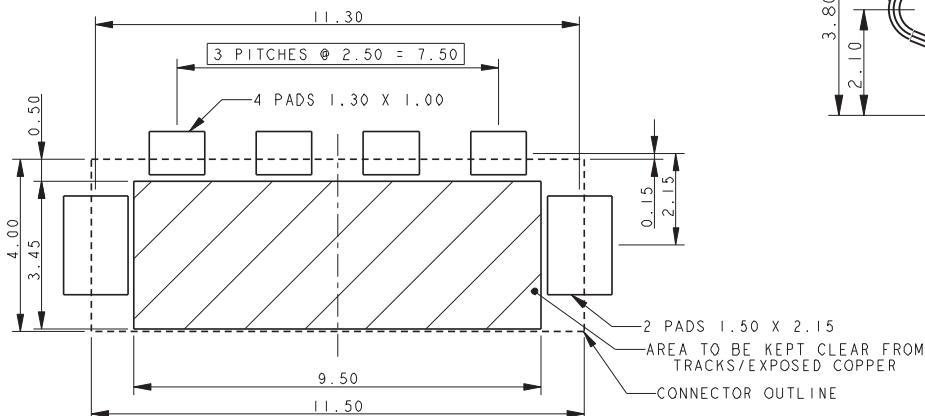
DEFLECTIVE CONNECTOR



UNDEFLECTED CONTACT



SUGGESTED PCB LAYOUT



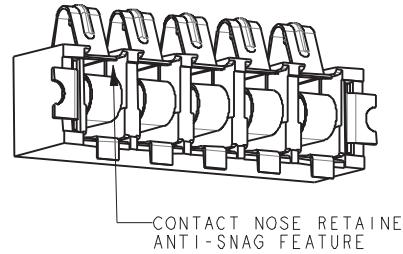
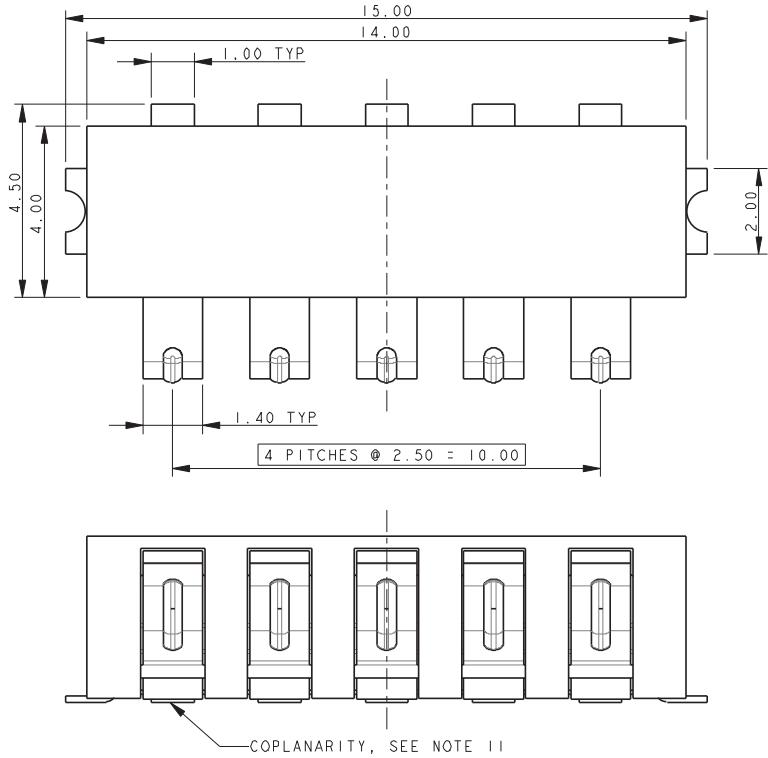
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11. CONPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

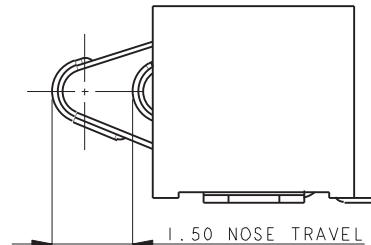
BATTERY CONNECTORS

Right Angle 2.5mm Pitch 9155-500 .

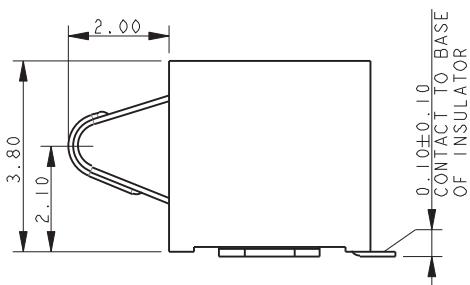
5 WAY RIGHT ANGLE BATTERY CONNECTOR



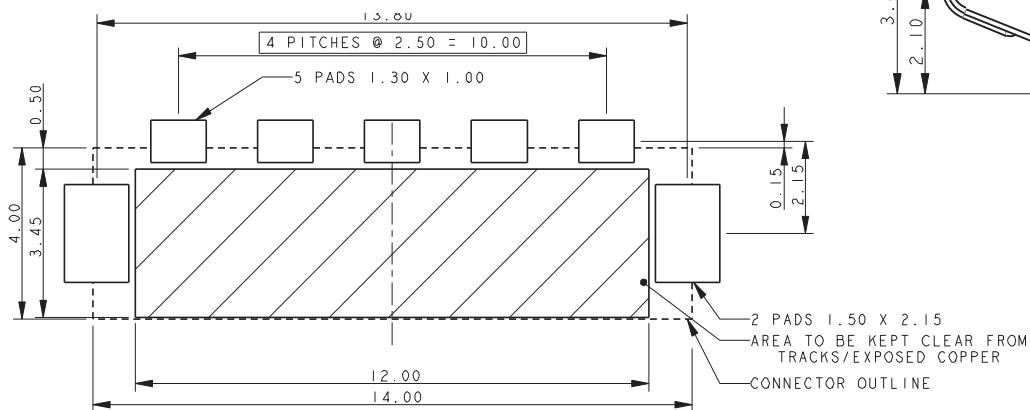
DEFLECTIVE CONNECTOR



UNDEFLECTED CONTACT



SUGGESTED PCB LAYOUT



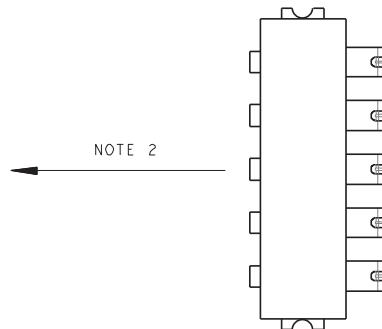
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8. BRACKET MATERIAL: PHOSPHOR BRONZE.
9. BRACKET PLATING: PURE TIN OVER NICKEL.
10. NOMINAL CONTACT FORCE 140 GRAMS AT 1.50 DEFLECTION.
11. CONPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

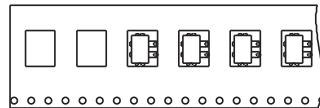
BATTERY CONNECTORS

Right Angle 2.5mm Pitch 9155-500 .

PACKING DETAILS

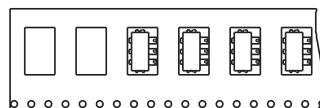


2 WAY

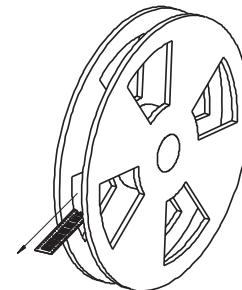


REEL QTY	1000
TAPE WIDTH	24MM
POCKET PITCH	12MM

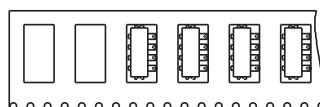
3 WAY



REEL QTY	1000
TAPE WIDTH	24MM
POCKET PITCH	12MM



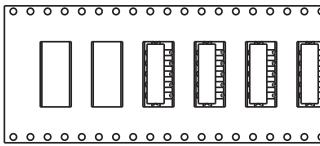
4 WAY



REEL QTY	1000
TAPE WIDTH	24MM
POCKET PITCH	12MM



5 WAY



REEL QTY	1000
TAPE WIDTH	32MM
POCKET PITCH	12MM

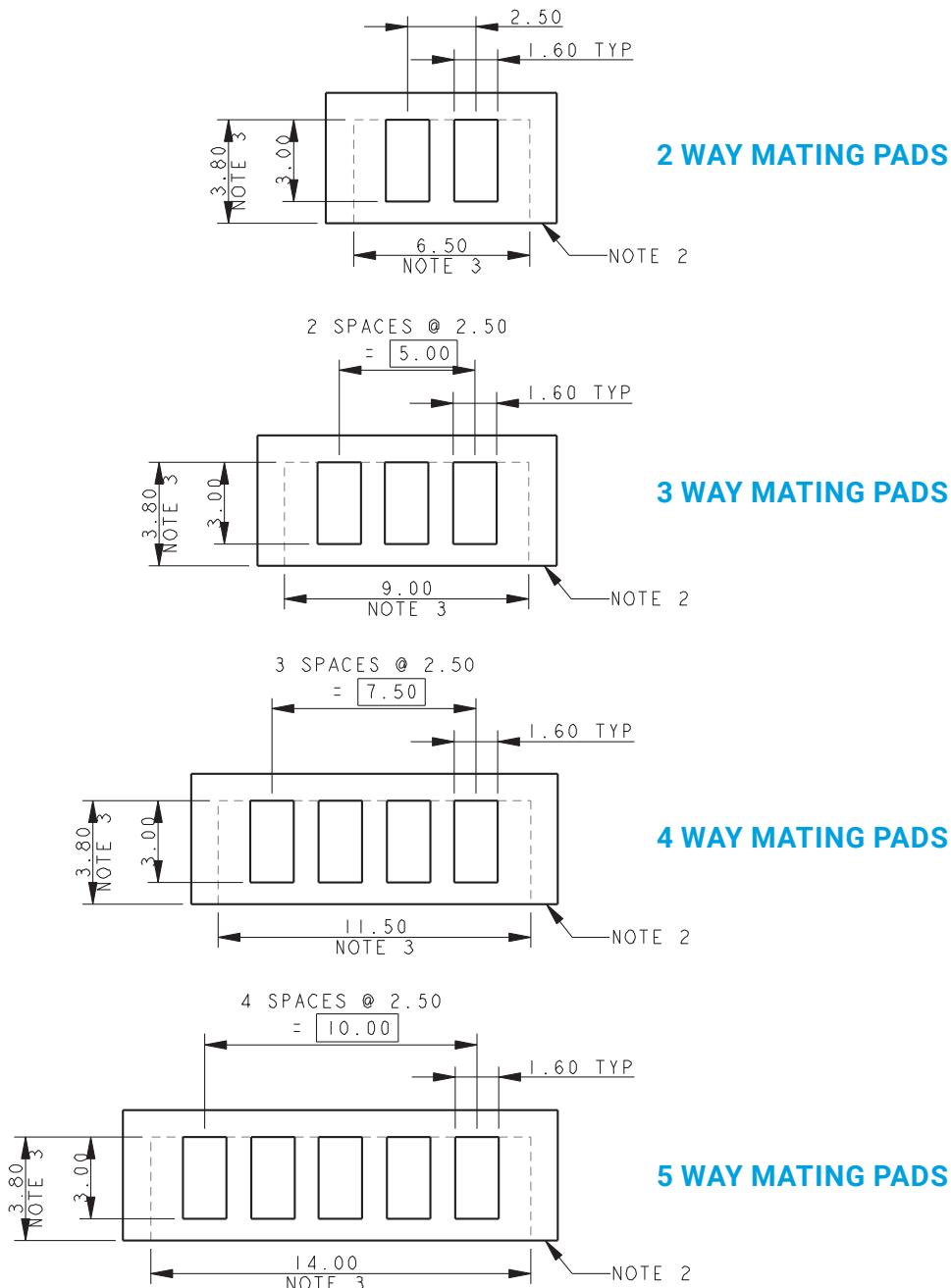
NOTES:

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

BATTERY CONNECTORS

Right Angle 2.5mm Pitch 9155-500 .

STANDARD RIGHT ANGLE – MATING PADS



NOTES:

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

BATTERY CONNECTORS

Vertical Mate 2.0mm Pitch 9155-800



Traditional battery connectors have been used for years in a number of applications: battery packs, removable or pluggable modules and conventional board-to-board to connect both signal level and power circuits. These ultra reliable and robust gold plated beryllium copper contacts provide high integrity connections in harsh environments.

The vertical mate 9155-800 series eliminates end user damage when pluggable modules or packs are pressed down vertically into a base unit. Traditional right angle connectors have contact geometries that rely on the pack being inserted at an angle and then rotated down into position. The unique contact design of this connector deflects cleanly and easily when a module or mating connector is pushed vertically into position, eliminating any end user damage.

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
- Application notes; refer to 201-01-205

FEATURES AND BENEFITS

- Gold plated BeCu contacts provide high electrical and mechanical performance over 5000 mating cycles
- Unique contact geometry allows for full vertical engagement in pluggable module applications
- Plastic locating bosses and SMT anchor tabs maximizes the mechanical stability of the connector in harsh conditions
- Contact nose incorporates an anti-snag feature to protect during deflection

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

00 9155
Prefix Series

00X

No. of Ways

Code	No of Ways	Packing QTY
002	2	1000
003	3	1000
004	4	1000
005	5	1000
006	6	1000

8XX

00

Standard Battery Connector

852 = Battery Connector Right Angle
Connector Height: 5.00mm
Boss: Yes

X

Plating Option

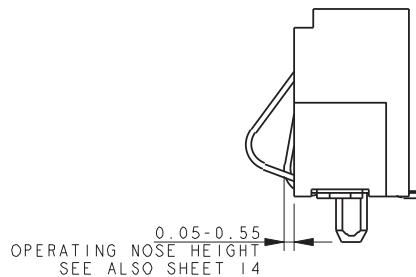
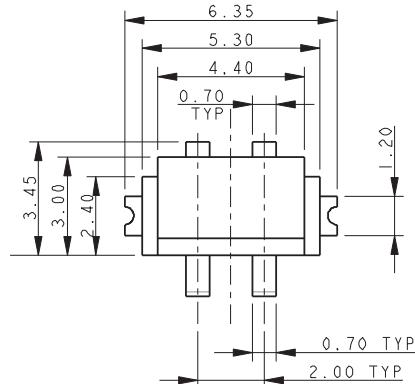
6 = 0.4µm Selective Gold, Pure Tin Tail
8 = 0.8µm Selective Gold, Pure Tin Tail



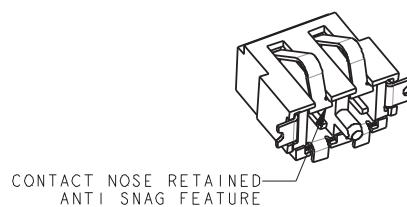
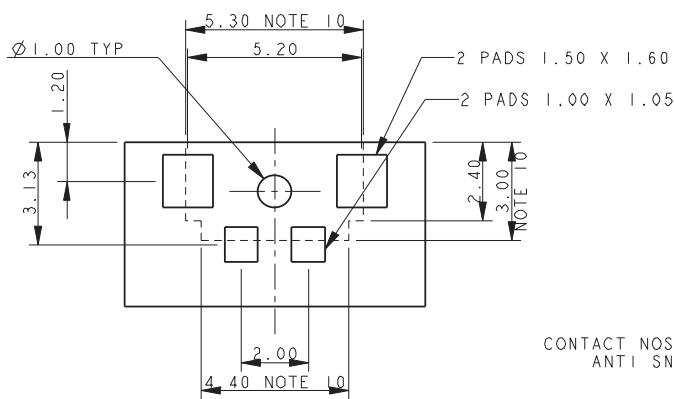
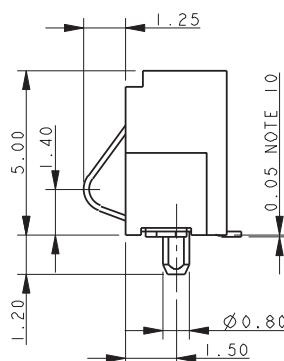
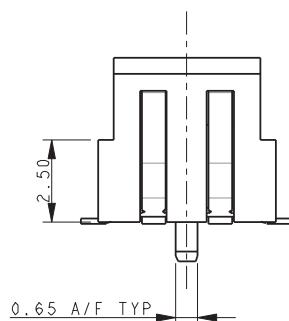
BATTERY CONNECTORS

Vertical Mate 2.0mm Pitch 9155-800

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



DEFLECTED CONTACT



SUGGESTED PCB LAYOUT

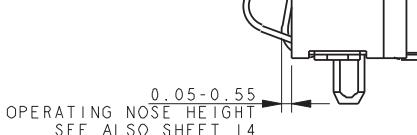
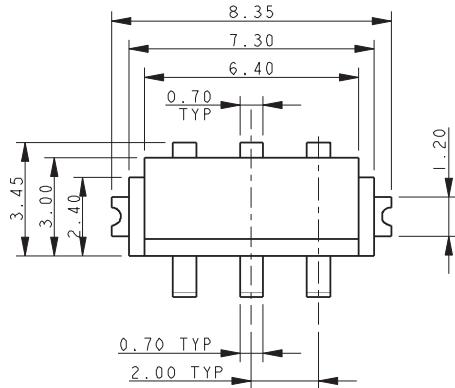
NOTES:

1. GENERAL TOLERANCE ± 0.20 UNLESS STATED.
2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
3. FOR MATING PAD DETAILS REFER TO PAGE 44.
4. FOR PACKING DETAILS REFER TO PAGE 43
5. INSULATION 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.
8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
9. CONNECTOR OUTLINE.
10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

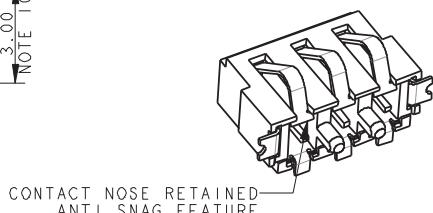
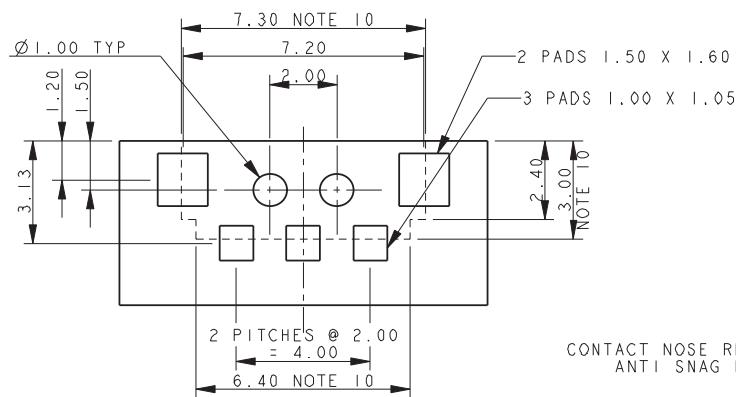
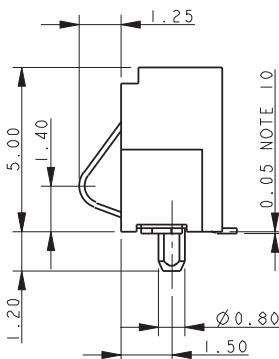
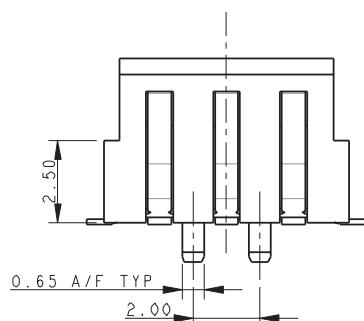
BATTERY CONNECTORS

Vertical Mate 2.0mm Pitch 9155-800

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



DEFLECTED CONTACT



SUGGESTED PCB LAYOUT

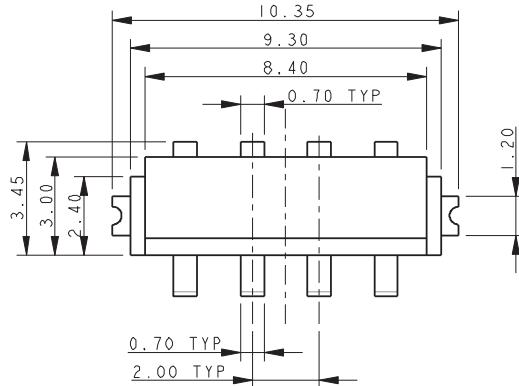
NOTES:

1. GENERAL TOLERANCE ± 0.20 UNLESS STATED.
2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
3. FOR MATING PAD DETAILS REFER TO PAGE 44.
4. FOR PACKING DETAILS REFER TO PAGE 43
5. INSULATION 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.
8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
9. CONNECTOR OUTLINE.
10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

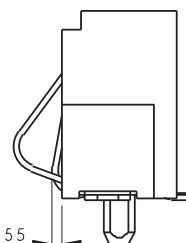
BATTERY CONNECTORS

Vertical Mate 2.0mm Pitch 9155-800

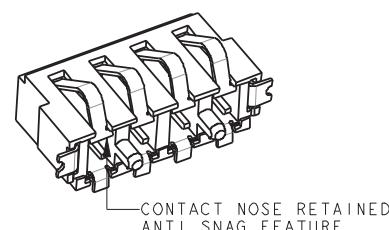
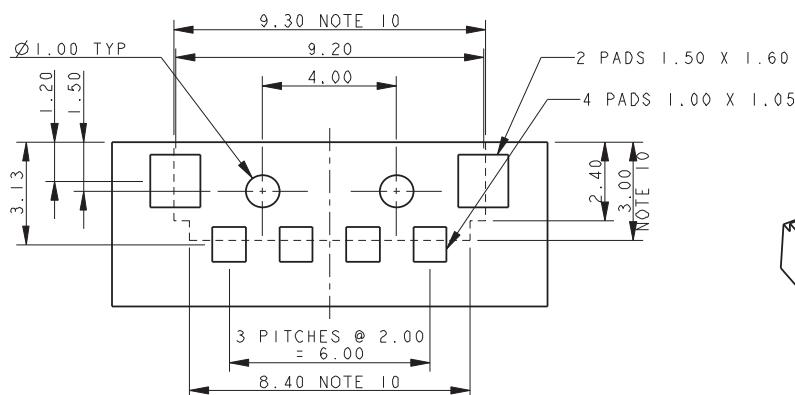
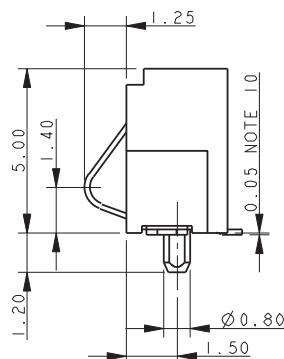
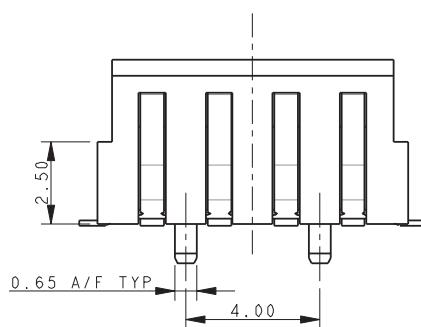
4 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS



OPERATING NOSE HEIGHT
SEE ALSO SHEET 14



DEFLECTED CONTACT



SUGGESTED PCB LAYOUT

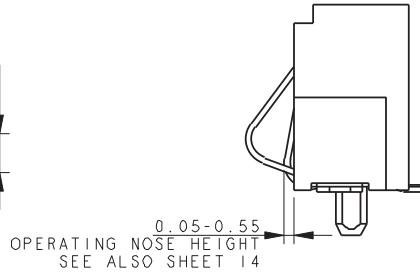
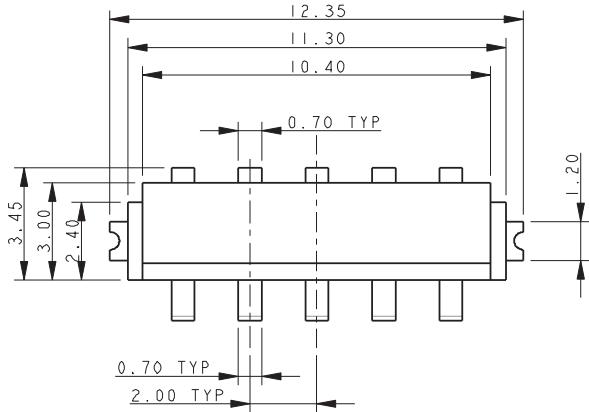
NOTES:

1. GENERAL TOLERANCE ± 0.20 UNLESS STATED.
2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
3. FOR MATING PAD DETAILS REFER TO PAGE 44.
4. FOR PACKING DETAILS REFER TO PAGE 43
5. INSULATION MATERIAL: GLASS FILLED NYLON 46, UL94 V-0, COLOR BLACK.
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7. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
9. CONNECTOR OUTLINE.
10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

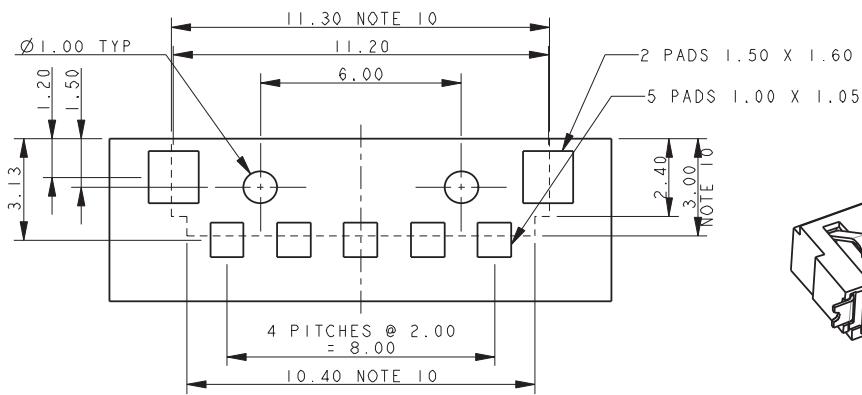
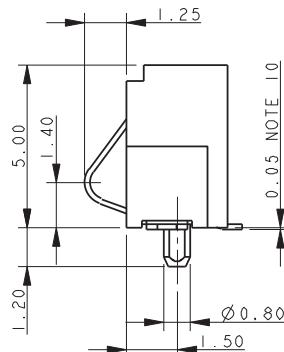
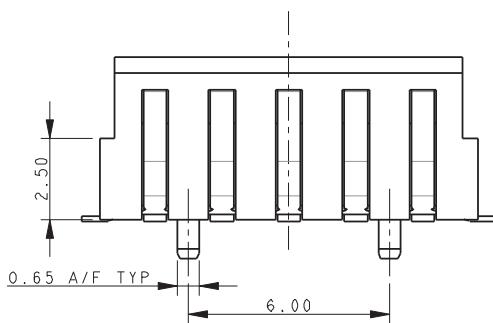
BATTERY CONNECTORS

Vertical Mate 2.0mm Pitch 9155-800

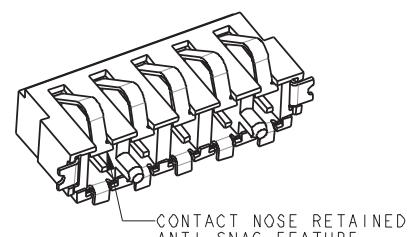
5 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS



DEFLECTED CONTACT



SUGGESTED PCB LAYOUT



CONTACT NOSE RETAINED
ANTI SNAG FEATURE

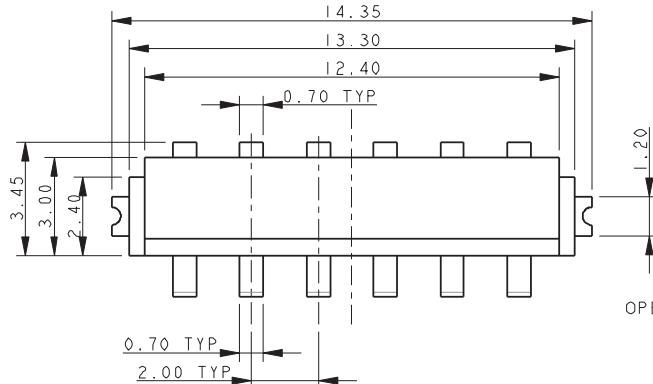
NOTES:

1. GENERAL TOLERANCE ± 0.20 UNLESS STATED.
2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
3. FOR MATING PAD DETAILS REFER TO PAGE 44.
4. FOR PACKING DETAILS REFER TO PAGE 43
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7. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
9. CONNECTOR OUTLINE.
10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

BATTERY CONNECTORS

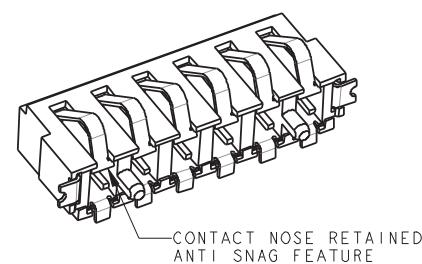
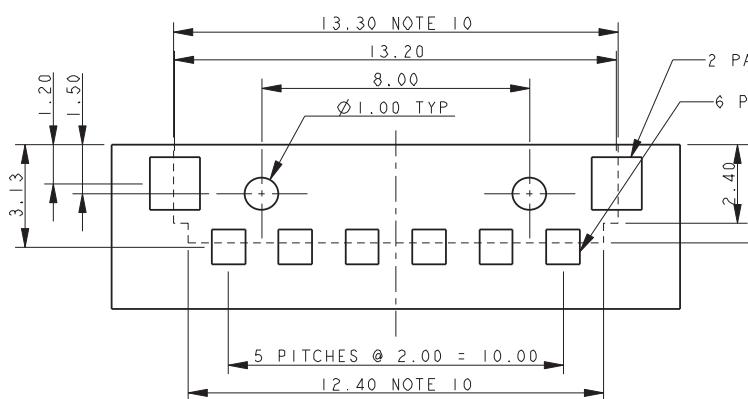
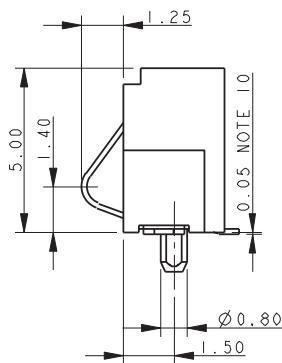
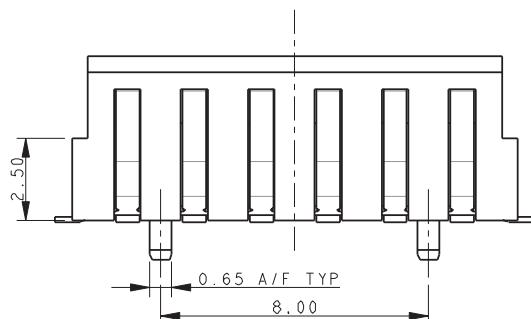
Vertical Mate 2.0mm Pitch 9155-800

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



OPERATING NOSE HEIGHT
SEE ALSO SHEET 14

DEFLECTED CONTACT



SUGGESTED PCB LAYOUT

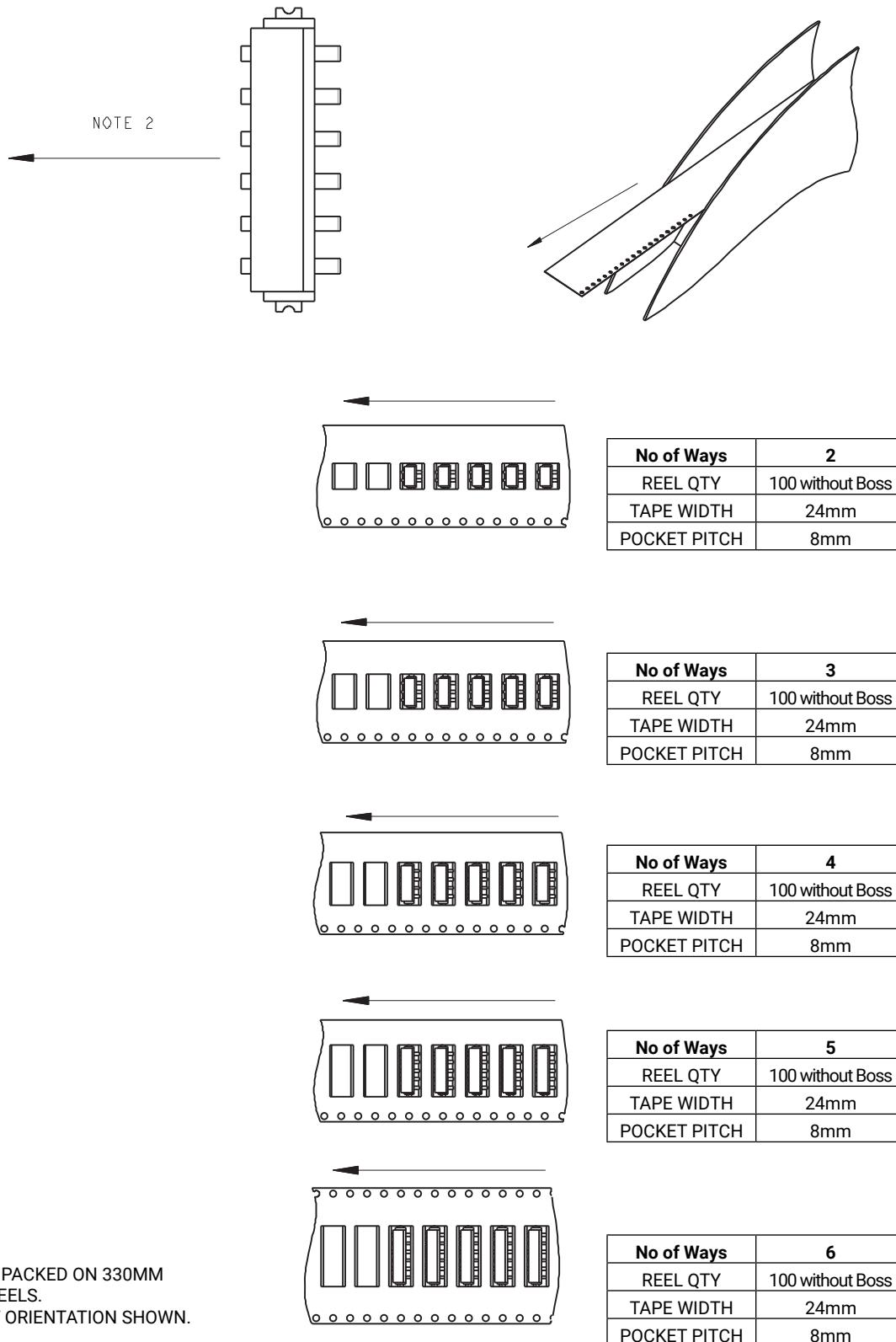
NOTES:

1. GENERAL TOLERANCE ± 0.20 UNLESS STATED.
2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
3. FOR MATING PAD DETAILS REFER TO PAGE 44.
4. FOR PACKING DETAILS REFER TO PAGE 43
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6. CONTACT MATERIAL: BERYLLIUM COPPER.
7. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
9. CONNECTOR OUTLINE.
10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

BATTERY CONNECTORS

Vertical Mate 2.0mm Pitch 9155-800

PACKING DETAILS



NOTES:

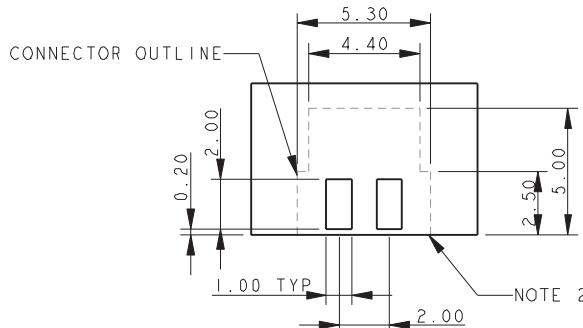
1. PARTS TO BE PACKED ON 330MM DIAMETER REELS.
2. COMPONENT ORIENTATION SHOWN.

BATTERY CONNECTORS

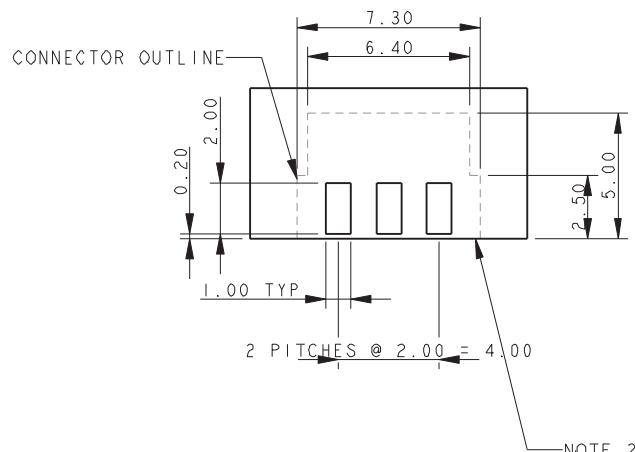
Vertical Mate 2.0mm Pitch 9155-800

2MM PITCH RIGHT ANGLE – MATING PADS

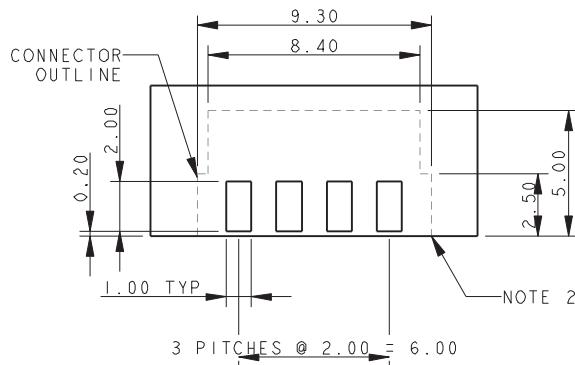
2 WAY – MATING PADS



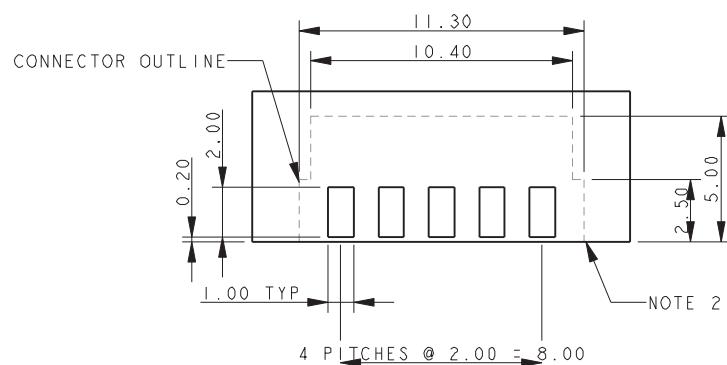
3 WAY – MATING PADS



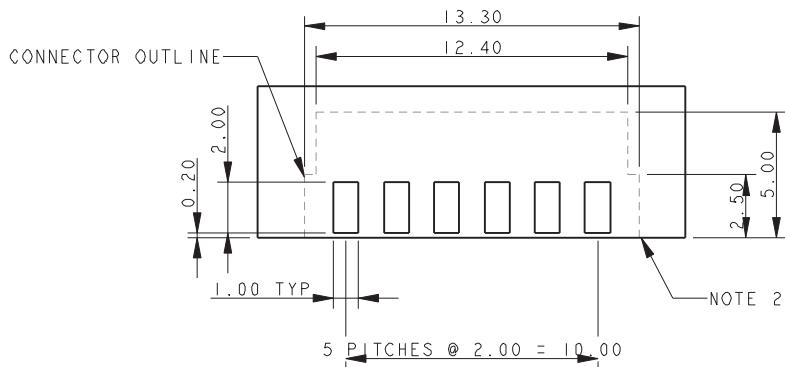
4 WAY – MATING PADS



5 WAY – MATING PADS



6 WAY – MATING PADS



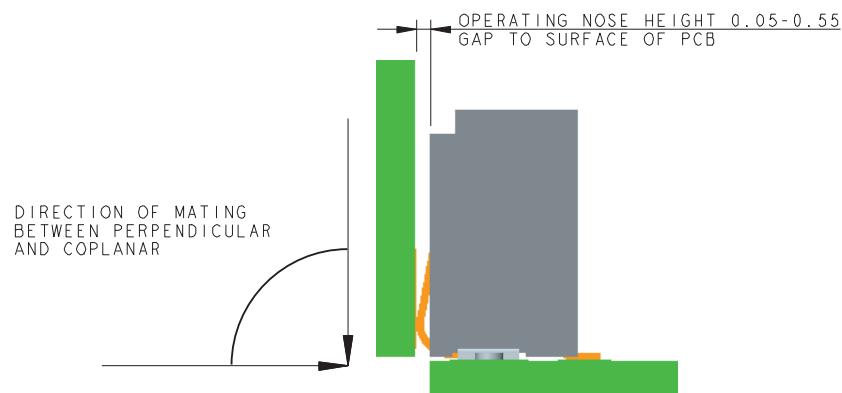
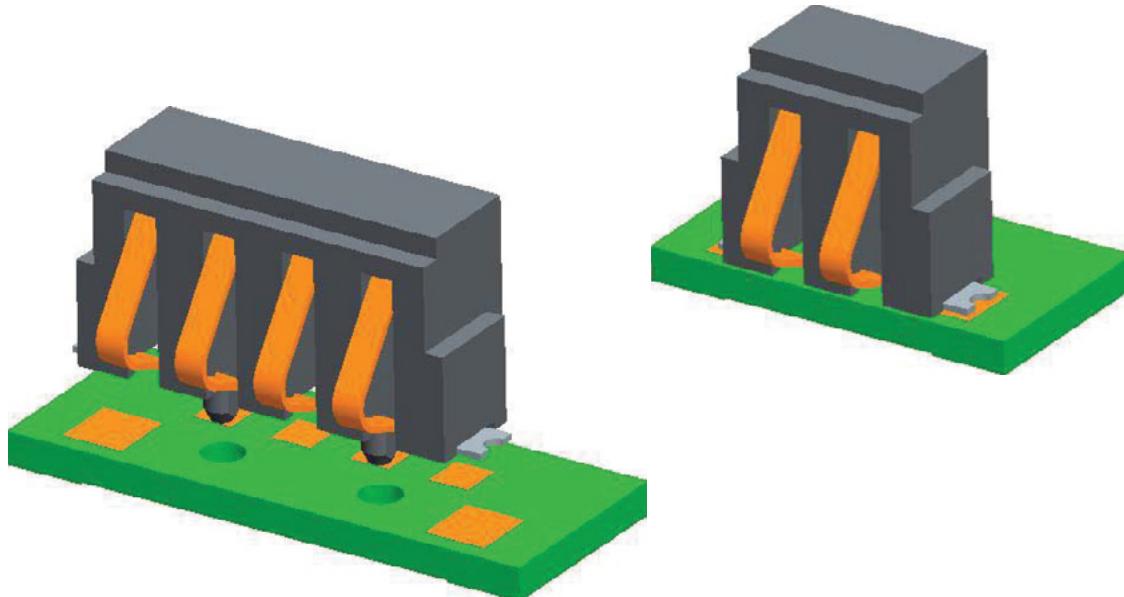
NOTES:

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

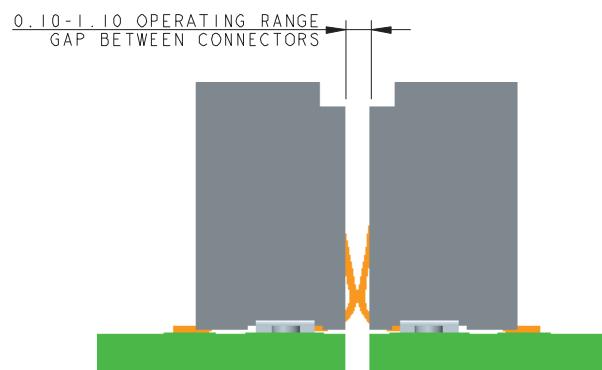
BATTERY CONNECTORS

Vertical Mate 2.0mm Pitch 9155-800

2MM PITCH RIGHT ANGLE CONNECTOR



BOARD TO BOARD/COMPONENT
(REFER TO APPLICATION NOTES 201-01-205)



CONNECTOR TO CONNECTOR
(REFER TO APPLICATION NOTES 201-01-205)

BATTERY CONTACTS

Single Compression Contact



Designers for ruggedized connectors to meet harsh environments continue to look for new products which will reduce size and cost without jeopardizing performance. The new Ultra-Low Profile (ULP) compression contact from KYOCERA AVX surface mounts to a PCB and provides a reliable compression connection to the mating board, even under extreme shock and vibration applications. With over 20 years of 1-Piece compression contact experience, this innovative contact offers full connector performance functionality at the individual contact level. Thus, allowing single contacts to be placed in any location or position on a PCB.

The high force beryllium copper contact is gold plated to maximize reliability and signal integrity. The current offering has two contacts with nominal heights of 1.0mm and 1.5mm. Add in the "Z" axis tolerance range and the compressed height covers 0.75mm up to 1.75mm. The contacts are supplied in tape and reel for easy SMT placement.

APPLICATIONS

- Industrial/Ruggedized handheld or portable devices
- BTB connection for any traditional power or signal application
- Ground connections between PCB's or housings

FEATURES AND BENEFITS

- Reliable gold plated Beryllium Copper contacts for high cycle life and signal integrity up to 1000 cycles
- Tape and reel packaged for automated SMT placement
- Sweeping beam design for pluggable/module applications
- Three gold plating options to match end product environmental or expected life requirements

ELECTRICAL

- Current Rating: 3 Amps
- Voltage Rating: Based on placement distance

ENVIRONMENTAL

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

MECHANICAL

- Contact Material: Beryllium Copper
- Contact Plating: Gold over Nickel
- Durability: 50, 500 and 1000 cycles

HOW TO ORDER

70 9155 001

Prefix Series Number of Ways

61X

Contact Description		
Code	Nominal Operating Height	Contact Operating Height Range
610	1.00mm	0.75mm to 1.25mm
615	1.50mm	1.25mm to 1.75mm

61X

Contact Description			
Code	Gold Thickness	Description	Availability
004	0.1µm	Nickel under Plate, Gold on Nose Tin on Remainder	Standard
006	0.4µm	Nickel under Plate, Gold on Nose Tin on Remainder	Special Order
008	0.8µm	Nickel under Plate, Gold on Nose Tin on Remainder	Special Order

Certification: UL File #E90723

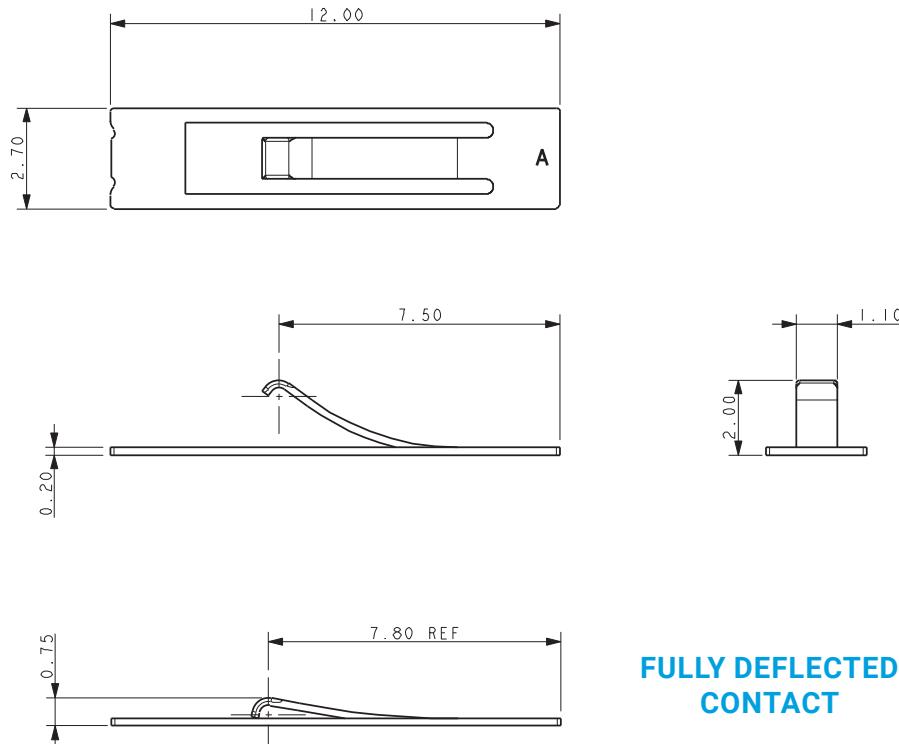


BATTERY CONTACTS

Single Compression Contact

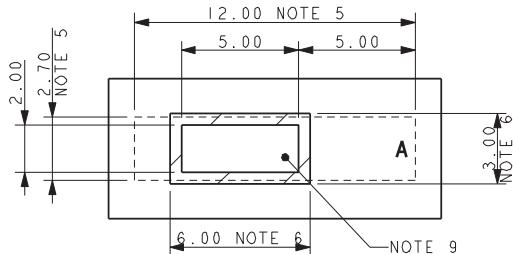


70-9155-001-610-006
NOMINAL WORKING HEIGHT 1.00MM



FULLY DEFLECTED CONTACT

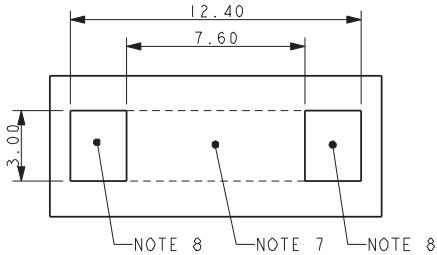
SUGGESTED MATING PCB LAYOUT



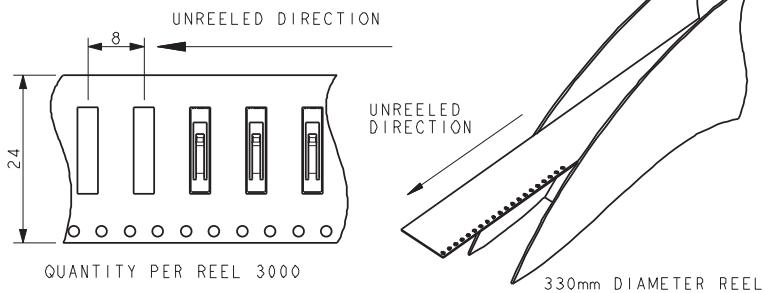
NOTES:

1. 9155 LOW PROFILE CONTACT, WORKING HEIGHT 0.75MM TO 1.25MM.
2. FOR FULL DETAILS REFER TO PRODUCT SPECIFICATION 201-01-153 AND APPLICATIONS NOTES 201-01-154.
3. MATERIAL: COPPER ALLOY 0.2MM THICK.
4. PLATING: NICKEL ALL OVER WITH GOLD ON CONTACT NOSE AND TIN ON THE REMAINDER. PARTS TO BE PACKED IN TAPE AND REEL. QTY PER REEL 3000.
5. OUTLINE OF CONNECTOR, ORIENTATION END "A".
6. AREA TO KEPT FREE OF SOLDER RESIST, FURTHER INFORMATION IN APPLICATION NOTES.
7. AREA BETWEEN PADS TO BE KEPT CLEAR OF TRACKS AND COMPONENTS.
8. SMT PADS PLATED TIN.
9. MATING PAD PLATED GOLD OVER NICKEL.

SUGGESTED SMT PCB LAYOUT



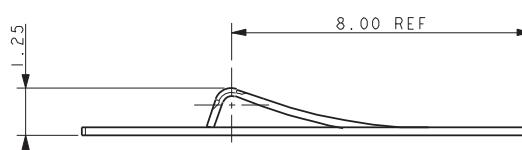
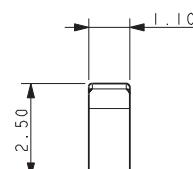
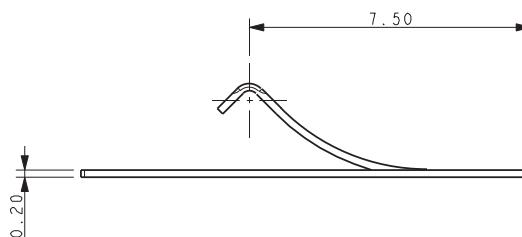
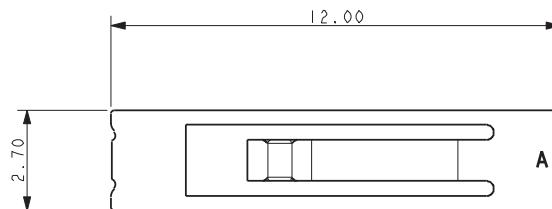
PACKING DETAILS



BATTERY CONTACTS

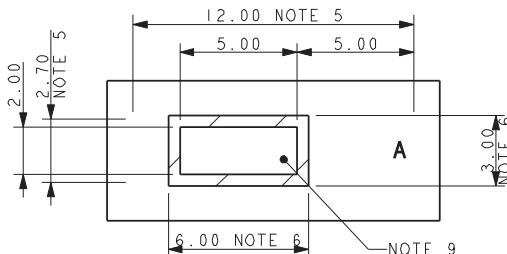
Single Compression Contact

70-9155-001-610-006
NOMINAL WORKING HEIGHT 1.50MM



**FULLY DEFLECTED
CONTACT**

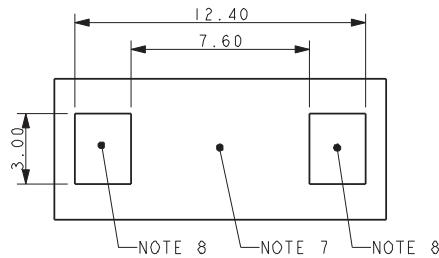
SUGGESTED MATING PCB LAYOUT



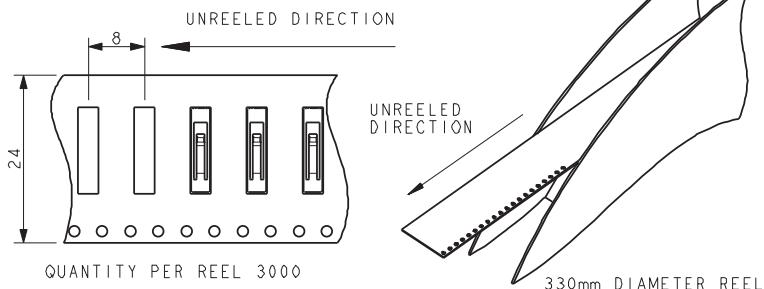
NOTES:

1. 9155 LOW PROFILE CONTACT, WORKING HEIGHT 0.75MM TO 1.25MM.
2. FOR FULL DETAILS REFER TO PRODUCT SPECIFICATION 201-01-153 AND APPLICATIONS NOTES 201-01-154.
3. MATERIAL: COPPER ALLOY 0.2MM THICK.
4. PLATING: NICKEL ALL OVER WITH GOLD ON CONTACT NOSE AND TIN ON THE REMAINDER. PARTS TO BE PACKED IN TAPE AND REEL. QTY PER REEL 3000.
5. OUTLINE OF CONNECTOR, ORIENTATION END "A".
6. AREA TO KEPT FREE OF SOLDER RESIST, FURTHER INFORMATION IN APPLICATION NOTES.
7. AREA BETWEEN PADS TO BE KEPT CLEAR OF TRACKS AND COMPONENTS.
8. SMT PADS PLATED TIN.
9. MATING PAD PLATED GOLD OVER NICKEL.

SUGGESTED SMT PCB LAYOUT



PACKING DETAILS



I/O CONNECTORS

Standard I/O, 15 Position, XX-9157



The 9157 series was specifically designed for portable equipment.

KYOCERA AVX now offers this two-part system as a standard product. The fixed SMT socket is designed to be housed within the confined dimensional constraints of the portable device.

The plug/cover connector has sprung contacts and is designed for termination to accessory equipment. The connector is designed to house fifteen signal contacts on a 1mm pitch rated at 1.5A. There is the option to include a switching RF coax.

A cradle SMT plug connector for docking applications is also available as standard and has the option of including a SMT RF coax.

Whatever your requirements, the 9157 series can also be customized to suit your application.

APPLICATIONS

- Mobile Phones
- PDA
- Medical
- Docking/Charging for any portable device

FEATURES AND BENEFITS

- Patented 20° angled face on the socket gives self-cleaning face when mated with plug.
- Metal Latching area integral to socket which saves PCB real estate.
- Integral to socket is a mechanical 50Ω switching coax for SMT termination.
- Single sprung plug contact design gives ten thousand mating cycles and cleaning/wiping action.
- Customer has option to terminate own RF coax using KYOCERA AVX custom tooling: 06-9157-7116-01-000.
- SMT plug has unique location pyramids that give positive alignment to portable device, and assist blind mating.
- RoHS Compliant.

ELECTRICAL

- Current Rating: 1.5 Amps / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 V-0
- Contact Material: Beryllium Copper (plug) Phosphor Bronze (socket)
- Plating: Gold over Nickel
- Durability: 10,000 Cycles

HOW TO ORDER

Plug Options – Example

XX	9157	015	00X
Prefix 10 = Plug 58 = Special	Series	No of Ways 15 = 015	RF Coax Option 000 = No RF Coax 001 = With RF Coax

00X

Contact Type

PACKING DETAILS		
Type	Size	Description
Wire	580	Tube
SMT	300	Tape & Reel

Code	Type	Contact Plating
006	Wire	Nickel, Gold Nose, Pure Tin Tail
007	SMT	Nickel, Gold Nose, Pure Tin Tail

Socket Options – Example

20	9157	015	00X	006
Prefix 20 = Socket 58 = Special	Series	No of Ways 15 = 015	RF Coax Option 000 = No RF Coax 001 = With RF Coax	Contact Type 006 = SMT

Cover Options – Example

30	9157	9700	00
Prefix	Series	Cover Kit Press and Screw Assembly	Standard
Code			00
9700			0XX

Code	Description	Qty
Cover Side	1	
Cover Body	1	
Latch Button	2	
Metal Latch	2	
Fixing Screw	2	

Code	Description	Qty
000	No Grommet	NA
035	3.5mm Grommet	1
050	5.0mm Grommet	1

PACKING DETAILS

Kit to be ordered in multiples of 580

Item	Packing	Parts packed in bags of
Cover Side		580
Cover Body		580
Latch Button		1160
Metal Latch		1160
Grommet		580
Fixing Screw		1160
		When Required

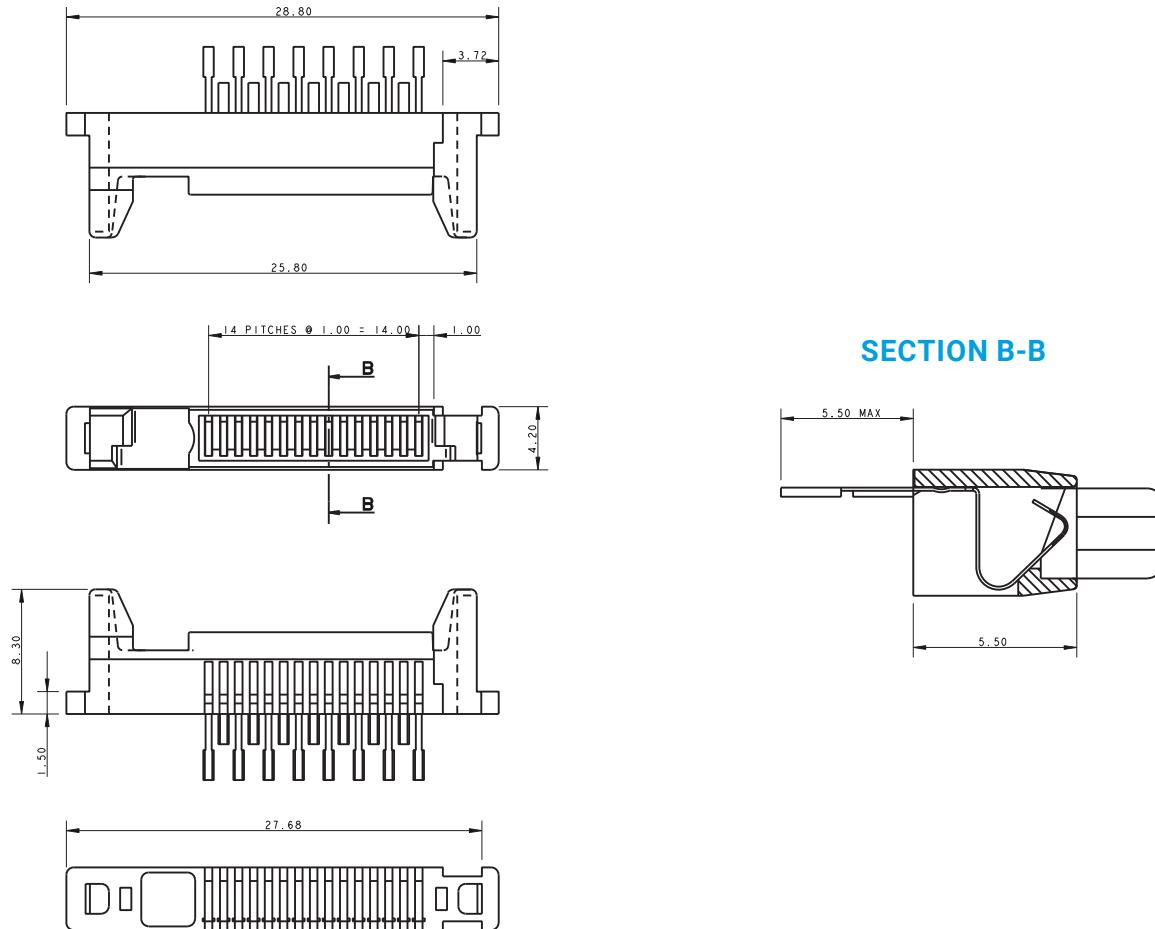


Patent:
2276285
5540599

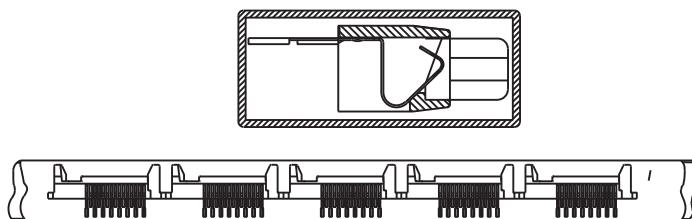
I/O CONNECTORS

Standard I/O, 15 Position, XX-9157

9157 PLUG WIRE WITHOUT COAX



PACKING DETAILS



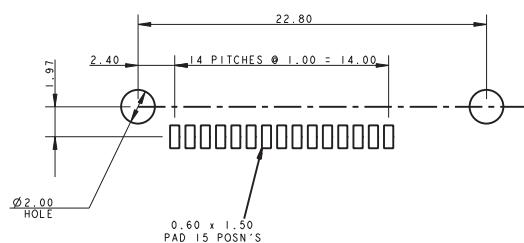
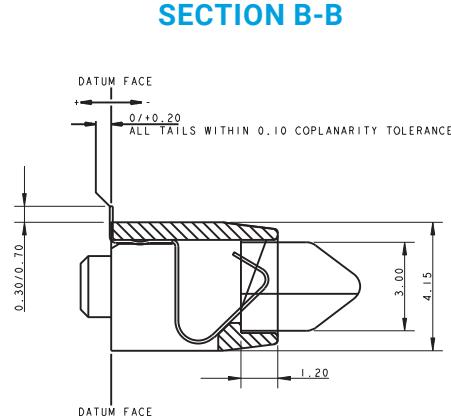
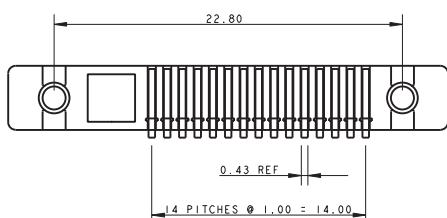
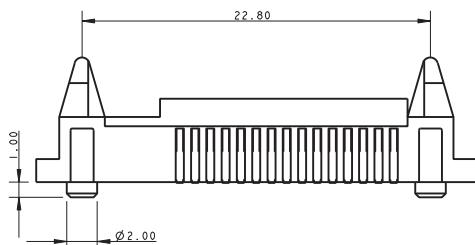
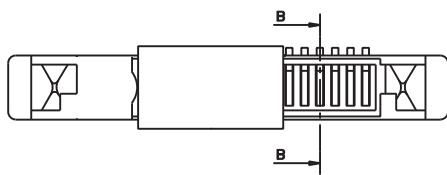
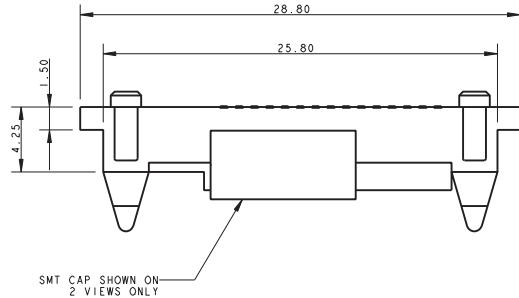
NOTES:

1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
2. PACKED IN TUBES, 20 PIECES PER TUBE.
3. MINIMUM ORDER QUANTITY 580 PIECES, THEREAFTER TO BE SUPPLIED IN MULTIPLES OF 580.
4. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

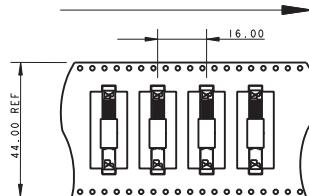
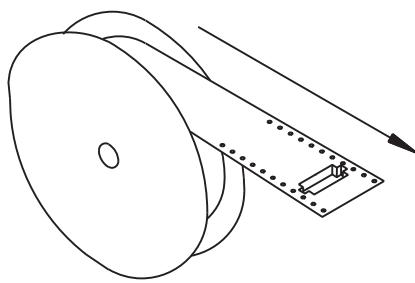
I/O CONNECTORS

Standard I/O, 15 Position, XX-9157

9157 PLUG SMT WITHOUT COAX



PACKING DETAILS



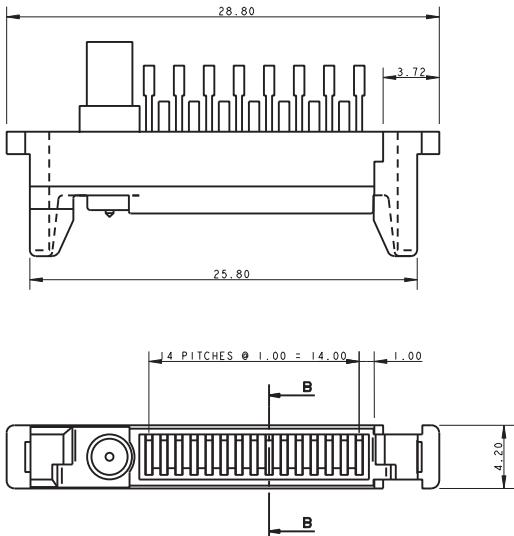
NOTES:

1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
2. PACKED IN TAPE AND REEL, 300 PIECES PER REEL.
3. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

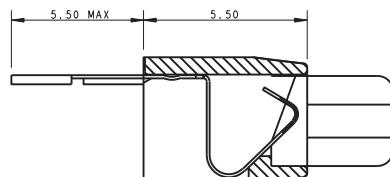
I/O CONNECTORS

Standard I/O, 15 Position, XX-9157

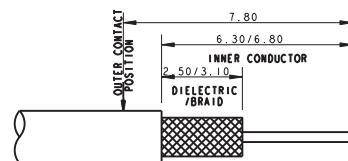
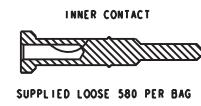
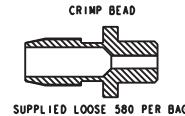
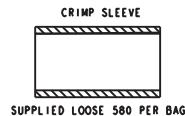
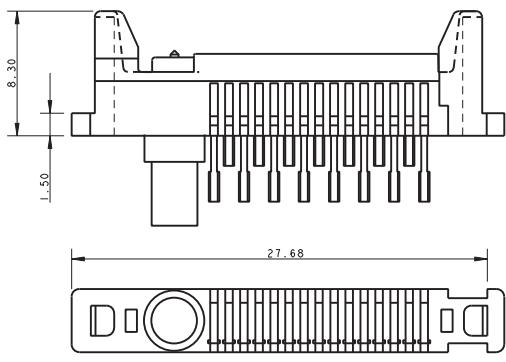
9157 PLUG WIRE WITH COAX



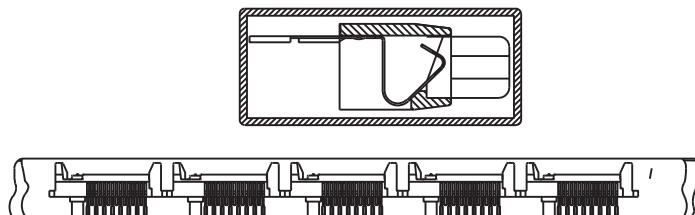
SECTION B-B



CRIMPING DETAILS



PACKING DETAILS



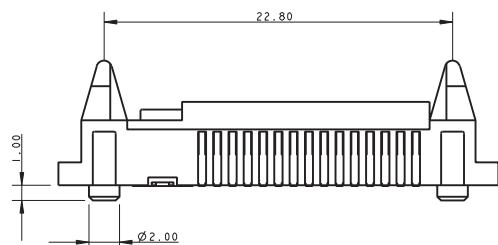
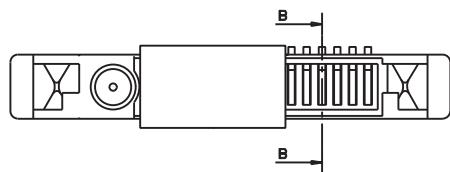
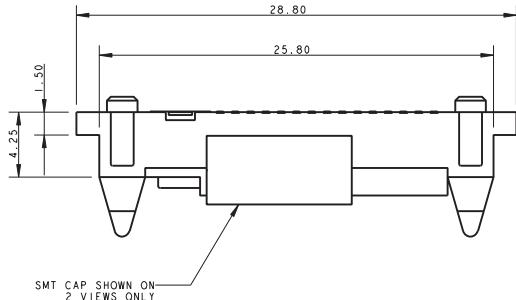
NOTES:

1. TOOL TO CRIMP BARREL ELECO PART NUMBER 06-9157-7117-01-000.
2. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
3. PACKED IN TUBES, 20 PIECES PER TUBE.
4. MINIMUM ORDER QUANTITY 580 PIECES, THEREAFTER TO BE SUPPLIED IN MULTIPLES OF 580.
5. FOR FULL PRODUCT INFORMATION REFER TO ELECO SPECIFICATION 201-01-079.

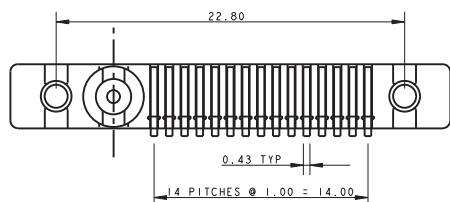
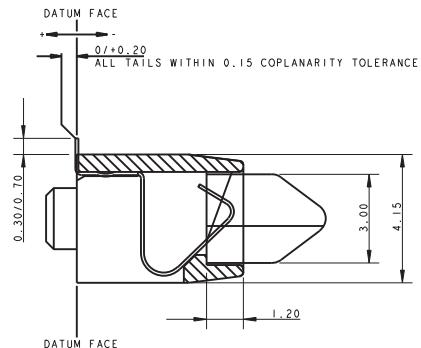
I/O CONNECTORS

Standard I/O, 15 Position, XX-9157

9157 PLUG SMT WITHOUT COAX

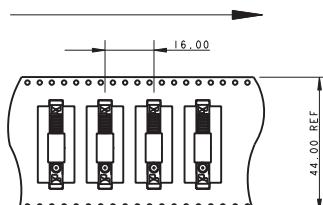
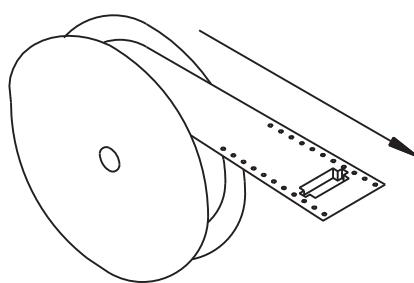
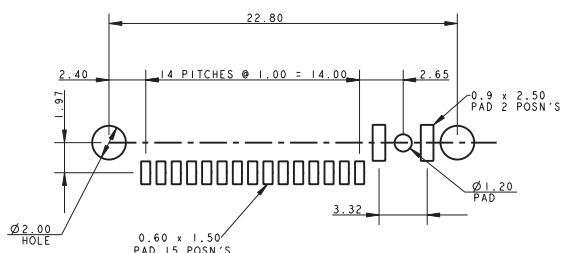


SECTION B-B



PACKING DETAILS

PCB LAYOUT



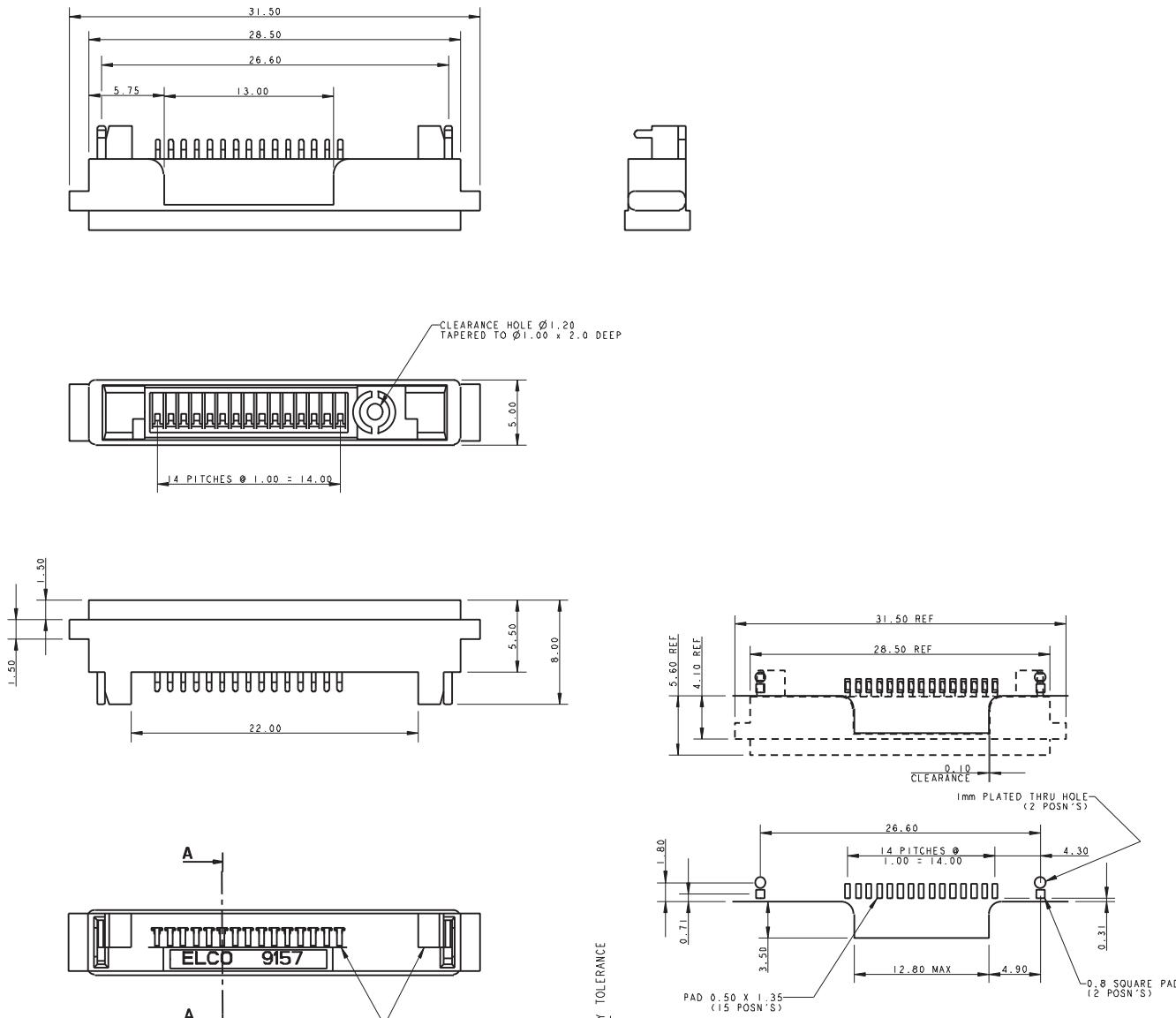
NOTES:

1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. PACKED IN TAPE AND REEL, 300 PIECES PER REEL.
3. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

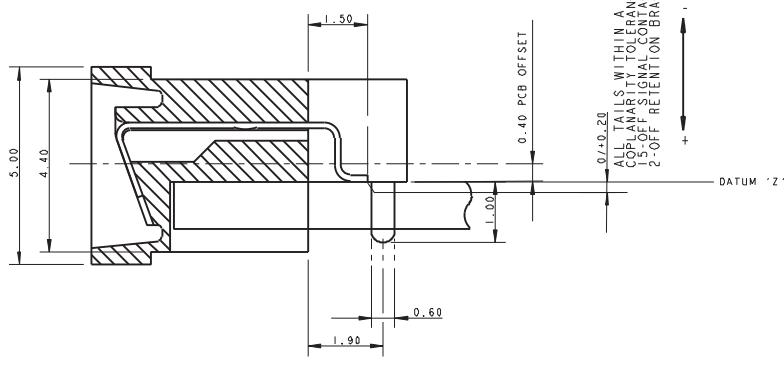
I/O CONNECTORS

Standard I/O, 15 Position, XX-9157

9157 SOCKET WITHOUT COAX



RECOMMENDED PCB LAYOUT



SECTION A-A

NOTES:

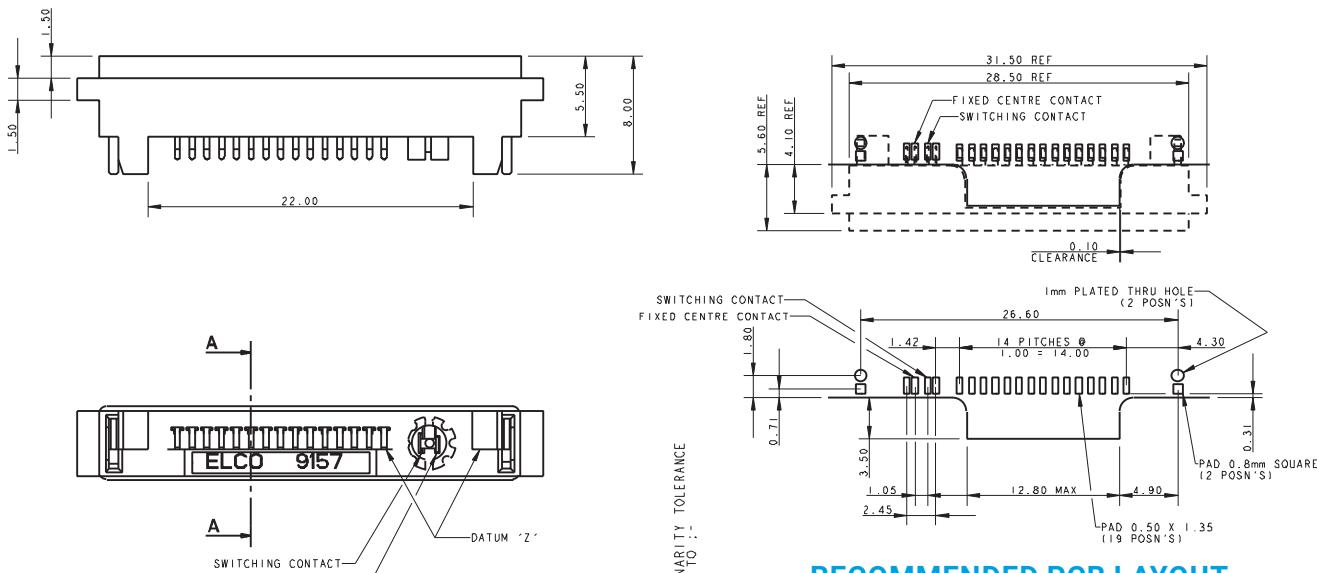
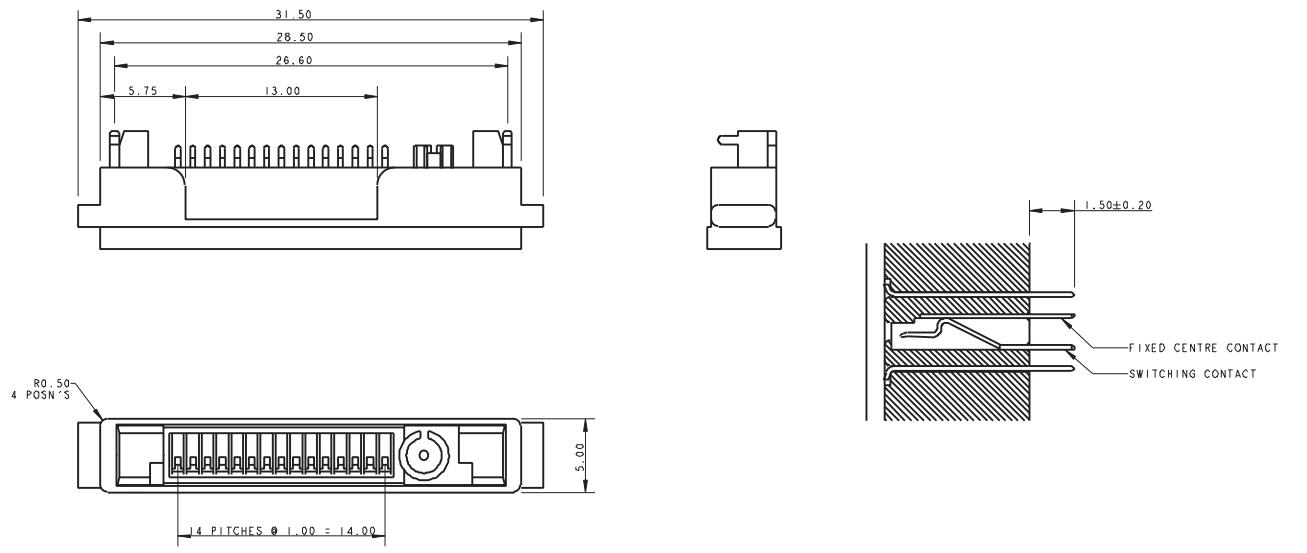
1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. FOR FULL INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

I/O CONNECTORS

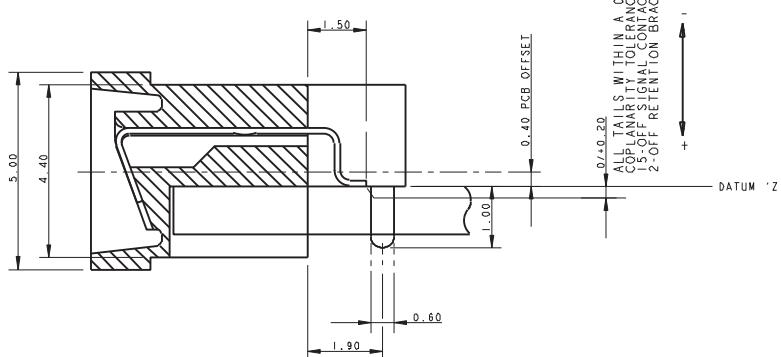
Standard I/O, 15 Position, XX-9157



9157 SOCKET WITH COAX



RECOMMENDED PCB LAYOUT



SECTION A-A

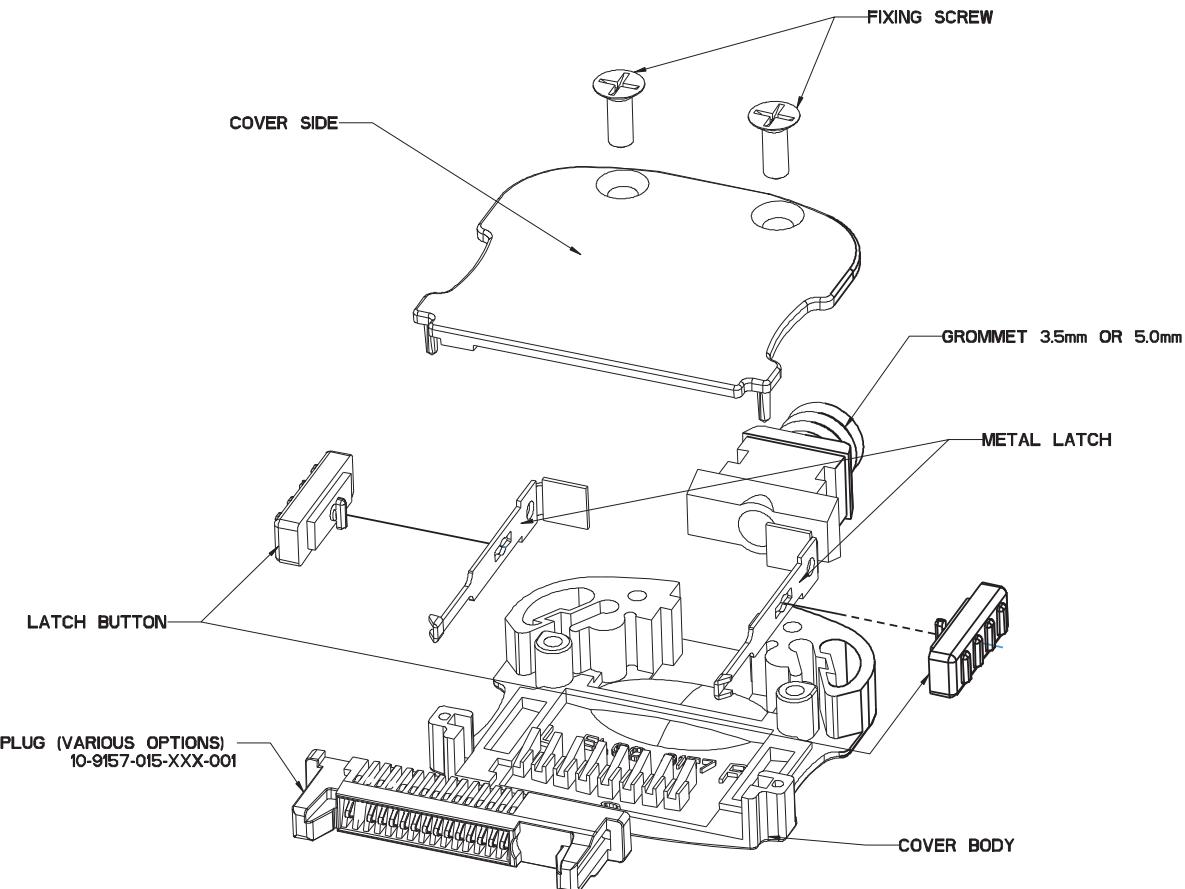
NOTES:

1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. FOR FULL INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

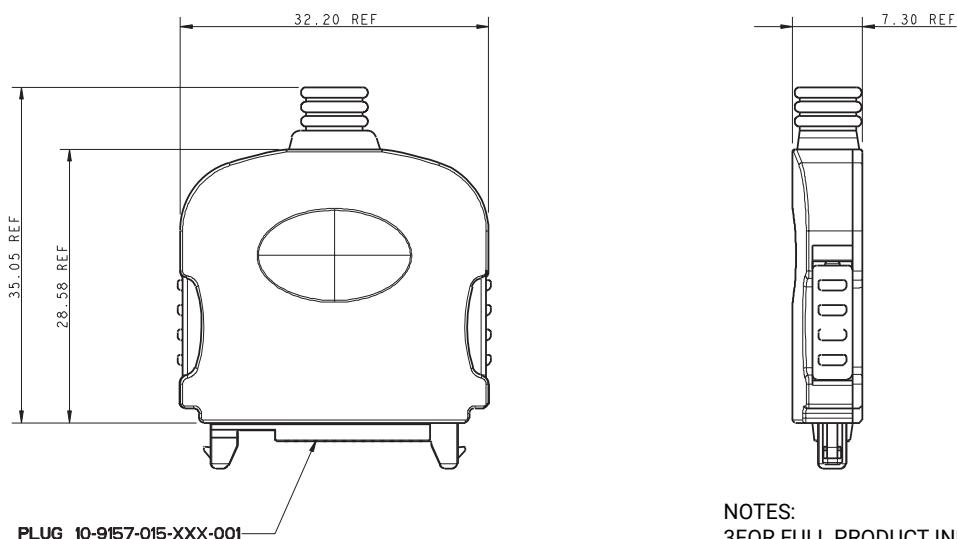
I/O CONNECTORS

Standard I/O, 15 Position, XX-9157

30-9157-9700-00-XXX
PRESS AND SCREW VERSION



**COVER KIT SHOWN FULL ASSEMBLED
WITH PLUG ASSEMBLY 10-9157-015-XXX-001**



NOTES:
3FOR FULL PRODUCT INFORMATION REFER TO
ELCO SPECIFICATION 201-01-079.

I/O CONNECTORS

Standard I/O, 19 Position, XX-9157



Based on our standard 15 way 9157 I/O family, KYOCERA AVX has now released a family 19 way devices. This range includes a SMT 90 degree plug, a wire socket version that is used with the standard 9157 cover and a SMT socket for charging applications.

Options with the 90 degree SMT socket include the sealing of the connector contacts and the connector to the housing. There is also an option to have an EMLB (early mate, late break) on pins 1 and 19.

To achieve the seal to the device housing, it may be necessary to customize the device housing design.

On the SMT 90 degree version, we also have the capability of an integrated DC jack, enabling both the DC jack and the 19 way cover to be plugged in at the same time.

APPLICATIONS

- Mobile Phones
- PDA
- Medical
- Docking/Charging for any portable device

FEATURES AND BENEFITS

- Patented 20° angled face on the socket gives self-cleaning face when mated with plug.
- Metal Latching area integral to socket which saves PCB real estate.
- Integral to socket is a mechanical 50Ω switching coax for SMT termination.
- Single sprung plug contact design gives ten thousand mating cycles and cleaning/wiping action.
- Customer has option to terminate own RF coax using KYOCERA AVX custom tooling: 06-9157-7116-01-000.
- SMT plug has unique location pyramids that give positive alignment to portable device, and assist blind mating.
- RoHS Compliant.

ELECTRICAL

- Current Rating: 1.5 Amps / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 V-0
- Contact Material: Beryllium Copper (plug) Phosphor Bronze (socket)
- Plating: Gold over Nickel
- Durability: 10,000 Cycles

AVAILABLE DEVICES

10 9157 019 000 006 **Plug wire version**

10 9157 019 000 007 **SMT charging version**

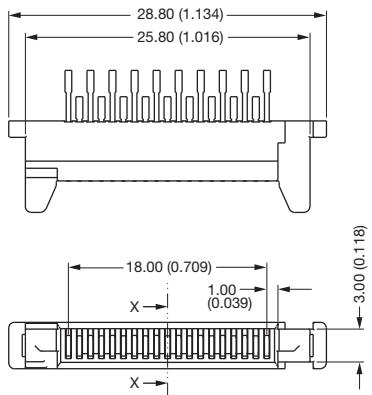
20 9157 019 000 006 **90 degree SMT socket**

30 9157 97 XX 00 000 **Cover options**

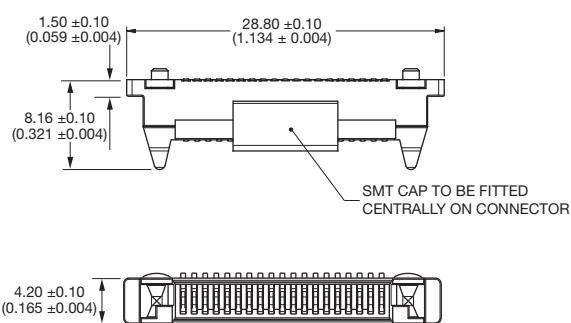
I/O CONNECTORS

Standard I/O, 19 Position, XX-9157

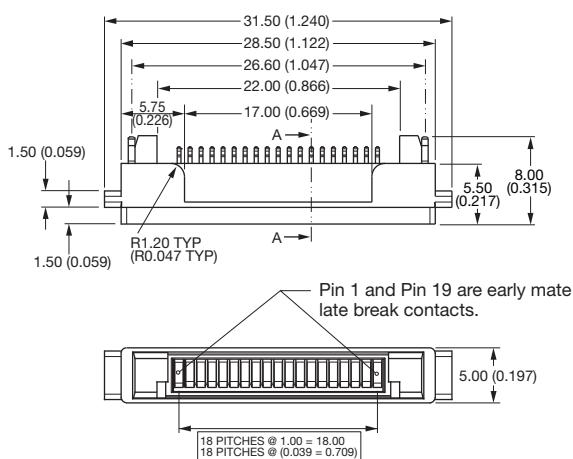
Plug Wire



SMT Plug

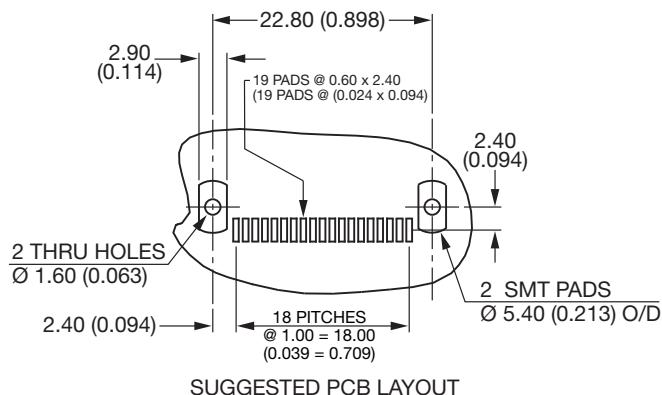


SMT Socket



SMT Plug

(Suggested PCB Layout)



SUGGESTED PCB LAYOUT

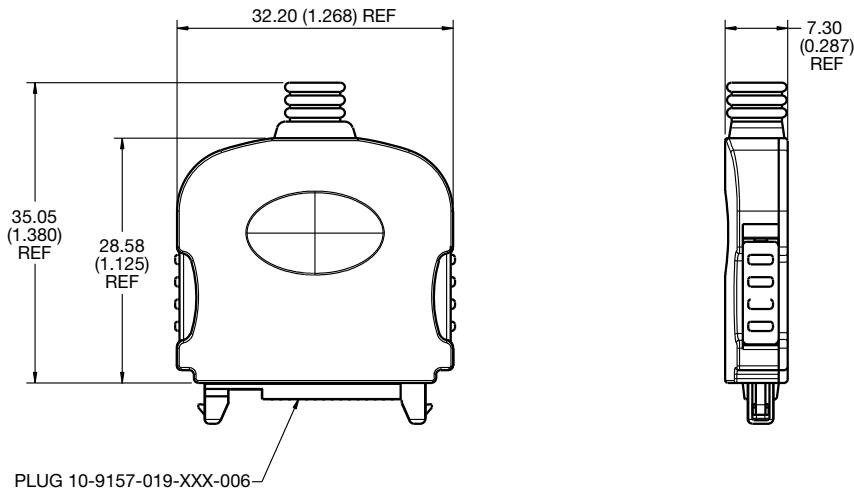
SMT Socket (Suggested PCB Layout)

I/O CONNECTORS

Standard I/O, 19 Position, XX-9157



Cover Kit



I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257



An I/O interconnect system designed for portable equipment.

KYOCERA AVX offers this plug and socket reduced size system as a standard product. The fixed SMT socket is designed to be mounted on a PCB and housed within a portable device. The plug is designed for cable termination with options of single and double sided contacts and customizing the overmold cover or parts can be supplied as connector only for sub contract termination. The socket connector houses 16 contacts in two rows on 1.25mm pitch with a rating of 1 amp per contact. Both connectors are RoHS compliant.

APPLICATIONS

- Cellular Phones
- Handheld Devices
- Industrial Modules
- Medical Electronics

FEATURES AND BENEFITS

- No latching is required due to the click design of the contacts.
- Optional customization of the overmold cover.
- Options of single row (8 way) or dual row (16 way) plug connector.
- Compact size to optimize PCB real estate.
- Metal outer cover provides integrated PCB location and solder tab.
- Positive alignment and orientation of the plug and socket.
- 5K mating cycles and 1 amp rated.

ELECTRICAL

- Current Rating: 1 Amp / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

- Operating Temperature: -55°C to +85°C

MECHANICAL

- Insulator Material: Nylon 46; UL94 V-0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5,000 Cycles

HOW TO ORDER

Plug Options – Example

10 9257

Prefix

Series

0XX

No of Ways

001

Contact

003

Plating Option

PACKING

Parts packed in tubes
50 per tube



008 = 8 Way – One side of the moulding loaded with contacts
016 = 16 Way – Both sides of the moulding loaded with contacts

Socket Options – Example

20

9257

016

001

01

3

Prefix

Series

No of Ways

Contact

Solder Bracket

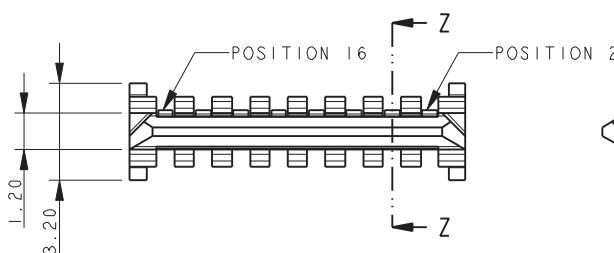
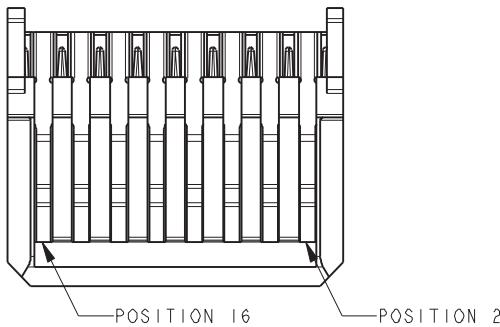
Plating Option

016 = 16 001 = SMT Termination 001 = Solder Bracket with Location Pegs
3 = 0.8µm Selective Gold, Tin Tail

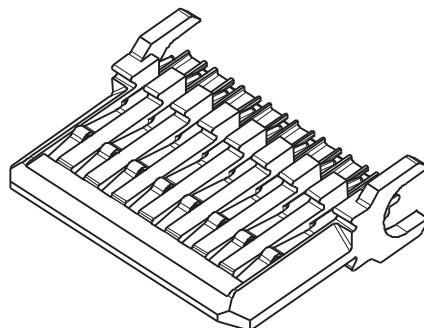
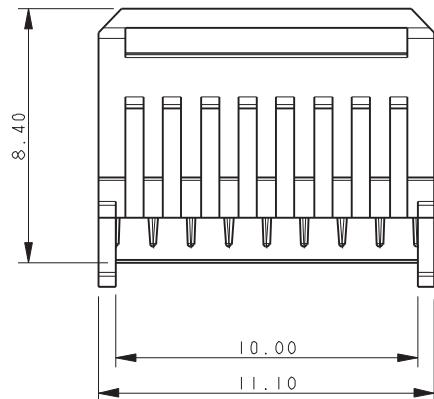
I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257

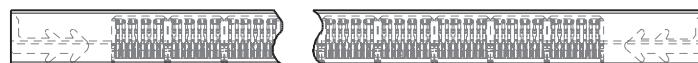
9157 SOCKET WITH COAX



SECTION Z-Z



50 PARTS PER TUBE



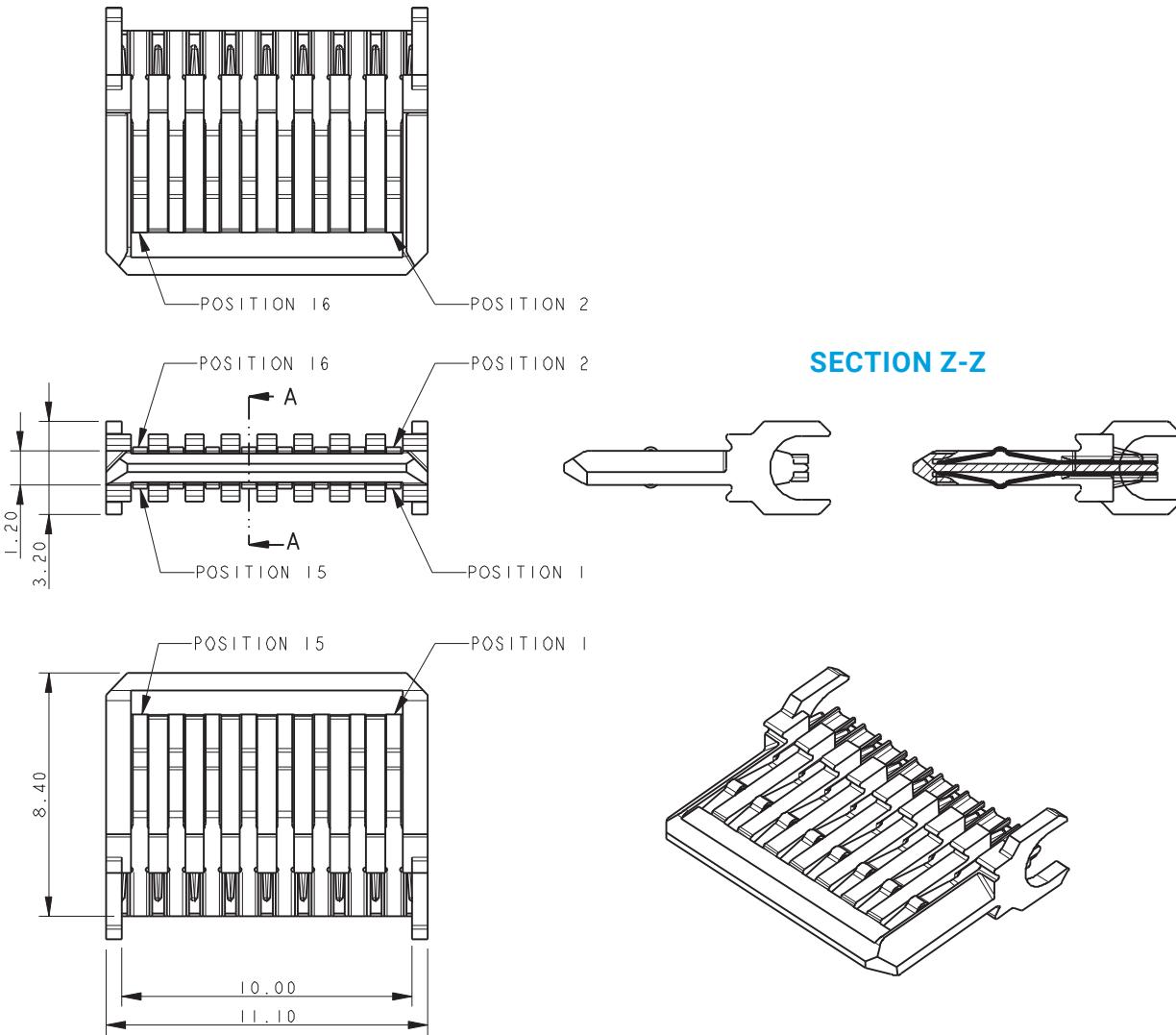
NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS TOLERANCED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-089.
3. POSITIONS 2, 4, 6 ... 16 USED, POSITION 1, 3, 5 ... UNUSED.

I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257

DOUBLE SIDED 16 WAY I/O PLUG CONNECTOR



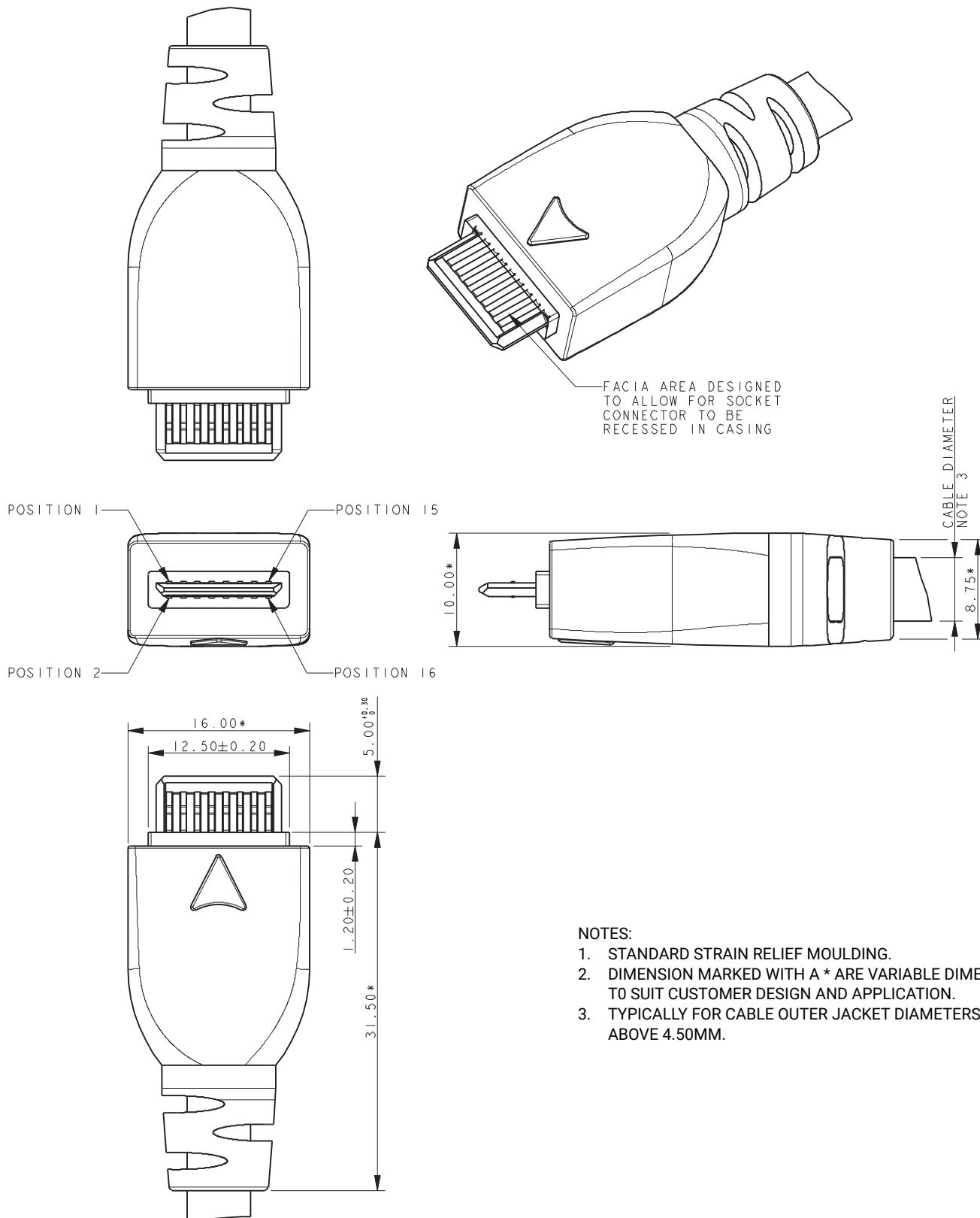
NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS TOLERANCED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-089.
3. POSITIONS 2, 4, 6 ... 16 USED, POSITION 1, 3, 5 ... UNUSED.

I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257

SUGGESTED OVERMOULDING FOR PLUG CONNECTOR (16 WAY – STANDARD STYLE)



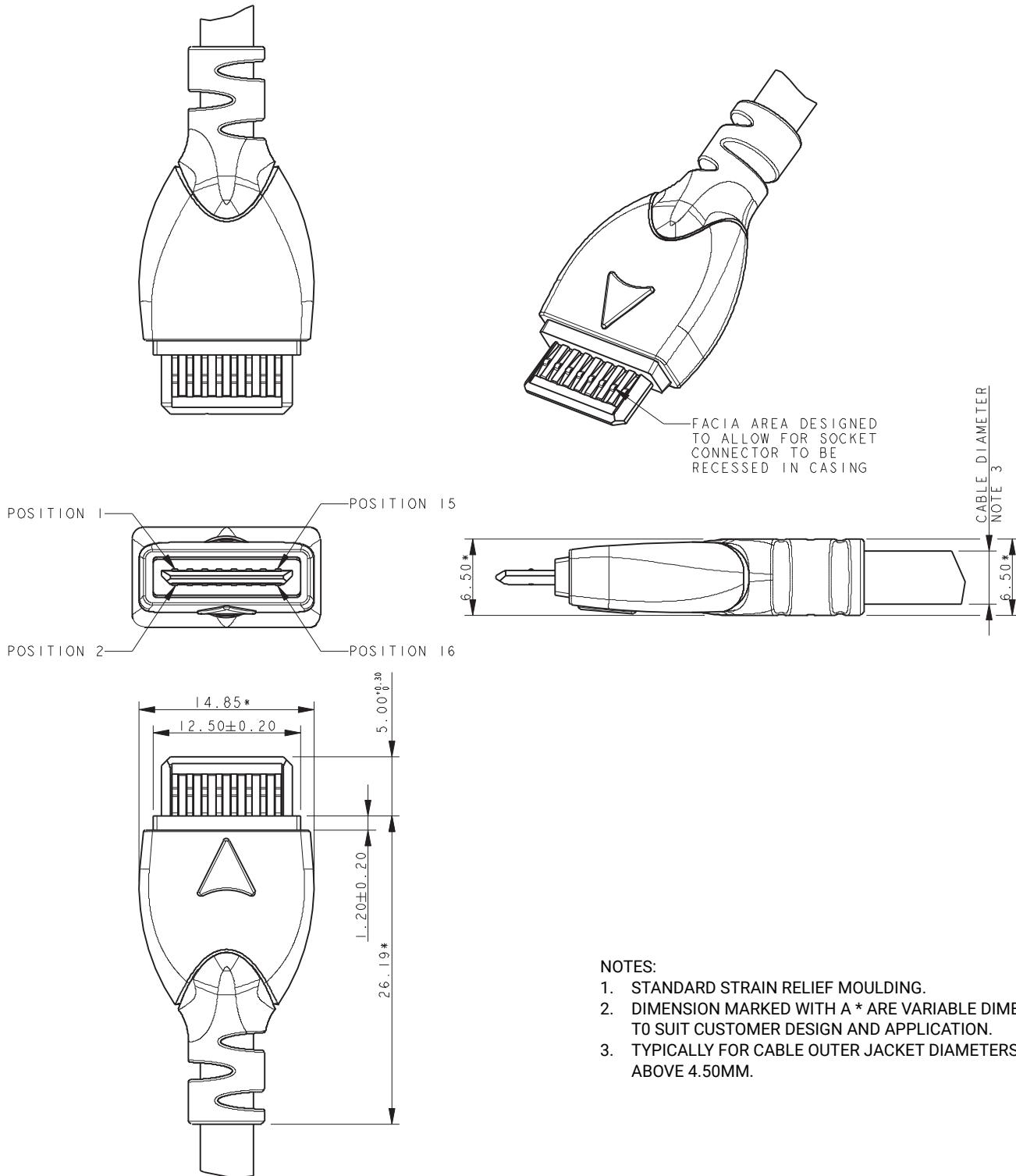
NOTES:

1. STANDARD STRAIN RELIEF MOULDING.
2. DIMENSION MARKED WITH A * ARE VARIABLE DIMENSION TO SUIT CUSTOMER DESIGN AND APPLICATION.
3. TYPICALLY FOR CABLE OUTER JACKET DIAMETERS ABOVE 4.50MM.

I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257

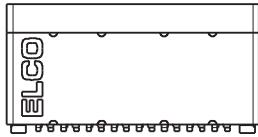
SUGGESTED OVERTOURNAMENT FOR PLUG CONNECTOR (16 WAY - SLIM STYLE)



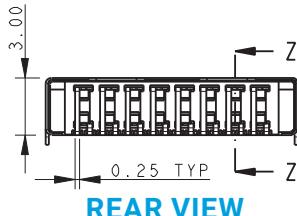
I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257

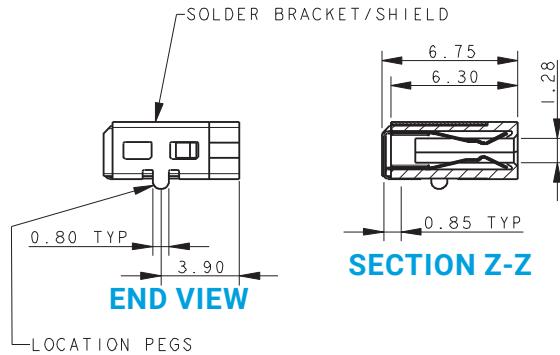
16 WAY SOCKET CONNECTOR



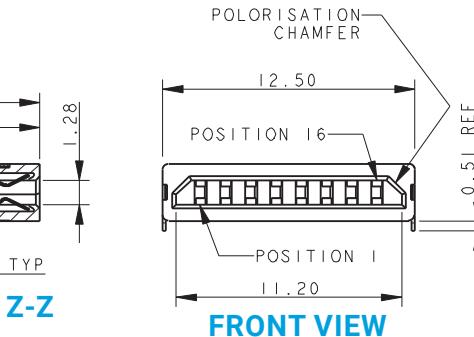
TOP VIEW



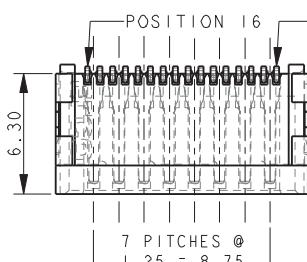
REAR VIEW



END VIEW



FRONT VIEW

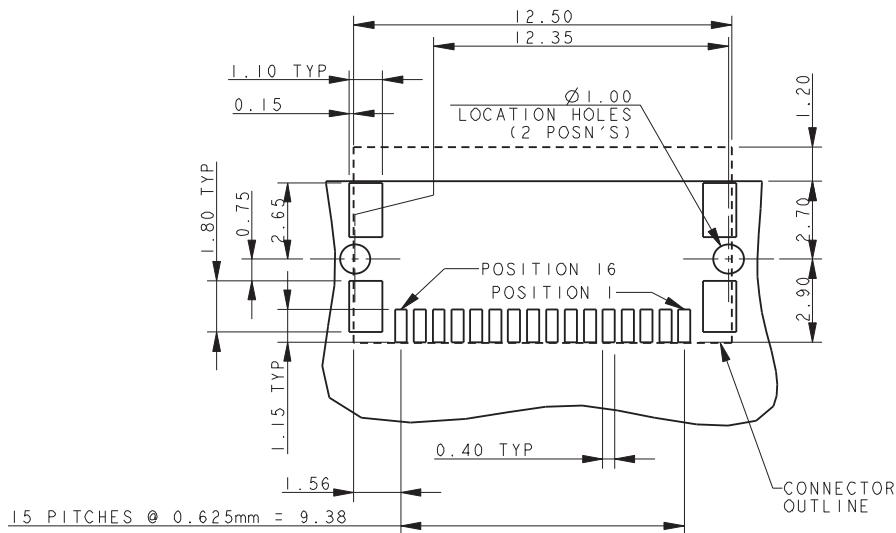


UNDERSIDE VIEW

PACKING DETAILS

REEL QTY	1100
LEADER	33 PKTS
TRAILER	33 PKTS
REELS/BOX	5
PACK QTY	5500

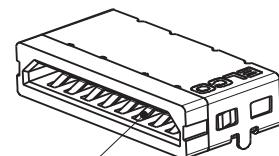
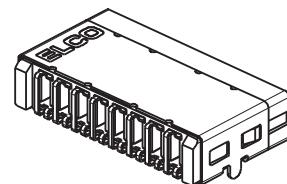
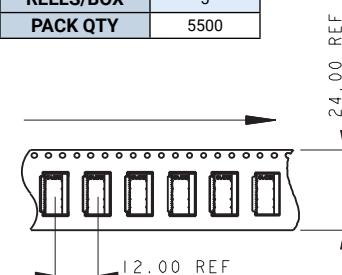
PCB LAYOUT



ODD NUMBERED CONTACTS LOWER ROW
EVEN NUMBERED CONTACTS UPPER ROW

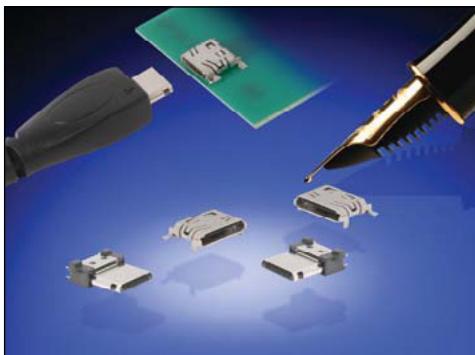
NOTES:

1. PROPOSAL FOR 16 WAY I/O SOCKET.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELECO SPEC 201-01-089.
3. GENERAL TOLERANCE ± 0.20 MM UNLESS OTHERWISE STATED.
4. SMT FEET WITHIN ± 0.10 MM COPLANARITY.



I/O CONNECTORS

Mini I/O, 12 Position XX-9257



KYOCERA AVX offers the 12 way mini I/O connector as a standard product. The fixed SMT socket is designed to be mounted on a PCB and housed within a portable device. The plug is designed for cable termination with options of single and double sided contacts. Parts can be supplied as connectors only for sub contract termination, or with a custom overmold cover. The socket connector houses 12 contacts in a single row on 0.50mm pitch.

APPLICATIONS

- Medical Electronics
- Cellular Phones
- Industrial Modules
- Hand Held Devices

FEATURES AND BENEFITS

- No latching required due to the click design of the contacts.
- Optional customization of the overmold cover.
- Compact size to optimize PCB real estate.
- Metal outer cover provides integrated PCB location and solder tab.
- Positive alignment and orientation of the plug and socket.

ELECTRICAL

- Current Rating: 0.5 Amp / Contact
- Voltage Rating: 50 VAC

ENVIRONMENTAL

- Operating Temperature: -55°C to +85°C

MECHANICAL

- Insulator Material: High Temperature Plastic; UL94 V-0
- Contact Material: Phosphor Bronze (Plug) Copper Alloy (Socket)
- Plating: Gold over Nickel
- Durability: 5,000 Cycles

HOW TO ORDER

Plug Options

10	9257	012	101	006
Prefix	Series	No of Ways	Contact	Contact Plating Option
10 = Plug	012 = 12 Way		001 = Solder Tail	006 = 0.25µm Gold over Nickel



Socket Options – Example

20	9257	016	101	01	6
Prefix	Series	No of Ways	Contact	Solder Bracket	Plating Option
20 = Socket	016 = 12 Way		101 = SMT Termination	001 = Solder Bracket with Location Pegs	3 = 0.25µm Gold over Nickel

Certification: UL File #E90723



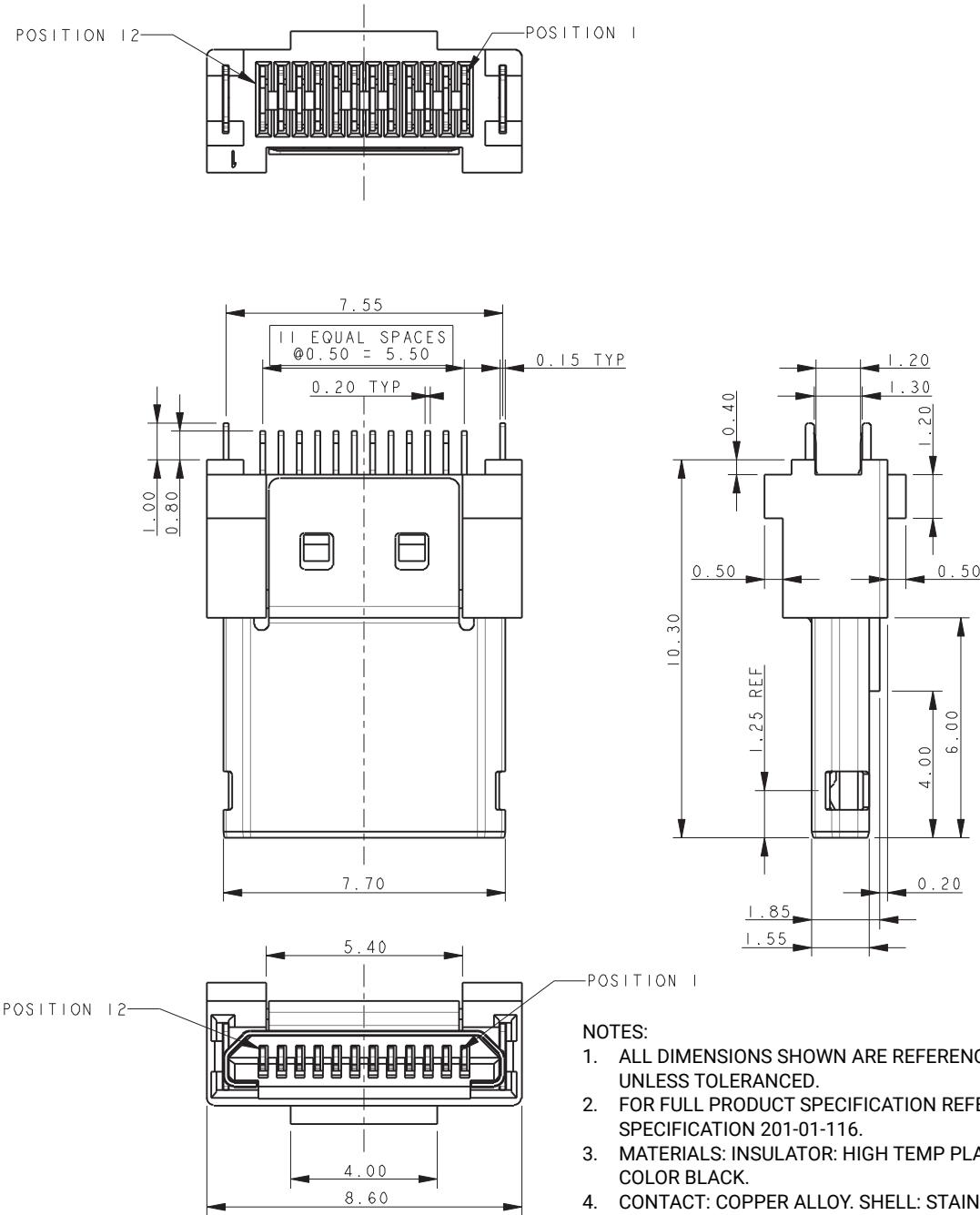
The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

I/O CONNECTORS

Mini I/O, 12 Position XX-9257



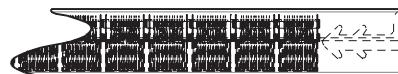
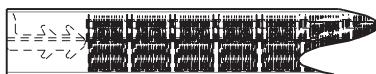
9257 STANDARD 12 WAY MINI I/O PLUG



NOTES:

1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-116.
3. MATERIALS: INSULATOR: HIGH TEMP PLASTIC, UL94 V-0, COLOR BLACK.
4. CONTACT: COPPER ALLOY. SHELL: STAINLESS STEEL.
5. PLATING: CONTACT: GOLD OVER NICKEL. SHELL: GOLD OVER NICKEL.
6. PACKED IN TUBES, 60 PIECES PER TUBE.

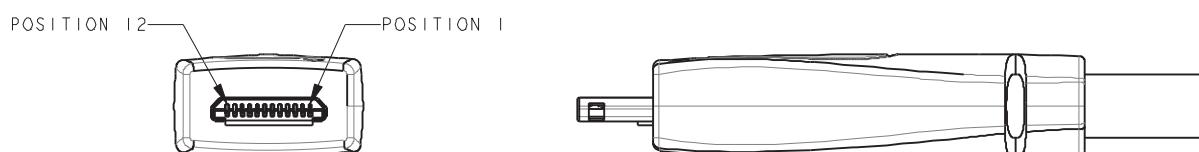
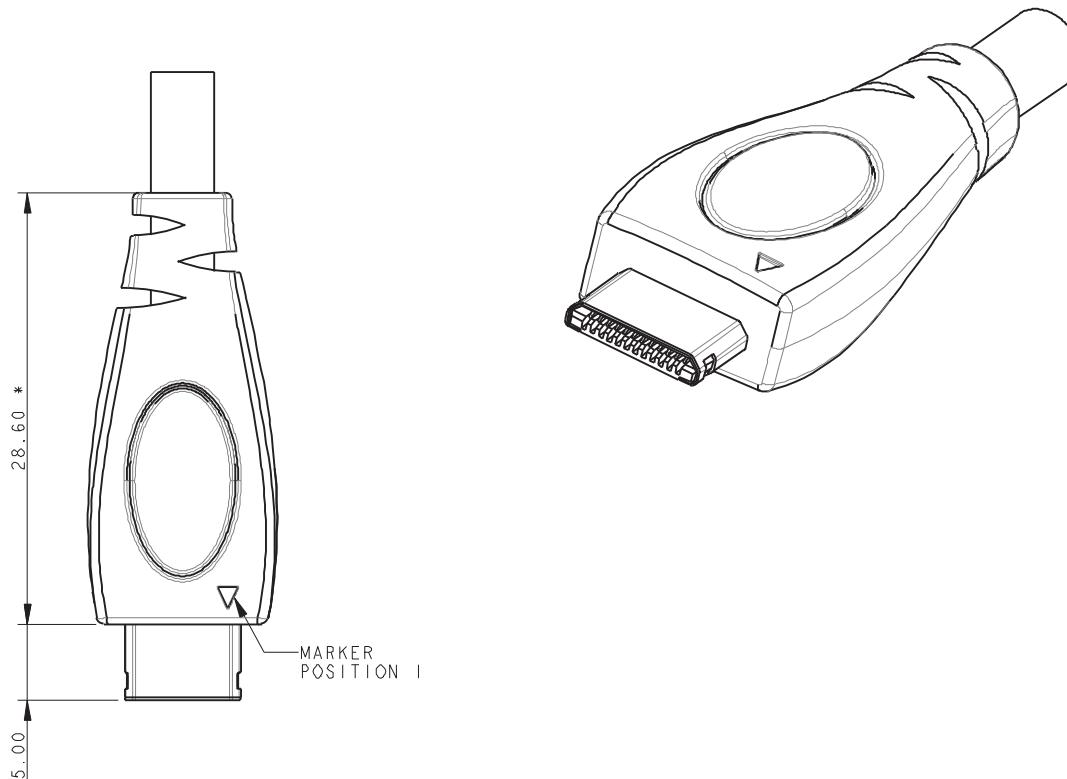
PACKING DETAILS 60 PARTS PER TUBE



I/O CONNECTORS

Mini I/O, 12 Position XX-9257

SUGGESTED OVERMOULDING FOR PLUG CONNECTOR



NOTES:

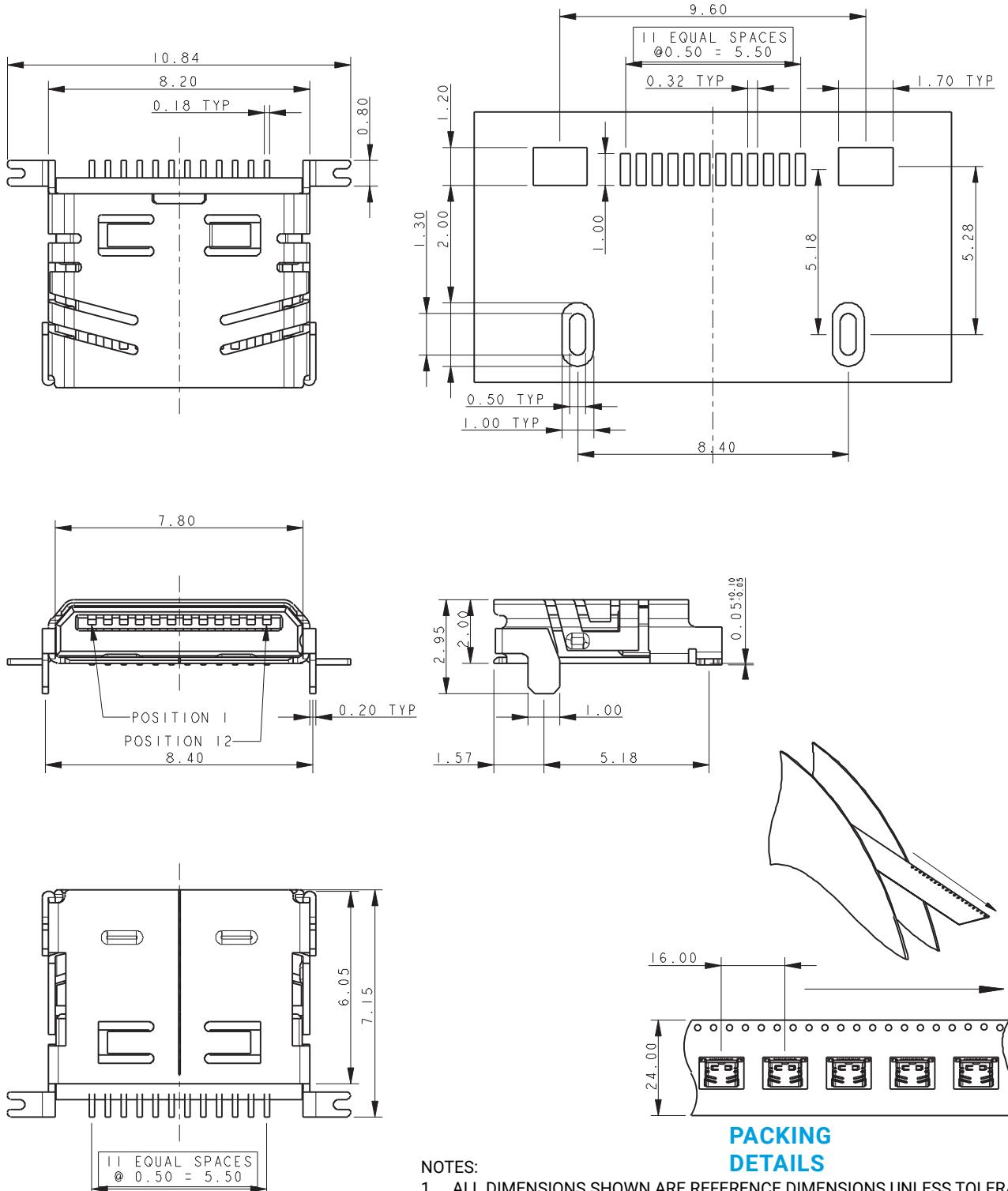
DIMENSIONS MARKED WITH A * ARE VARIABLE DIMENSIONS
TO SUIT CUSTOMER DESIGN AND APPLICATION

I/O CONNECTORS

Mini I/O, 12 Position XX-9257



9257 STANDARD 12 WAY MINI I/O SOCKET



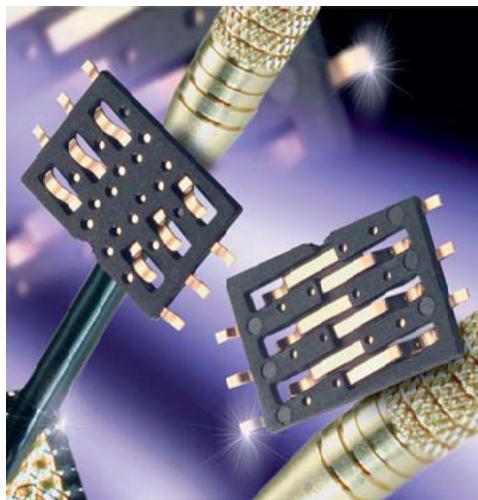
PACKING DETAILS

NOTES:

1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-116.
3. MATERIALS: INSULATOR: HIGH TEMP PLASTIC, UL94 V-0, COLOR BLACK. CONTACT: COPPER ALLOY. SHELL: STAINLESS STEEL.
4. PLATING: CONTACT: GOLD OVER NICKEL. SHELL: GOLD OVER NICKEL.
5. PACKED IN TAPE AND REEL, 1200 PIECES PER REEL.

SIM CARD CONNECTORS

SIM BLOCK 9162-000



The standard SIM connector is specifically designed for handheld devices requiring secure subscriber identification.

The connectors are available in a standard 6 pin configuration on a 2.54mm pitch with a 0.8mm height.

Contacts are stamped, gold plated, rated at 0.5A, and 5000 mechanical cycles.

Our contact design is specifically rounded to avoid any possible damage during and after card insertion to the card itself, assuming normal use. The design also incorporates protection features to avoid contact damage during this operation such as contact snagging.

Please contact the appropriate sales office for further details.

APPLICATIONS

- Cellular Phones
- Radios

FEATURES AND BENEFITS

- Produced for use with both full ISO cards and mini SIM cards.
- The insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared soldering processes.
- Supplied on tape and reel packaging for pick and place assembly.
- RoHS Compliant.

ELECTRICAL

- Current Rating: 0.5 Amp / Contact
- Voltage Rating: 50 VAC

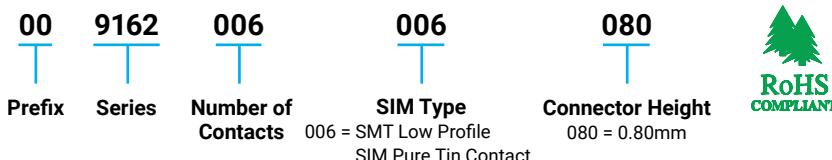
ENVIRONMENTAL

- Operating Temperature: -55°C to +80°C

MECHANICAL

- Insulator Material: Glass Filled LCP
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5,000 Cycles

HOW TO ORDER

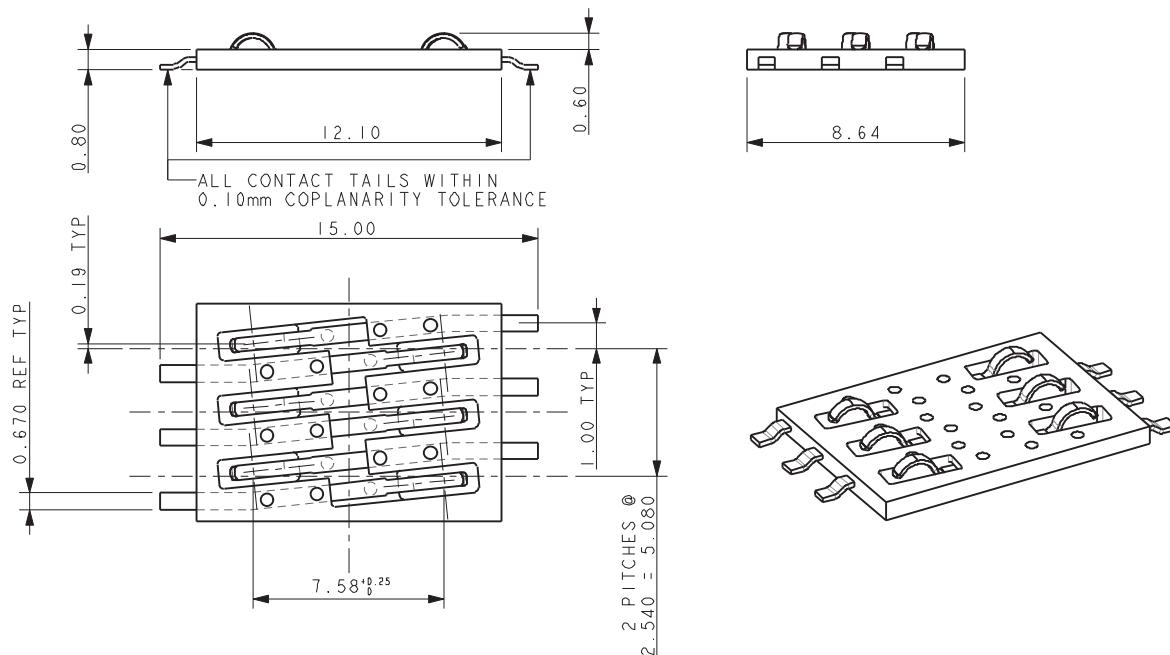


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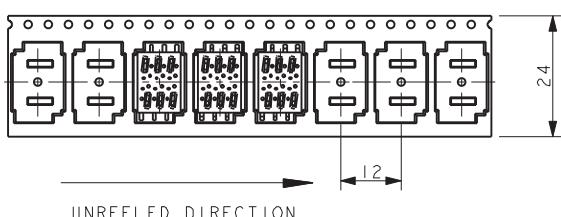
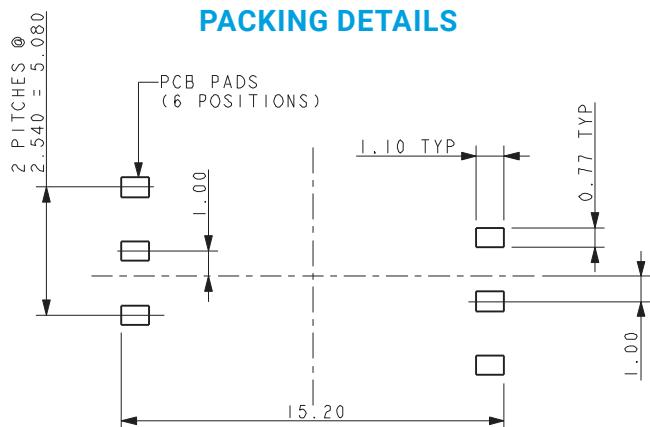
SIM CARD CONNECTORS

SIM BLOCK 9162-000

CONNECTOR HEIGHT 0.80MM

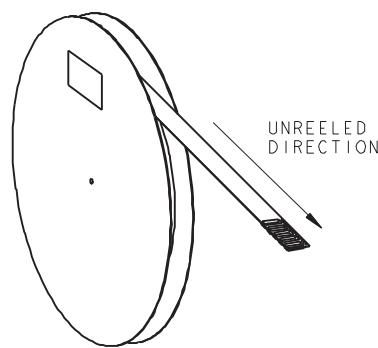


PACKING DETAILS



PACKING DETAILS

REEL QTY	1300
LEADER	500MM
TRAILER	500MM
REELS/BOX	5
PACK QTY	6500



(SHOWING USER DIRECTION OF FEED)

NOTES:

1. SALES DRAWING FOR SLIDE IN SIM READER.
2. FOR PRODUCT SPECIFICATION REFER TO ELCO SPEC. 201-01-084.
3. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE STATED.
4. INSULATOR MATERIAL: LCP, GLASS FILLED, COLOR BLACK.
5. CONTACT MATERIAL COPPER ALLOY: SIM CONTACTS NOSE PLATED WITH GOLD, SMT PADS PLATED WITH PURE TIN.

SIM CARD CONNECTORS

Slide-In SIM 9162-200



The standard SIM connector is specifically designed for handheld devices requiring secure subscriber identification.

Following on from the introduction of our standard SIM block with an offering of 3 standard heights, 0.80mm, 1.60mm, or 2.40mm, KYOCERA AVX is now adding another standard to the 9162 series SIM connectors, the slide-in SIM.

Unlike SIM blocks which require SIM card guides to aid insertion, removal and retention of the SIM card, the slide-in SIM has guides as part of the connector mold design.

Contacts are stamped, gold plated, rated 0.5A, and 5000 mechanical cycles.

Our contact design is specifically rounded to avoid any possible damage during and after card insertion to the card itself, assuming normal use. The design also incorporates protection features to avoid contact damage during this operation such as contact snagging.

Please contact the appropriate sales office for further details of this service.

APPLICATIONS

- Cellular Phones
- Radios

FEATURES AND BENEFITS

- Produced for use with mini SIM cards.
- The insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared soldering processes.
- Supplied on tape and reel packaging for pick and place assembly.
- The all plastic design, assuming normal use prevents damage to the SIM card on insertion.
- Optional SMT contact size:
 - Standard SMT contact size – 1.60mm x 1.60mm
 - Narrow SMT contact size – 1.05mm x 0.60mm
- RoHS Compliant available.

ELECTRICAL

- Current Rating: 0.5 Amp / Contact
- Voltage Rating: 50 VAC

ENVIRONMENTAL

- Operating Temperature:
-55°C to +105°C

MECHANICAL

- Insulator Material: Nylon 46 UL94HB
- Contact Material: Phosphor Bronze
- Plating: Gold over Nickel
- Durability: 5,000 Cycles

HOW TO ORDER

00 9162
Prefix Series

006
Number of Contacts

2X
SIM Type

20 = Standard SMT Foot
Slide-in SIM Reader
21 = Narrow SMT Foot
Slide-in SIM Reader

6
Plating Option

6 = Selective Gold
Pure Tin Tails

175
Connector Height

175 = 1.750mm
See pages 64 & 65

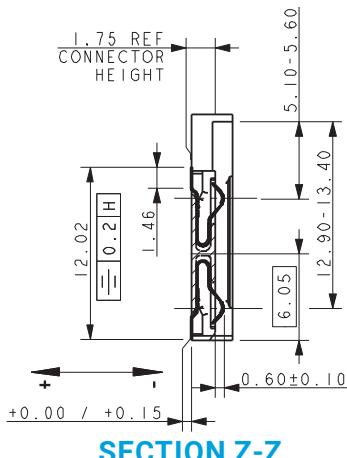


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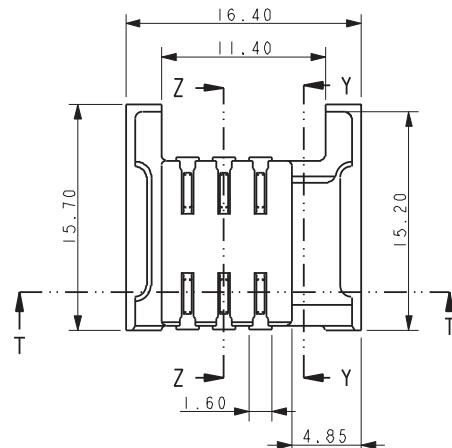
SIM CARD CONNECTORS

Slide-In SIM 9162-200

WIDE SMT FOOT VERSION

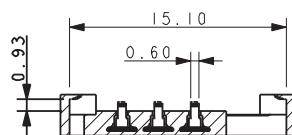


SECTION Z-Z

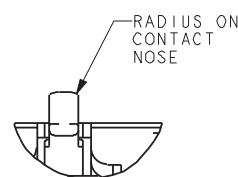


SECTION Y-Y

SECTION
Z-Z
CONTACTS
DEFLECTED

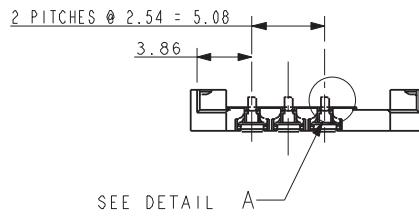
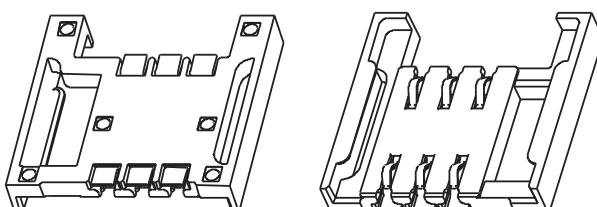


SECTION T-T



DETAIL A

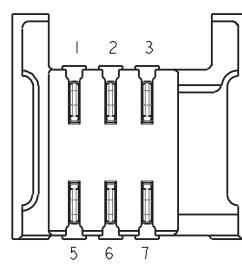
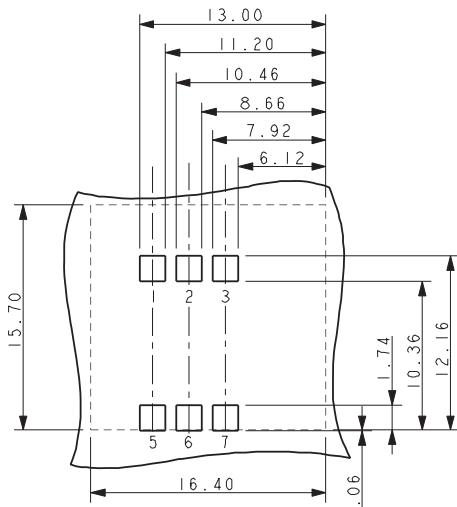
PART SECTION Z-Z ROTATED THRO 90°



NOTES:

1. SALES DRAWING FOR SLIDE IN SIM READER.
2. FOR PRODUCT SPECIFICATION REFER TO
ELCO SPEC. 201-01-085.
3. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE
STATED.
4. INSULATOR MATERIAL: NYLON GLASS FILLED.
5. CONTACT MATERIAL COPPER ALLOY:
SIM CONTACTS NOSE PLATED WITH GOLD,
SMT PADS PLATED WITH PURE TIN.
6. PACKING DETAILS SEE PAGE 75.

PAD LAYOUT



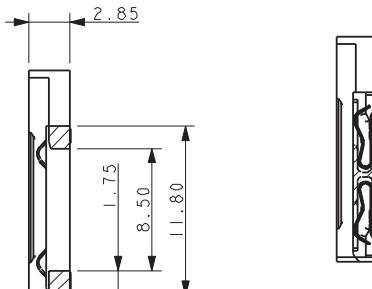
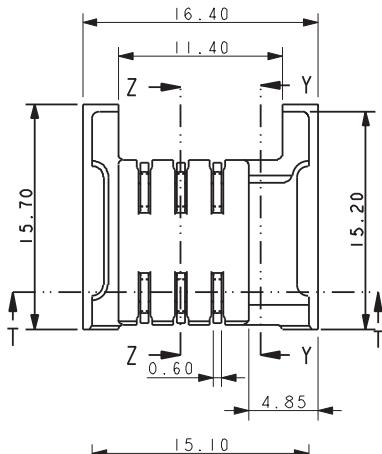
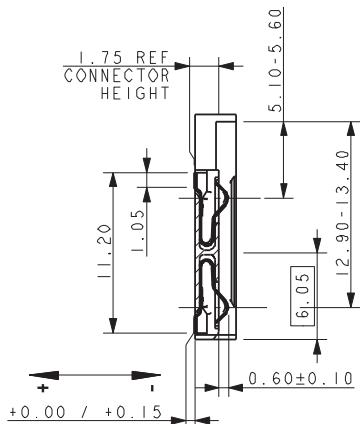
CONTACT FUNCTIONS (ISO7816):

1. SSUPPLY VOLTAGE Vcc.
2. RESET
3. CLOCK
4. GROUND
5. PROGRAM VOLTAGE Vpp.
6. I/O

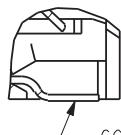
SIM CARD CONNECTORS

Slide-In SIM 9162-200

NARROW SMT FOOT VERSION



DEFLECT

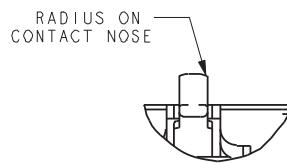
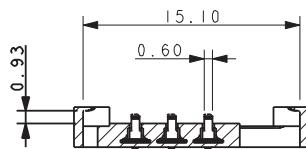


CONTACT TAILS
WITHIN 0.10mm
COPLANARITY
TOLERANCE
SINGLE ROW

PART SECTION Z-Z
ROTATED THRO' 90°

PART SECTION Z-Z

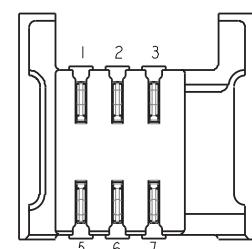
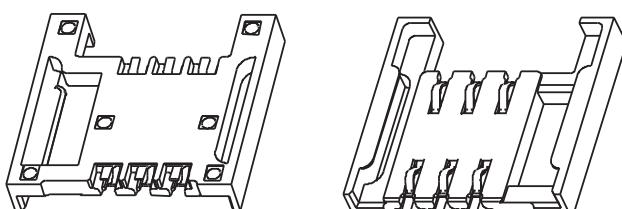
ROTATED THRO 90°



DETAIL A

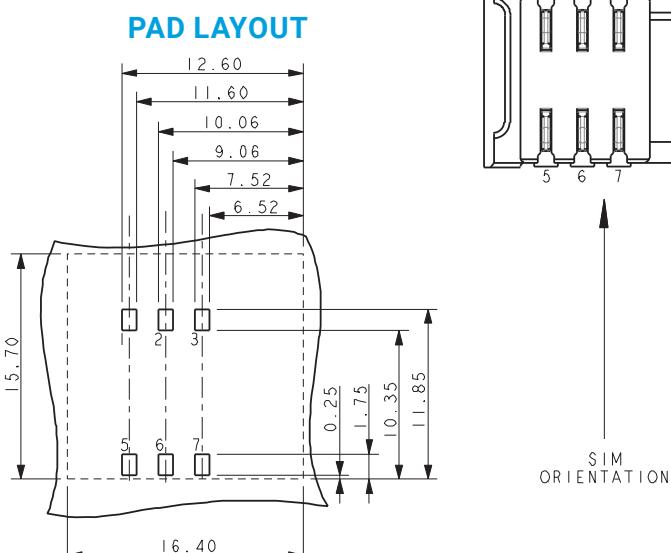
CONTACT FUNCTIONS (ISO78161):

1. SUPPLY VOLTAGE Vcc.
2. RESET
3. CLOCK
4. GROUND
5. PROGRAM VOLTAGE Vpp.
6. I/O



NOTES:

1. SALES DRAWING FOR SLIDE IN SIM READER.
2. FOR PRODUCT SPECIFICATION REFER TO
ELCO SPEC. 201-01-085.
3. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE
STATED.
4. INSULATOR MATERIAL: NYLON GLASS FILLED.
5. CONTACT MATERIAL COPPER ALLOY:
SIM CONTACTS NOSE PLATED WITH GOLD,
SMT PADS PLATED WITH PURE TIN.
6. PACKING DETAILS SEE PAGE 75.

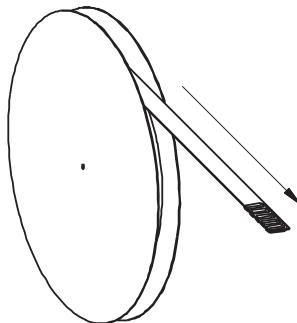


SIM CARD CONNECTORS

Slide-In SIM 9162-200



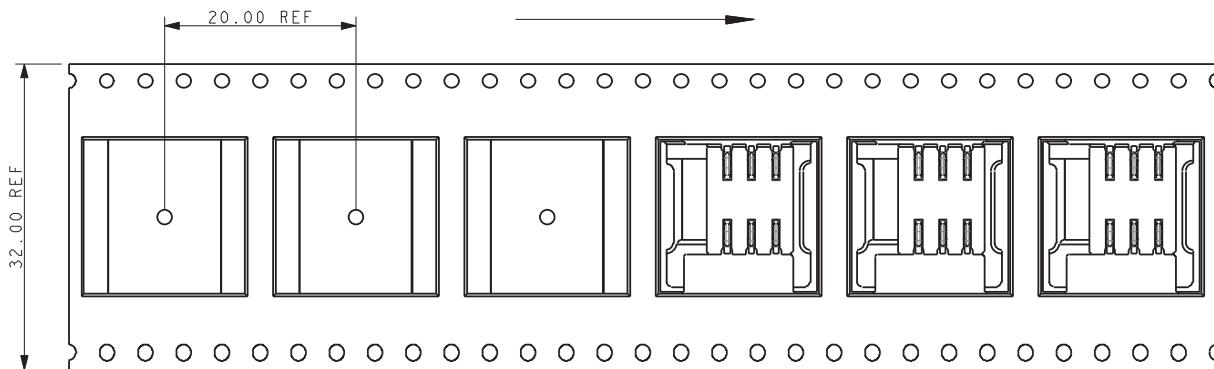
PACKING DETAILS



Reel Size 380mm Dia.

REEL QTY	1100
LEADER	500MM
TRAILER	500MM
REELS/BOX	4
PACK QTY	4400

(SHOWING USER DIRECTION OF FEED)



SIM CARD CONNECTORS

Locking SIM 9162-300



For 9162 Slide-IN & 9162 SIM/microSD

- Accepts GSM Standard 11.11 cards
- Secure locking latch mechanism
- Robust, good resistance against shock and vibration
- SIM Installed Height – 1.50mm
- Polarized to eliminate improper insertion of the card

APPLICATIONS

- Cellular Phones
- Radios

FEATURES AND BENEFITS

- SMT with locking hinged guide
- 2.50mm connector height
- Selective gold on mating surface/tin on solder tails
- Tape and reel packaging

ELECTRICAL

- Current Rating: 0.3 Amp / Contact
- Voltage Rating: 30 VAC

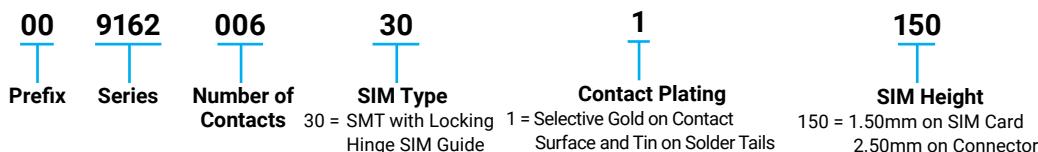
ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

MECHANICAL

- Insulator Material: High Temperature Plastic; UL94 V-0
- Contact Material: Copper Alloy
- Plating: Gold over Nickel
- Durability: 10,000 Cycles

HOW TO ORDER



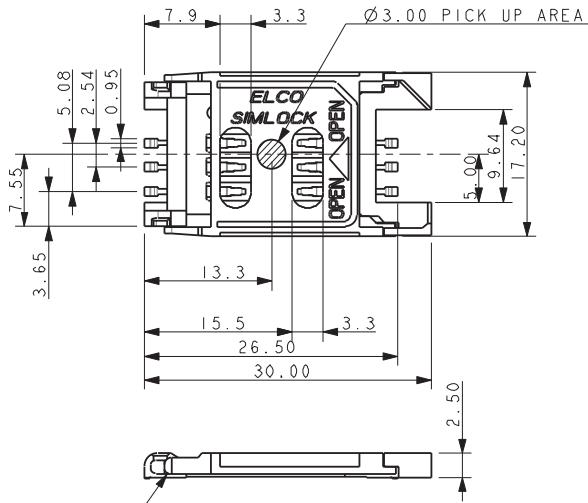
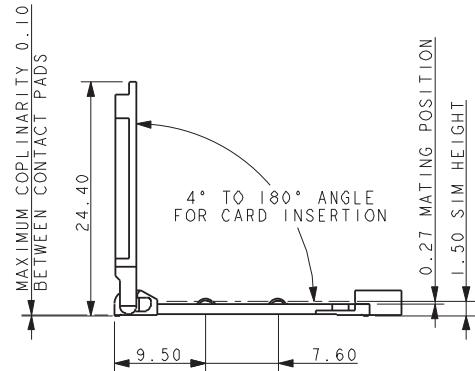
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SIM CARD CONNECTORS

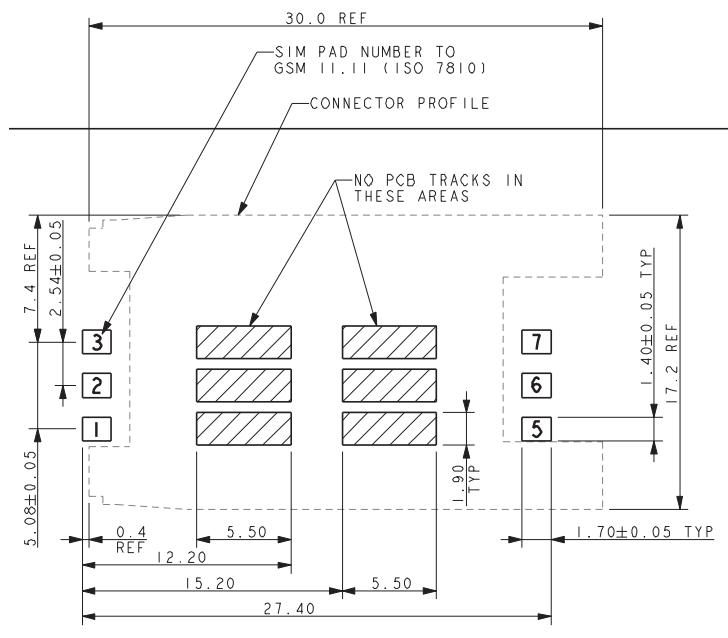
Locking SIM 9162-300



CONNECTOR DETAILS



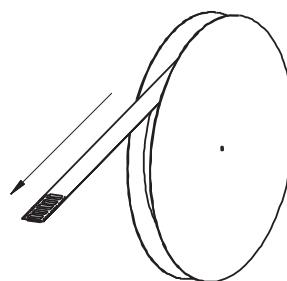
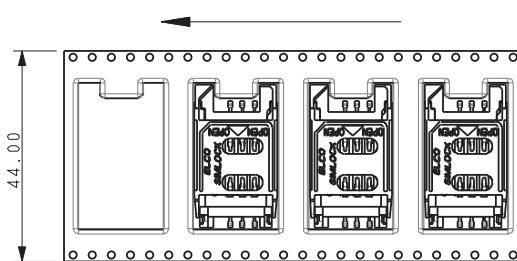
SUGGESTED PCB LAYOUT



NOTES:

1. SALES DRAWING FOR SIMLOCK SIM READER.
2. ALL DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
3. FOR PRODUCT SPECIFICATION REFER TO ELCO SPEC. 201-01-111.
4. PACKING IN TAPE AND REEL, 600 PIECES IN A 330MM REEL.
5. MATERIAL: COVER AND HOUSING: HIGH TEMPERATURE THERMOPLASTIC UL94 V-0, COLOR BLACK. CONTACT: COPPER ALLOY, GOLD PLATING IN CONTACT AREA, TIN PLATING ON SOLDER TAILS, NICKEL UNDERCOAT ON ALL SURFACES.

PACKING DETAILS



CONTACT FUNCTIONS (ISO78161):

1. SSUPPLY VOLTAGE Vcc.
2. RESET
3. CLOCK
4. GROUND
5. PROGRAM VOLTAGE Vpp.
6. I/O

SIM CARD CONNECTORS

Slide-In Low Profile SIM 9162-400



- Six position Slide-In SIM
- Low Profile – 0.70mm to SIM base
- Side bracket to add solder security
- SIM guidance using the side walls

APPLICATIONS

- Cellular Phones
- Radios

FEATURES AND BENEFITS

- SMT Slide-In SIM
- Molded in high temperature LCP
- 0.38µm Gold on contact surface and gold flash on contact tails
- 1.60mm connector height
- Tape & Reel packaging

ELECTRICAL

- Current Rating: 0.3 Amp / Contact
- Voltage Rating: 15 VAC

ENVIRONMENTAL

- Operating Temperature: -55°C to +70°C

MECHANICAL

- Insulator Material: High Temperature Plastic; UL94 V-0
- Contact Material: Copper Alloy
- Plating: Gold over Nickel
- Durability: 10,000 Cycles

HOW TO ORDER

00 9162 006 40
Prefix Series Number of SIM Type
 | | |
 T T T
 | | |
 T T T

1
Contact Plating
1 = 0.38µm Gold on Contact Surface
and Gold Flash on Solder Tails.
Underplated 1.27µm Nickel.

070
SIM Height
070 = 0.70mm on SIM Card
1.60mm on Connector



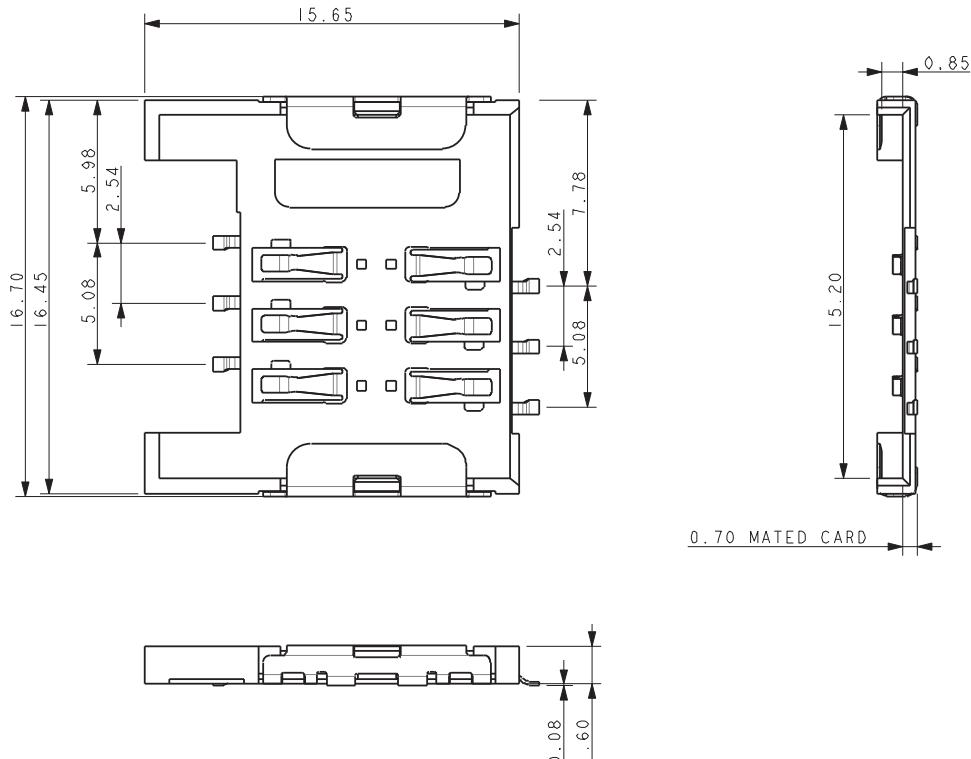
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SIM CARD CONNECTORS

Slide-In Low Profile SIM 9162-400



CONNECTOR DETAILS

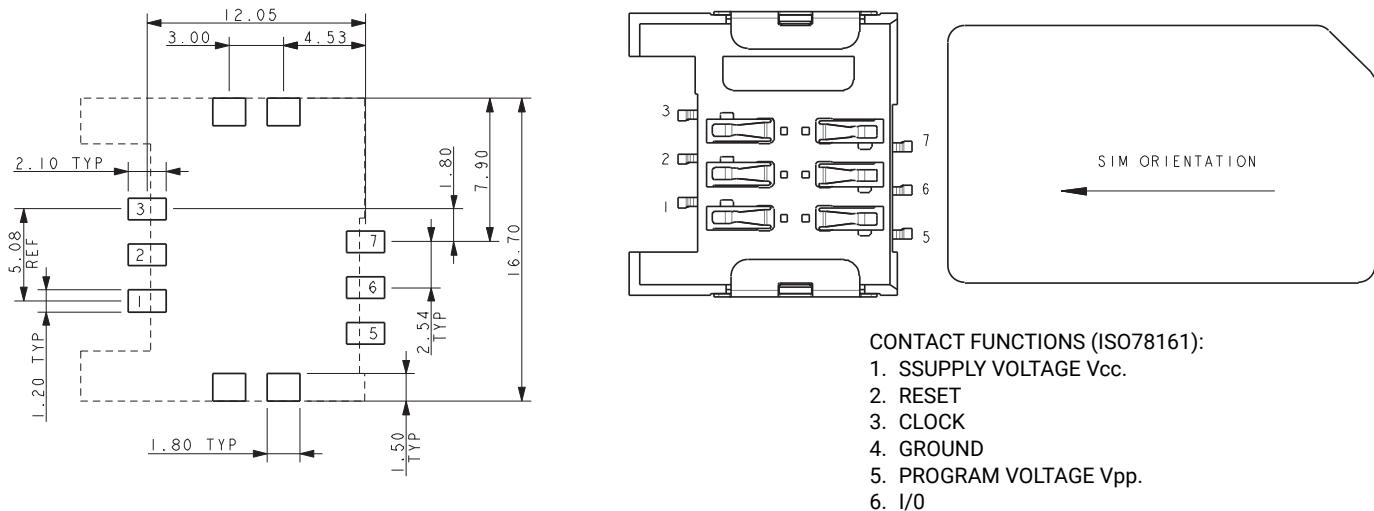


NOTES:

NOTES:

1. DIMENSIONS SHOWN ARE REFERENCED DIMENSIONS.
2. INSULATOR MATERIAL: LCP, UL94 V-0, COLOR BLACK.
3. CONTACT MATERIAL: PHOSPHOR BONZE.
4. CONTACT PLATING: NICKEL ALL OVER, GOLD ON CONTACT, GOLD FLASH ON TAILS.
5. PADS: NICKEL PLATED STAINLESS STEEL, PURE TIN PLATING.
6. COPLANARITY OF PADS 0.10 MAXIMUM.
7. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-112.

SUGGESTED PCB LAYOUT



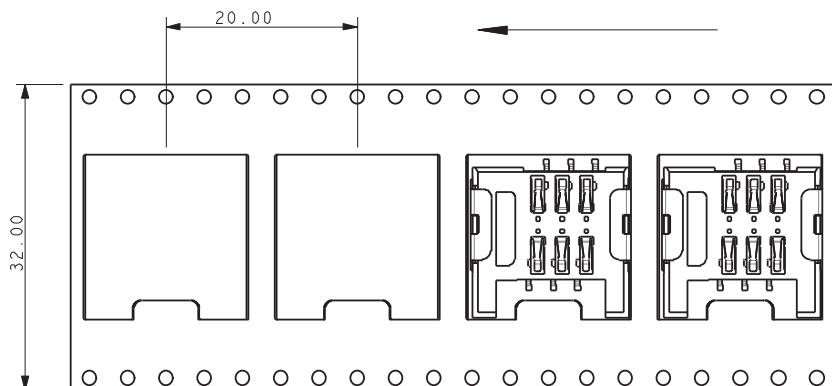
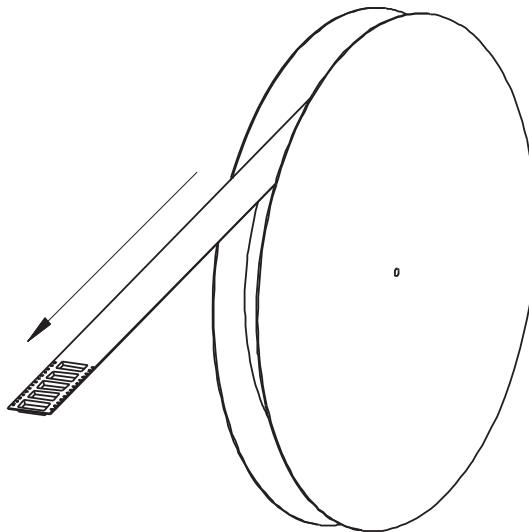
CONTACT FUNCTIONS (ISO7816):

1. SSUPPLY VOLTAGE Vcc.
2. RESET
3. CLOCK
4. GROUND
5. PROGRAM VOLTAGE Vpp.
6. I/O

SIM CARD CONNECTORS

Slide-In Low Profile SIM 9162-400

PACKING DETAILS

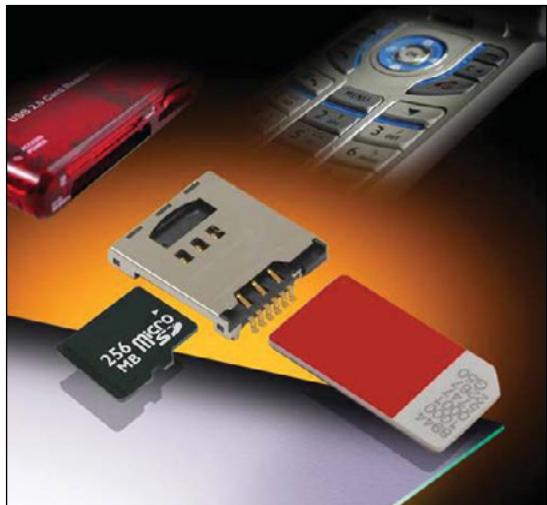


NOTES:

1. TO BE PACKED IN TAPE AND REEL.
2. 1000 PIECES ON A 330MM REEL.
3. COMPONENT DIRECTION AS SHOWN.

SIM CARD CONNECTORS

SIM/Micro SD Combination 9162-500



- Six position slide-in SIM connector & Push-Push microSD connector
- Allows two cards to be inserted into the same connector
- Card detect switch on the microSD

APPLICATIONS

- Cellular Phones
- Radios

FEATURES AND BENEFITS

- Space saving connector combination
- Integrates 2 connectors into 1
- Contact Plating: Gold
- Insulator molded from LCP UL94 V-0
- Low profile 1.50mm to SIM
- 2.70mm connector height

ELECTRICAL

- Current Rating: 0.3 Amp / Contact
- Voltage Rating: 15 VAC

ENVIRONMENTAL

- Operating Temperature:
-55°C to +70°C

MECHANICAL

- Insulator Material: LCP; UL94 V-0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: SIM @10,000 Cycles / SD @ 6000 Cycles

HOW TO ORDER

00 **9162** **006** **50**
Prefix Series Number of Contacts 50 = SMT with SIM and Micro SD Slots at 90°

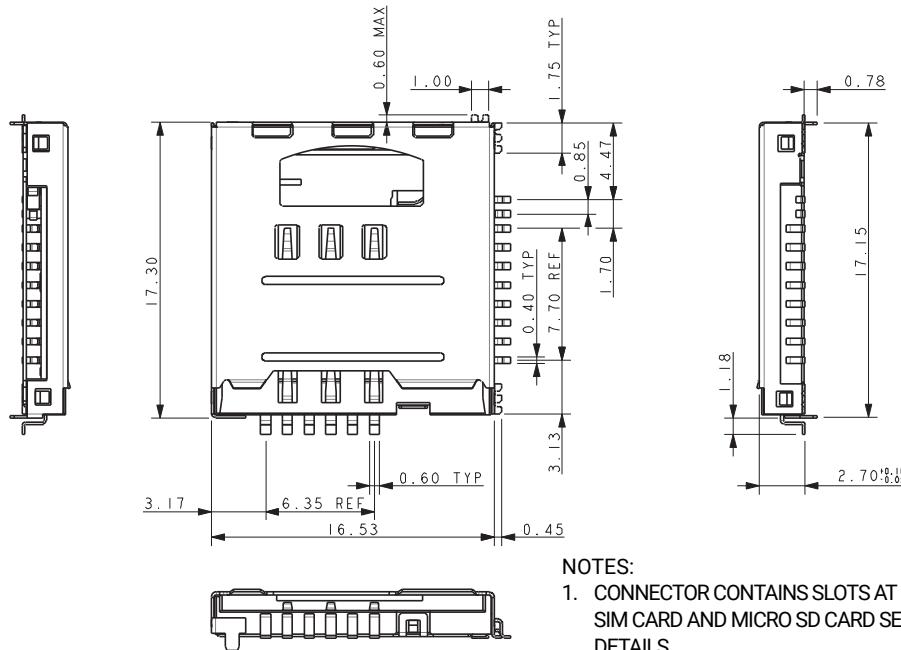
1
Contact Plating
1 = Gold Plating over Nickel

150
SIM Height
150 = 1.50mm on SIM Card
2.70mm on Connector

SIM CARD CONNECTORS

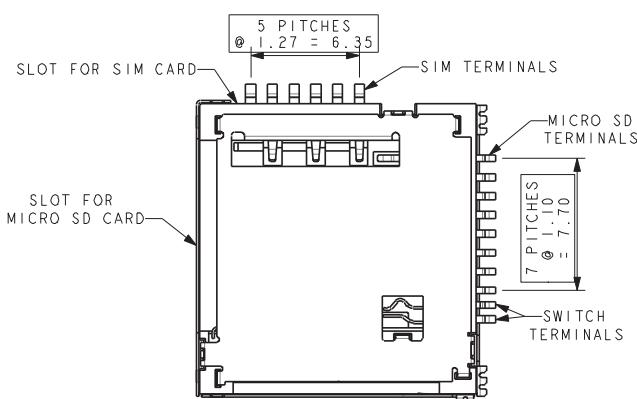
SIM/Micro SD Combination 9162-500

CONNECTOR DETAILS

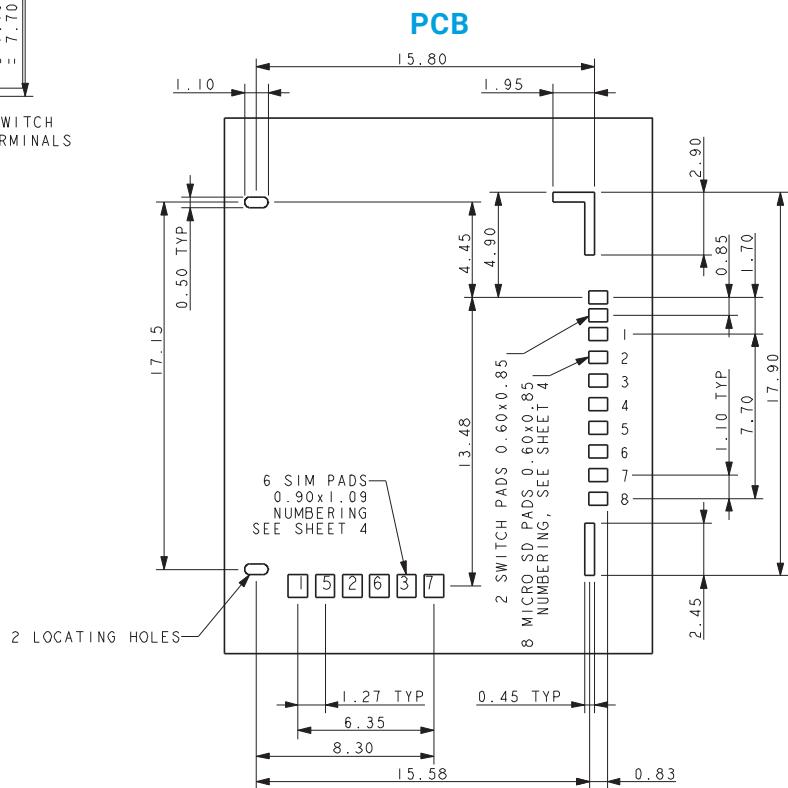
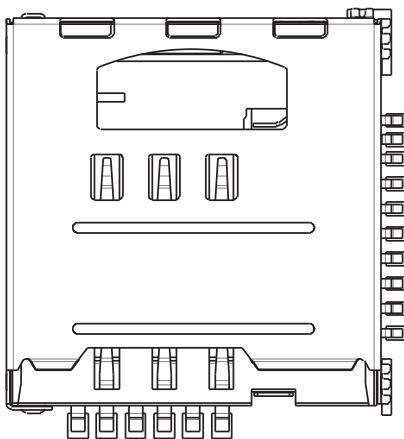


NOTES:

1. CONNECTOR CONTAINS SLOTS AT RIGHT ANGLES FOR A SIM CARD AND MICRO SD CARD SEE PAGE 83 FOR FURTHER DETAILS.
2. 6 WAY SIM CONNECTOR.
3. MICRO SD CONNECTOR HAS SWITCH AND LATCH.
4. DIMENSION SHOWN AS REFERENCE DIMENSIONS.
5. MATERIALS: CONTACTS: GOLD PLATED BERYLLIUM COPPER, INSULATOR: LCP, UL94 V-0, COLOR BLACK. SHELL: NICKEL PLATED STAINLESS STEEL. OTHER PARTS: STAINLESS STEEL.
6. FURTHER DETAILS REFER TO ELCO SPEC 201-01-113.
7. DETAILS FOR PIN FUNCTIONS REFER TO PAGE 83.



CONNECTOR ON PCB

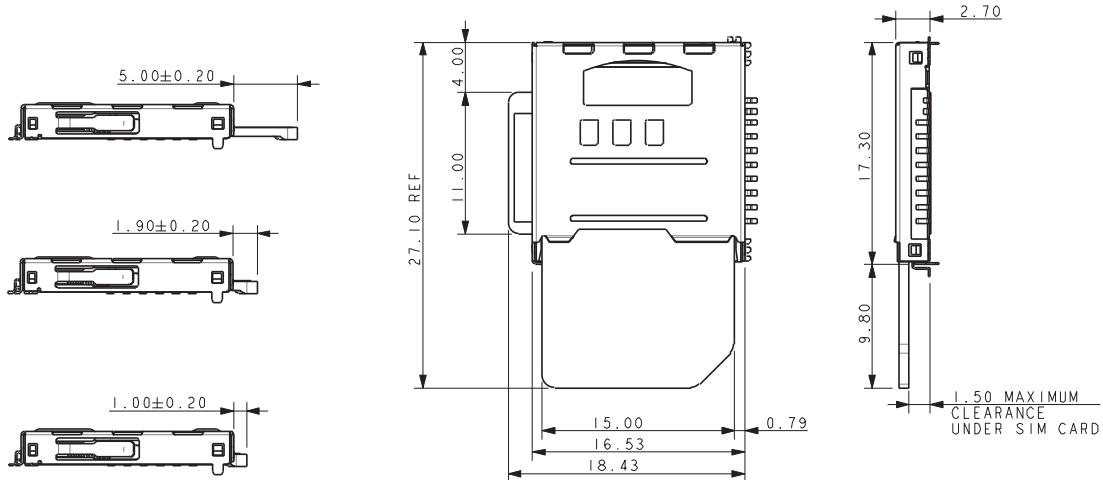


SIM CARD CONNECTORS

SIM/Micro SD Combination 9162-500

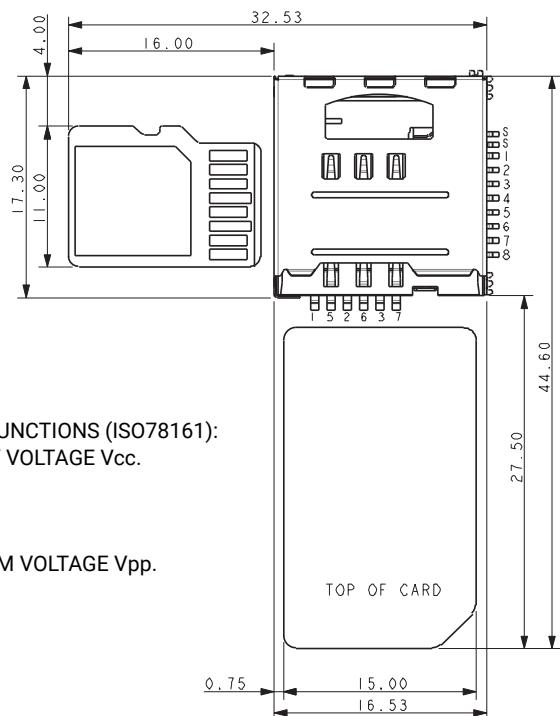


PCB SPACE USED BY CONNECTOR CARDS FULLY INSERTED



CARDS EXTRACTED

SHOWN FOR REFERENCE ONLY



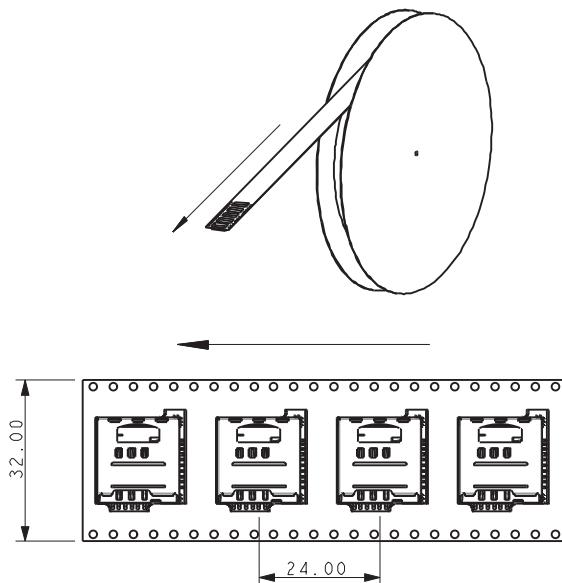
CONTACT FUNCTIONS (ISO78161):

1. SSUPPLY VOLTAGE Vcc.
2. RESET
3. CLOCK
4. GROUND
5. PROGRAM VOLTAGE Vpp.
6. I/O

MICRO SD FUNCTIONS:

- S. SWITCH
- S. SWITCH
1. DAT2
2. CD/DAT3
3. CMD
4. Vdd
5. CLOCK
6. Vss
7. DAT0
8. DAT1

PACKING DETAILS

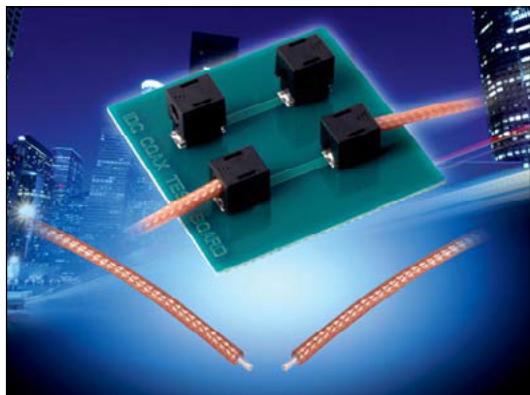


NOTES:

1. PACKING IN TAPE AND REEL, 700 PER REEL.
2. REEL SIZE 330MM DIAMETER.

WTB COAX CONNECTORS

IDC SMT COAX 1 Position 00-9178



KYOCERA AVX has developed a unique 50 Ohm SMT Coax Connector based on our industry proven discrete wire Insulation Displacement Connector (IDC) technology. By combining two different sized IDC contacts, we can reliably pierce the center conductor and outside jacket dielectric materials to make electrical connection to the signal wire and braid (ground connection). Designed specifically for RG178 cable, the concept can be applied to other cable sizes.

The connector comes with a pre-attached cap in tape & reel packaging. The coax cable only needs the outer jacket and braid stripped. The cable is then inserted into the connector and the cap can be pressed down via a small press or hand tool. The biggest advantage of this connector is that it is extremely easy to terminate, no soldering, additional stripping processes or crimp tools are needed. The all plastic design is more cost effective than plated screw machine components while providing a VSWR less than 1.2:1 in excess of 700MHz.

APPLICATIONS

- Reliable & Repeatable termination of RG178 coax cable to a PCB to replace hard solder connections
- Cost effective replacement of standard coax connectors in low frequency applications for RG178 cable
- Standard Microminiature type RF products: GPS, Radio Boards, Meters, RFID and data communications
- Application notes: refer to 201-01-131

FEATURES AND BENEFITS

- "Gas Tight" IDC termination for long term reliability
- Simple strip, insert and press down termination process
- High temperature endurance testing for 1000 hrs at 125°C
- Industrial operating temperature range for harsh environments

ELECTRICAL

- Current Rating: 0.5A
- (Current limit is cable dependent)
- Voltage Rating: 125V
- VSWR less than 1.2:1 in excess of 700MHz

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Nylon 46: UL94 V-0
- Contact Material: Phosphor Bronze, Tin Plated
- Latching Cap: Single Use
- Cable retention: 10N in each axis

HOW TO ORDER

00 9178
Prefix Series

001
Number of Ways

Code	No of Ways	Details
001	1	Page 76

00X
Cable Type

001 = RG178B/U
(M17/93-RG178)

X
Contact Plating

Code	Color	Application
0	Black	Industrial
1	White	Lighting

06
Plating Option

06 = Pure Tin
all over



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

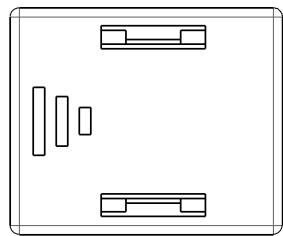
WTB COAX CONNECTORS

IDC SMT COAX 1 Position 00-9178



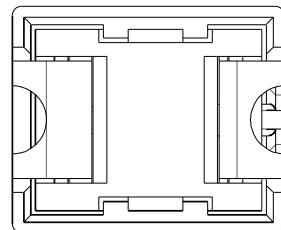
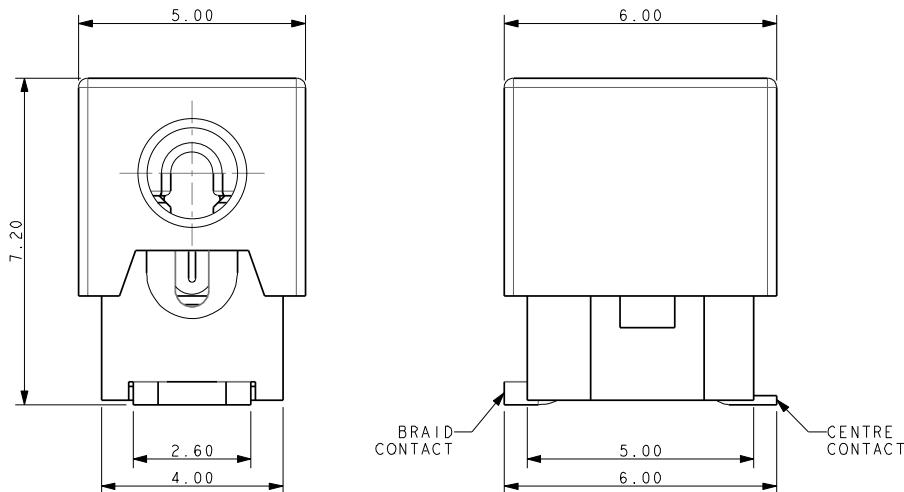
CONNECTOR DETAILS - RG178B/U

CABLE INSERTION DIRECTION
ALSO REFER TO PAGE 77 FOR
PACKING ORIENTATION

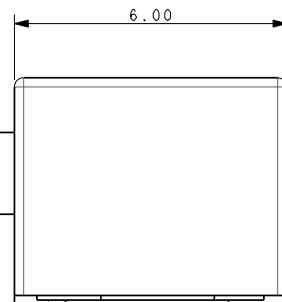
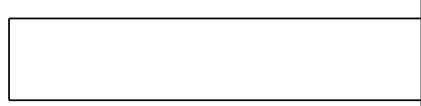
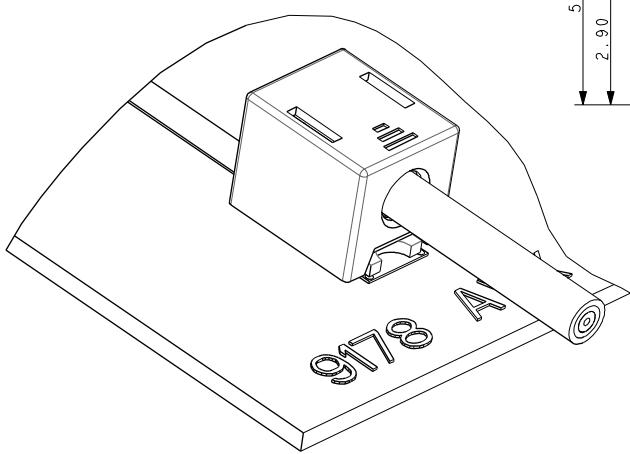
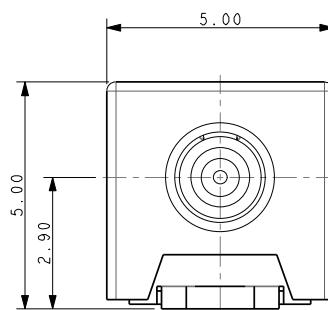
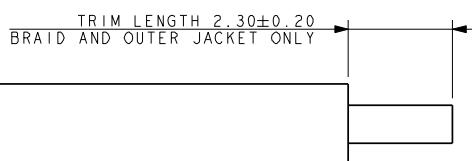


NOTES:

1. CONNECTOR FOR RG178B/U (M17/93-RG178) MIL SPEC COAX CABLE.
FOR OTHER CABLES REFER TO KYOCERA AVX FOR FURTHER INFORMATION.
2. FOR FURTHER DETAILS REFER TO ELCO PRODUCT SPECIFICATION 201-01-130 AND APPLICATION NOTES 201-01-131.
3. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
4. CONNECTOR SUPPLIED AS SHOWN WITH THE CAP IN THE UP POSITION.



WIRED CONNECTOR



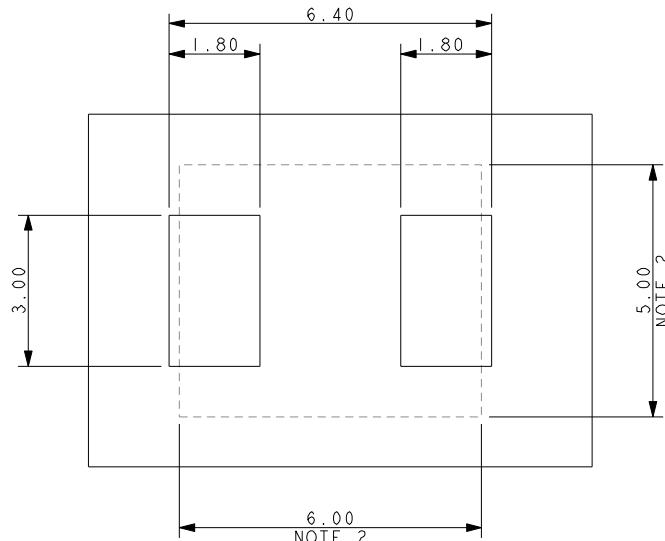
NOTES:

1. CONNECTOR SHOWN IN ASSEMBLED CONDITION, CAP PUSHED DOWN.
2. CAP LOCKS IN LOWER POSITION, TERMINATION CANNOT BE REMADE.
3. FOR FULL DETAILS REFER TO APPLICATION NOTES 201-01-131.
4. CONNECTOR FOR RG178B/U (M17/93-RG178) MIL SPEC COAX CABLE ONLY.
5. ALL LOOSE MATERIAL MUST BE REMOVED FROM TRIMMED CABLE.

WTB COAX CONNECTORS

IDC SMT COAX 1 Position 00-9178

SUGGESTED PCB LAYOUT

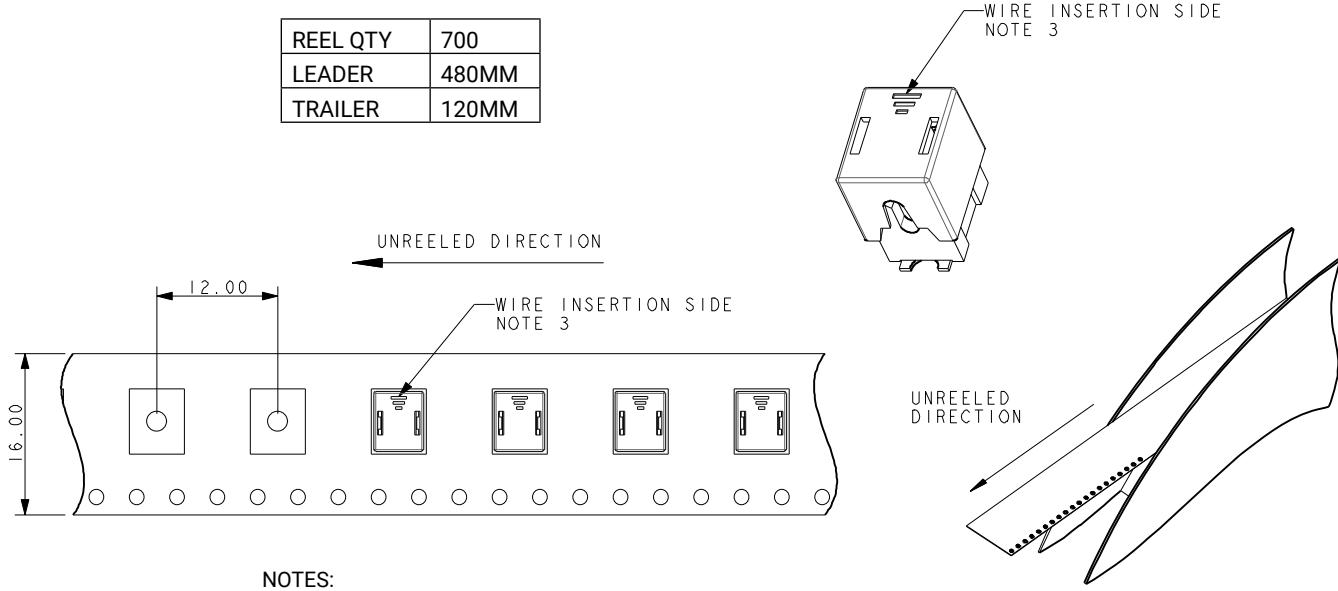


NOTES:

1. PADS SHOWN FOR CONNECTOR FEET ONLY, OTHER DETAILS WILL DEPEND ON THE CUSTOMERS PCB SPECIFICATION AND PERFORMANCE REQUIREMENTS.
2. OUTLINE OF THE CONNECTOR.
3. TYPICAL CIRCUIT CONFIGURATION:
4. BRAID CONNECTED THROUGH BOARD TO GROUND PLANE. CENTER CONDUCTOR TRACK 1.5MM WIDE ON 0.8MM THICK PCB

PACKING DETAILS

REEL QTY	700
LEADER	480MM
TRAILER	120MM



NOTES:

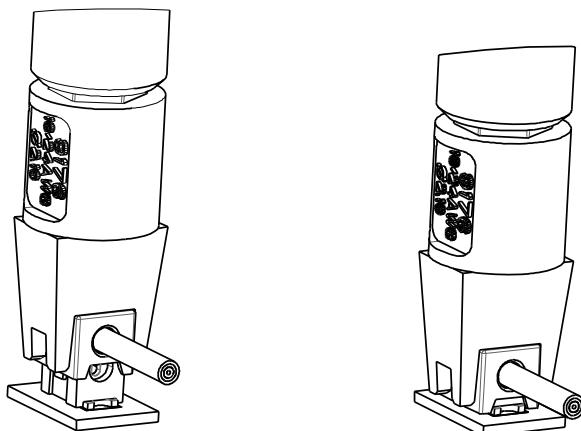
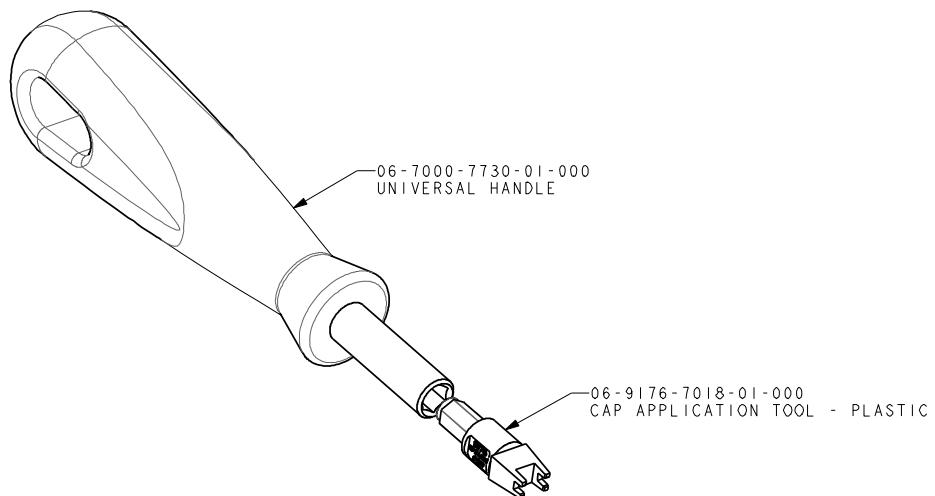
1. PACKING IN TAPE AND REEL.
2. PIECES PER REEL.
3. PARTS TO BE IN THE CORRECT ORIENTATION.

WTB COAX CONNECTORS

IDC SMT COAX 1 Position 00-9178



HAND ASSEMBLY TOOL



NOTES:

1. USE 9176 CAP APPLICATION TOOL
06-9176-7018-01-000.
2. DETAILS OF ASSEMBLY
PROCEDURE REFER TO
APPLICATION NOTES 201-01-131.



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