# Ultra-Low Profile 2.5mm Pitch Battery-9155-100

## **General Description**





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**

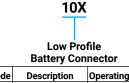
· Operating Temperature: -40°C to +125°C

## **MECHANICAL**

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

## **HOW TO ORDER**





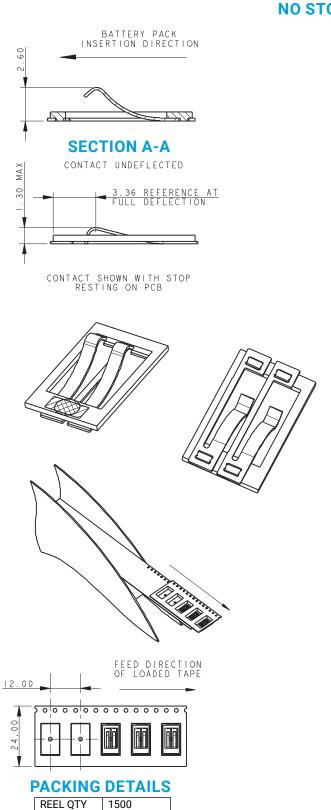
Dattery Connector			
Code	Description	Operating Height	
100	Low Profile Battery Connector No Stop	1.30 (0.051)	
101	Low Profile Battery Connector Stop	1.30 (0.051)	

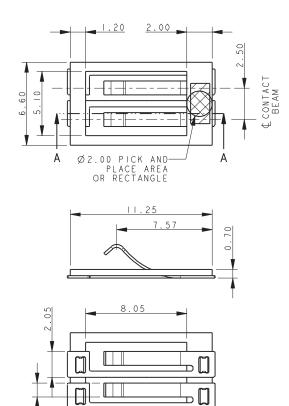


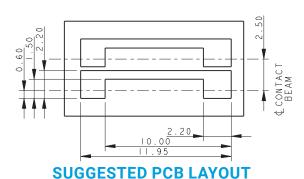




# **2 WAY LOW PROFILE CONNECTOR NO STOP**







## NOTES:

- 1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
- 2. MATERIALS: CONTACT COPPER ALLOY,
- 3. INSULATOR GLASS FILLED NYLON. COLOR: BLACK.
- 4. TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. PACKING DETAILS SEE TABLE.
- 6. FOR MATING PAD DETAILS REFER TO PAGE 105.

500MM

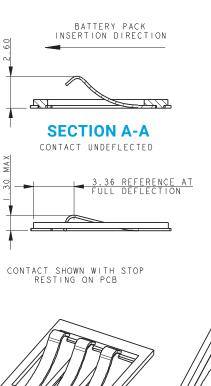
500MM

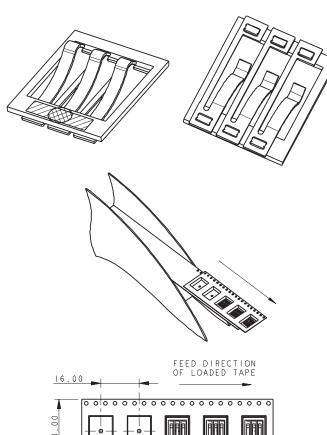
LEADER

**TRAILER** 



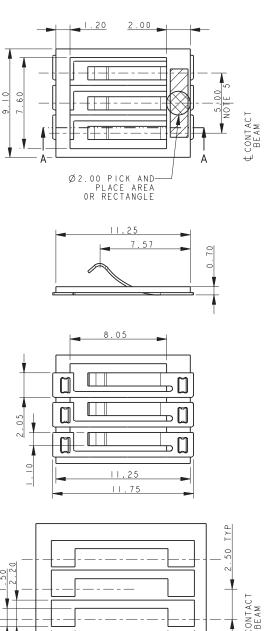
# **3 WAY LOW PROFILE CONNECTOR NO STOP**





## **PACKING DETAILS**

REEL QTY	1200
LEADER	500MM
TRAILER	500MM

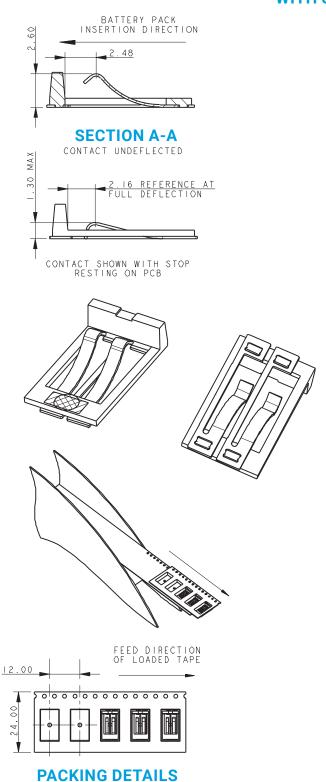


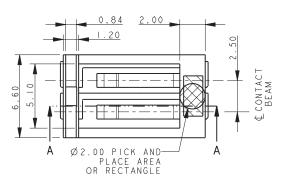
## SUGGESTED PCB LAYOUT

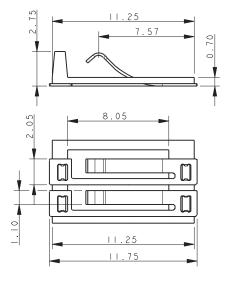
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
- 2. MATERIALS: CONTACT COPPER ALLOY, INSULATOR - GLASS FILLED NYLON. COLOR: BLACK.
- 3. TOLERANCE ±0.20 UNLESS SPECIFIED.
- 4. PACKING DETAILS SEE TABLE.
- 5. 2 EQUAL PITCHES @ 2.50 = 5.00.
- 6. FOR MATING PAD DETAILS REFER TO PAGE 105.

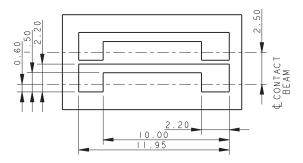


# 2 WAY LOW PROFILE CONNECTOR **WITH STOP**





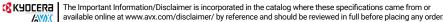




## **SUGGESTED PCB LAYOUT**

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500MM

500MM

REEL QTY | 1500

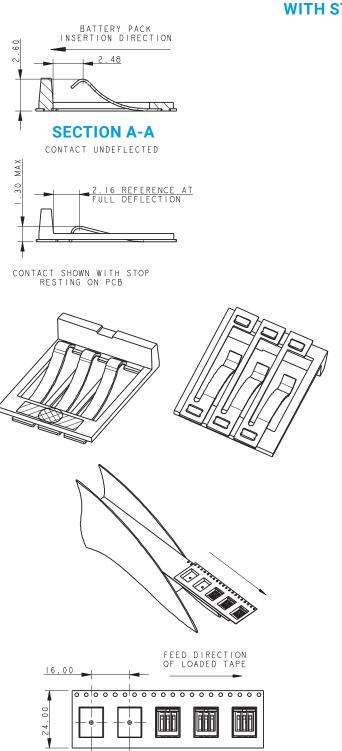
LEADER

**TRAILER** 

# Ultra-Low Profile 2.5mm Pitch Battery-9155-100

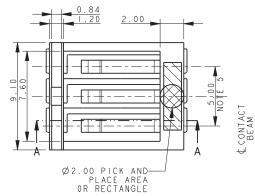


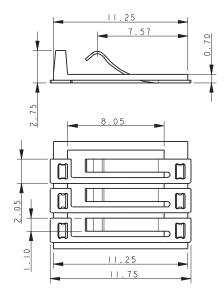
# 3 WAY LOW PROFILE CONNECTOR WITH STOP

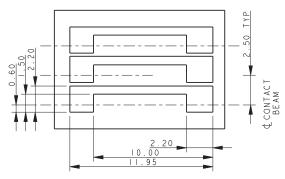


## **PACKING DETAILS**

REEL QTY	1200
LEADER	500MM
TRAIL FR	500MM







## SUGGESTED PCB LAYOUT

### NOTES:

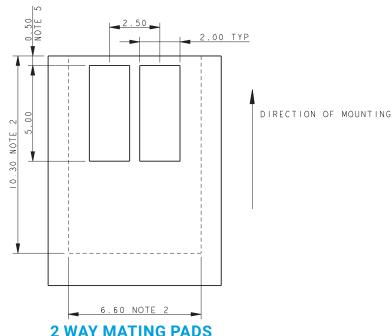
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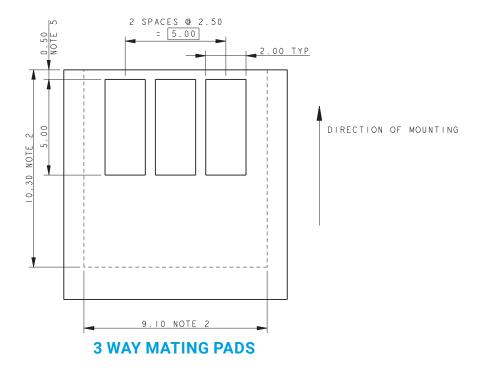
# **Low Profile Mating Pads**



# **LOW PROFILE MATING PADS**







## NOTES:

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