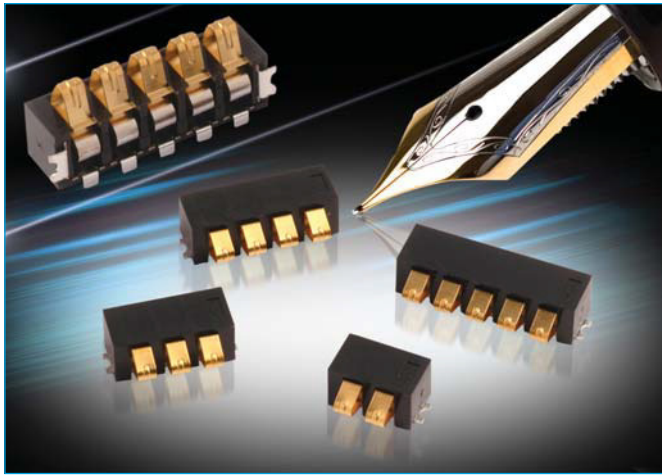


# BATTERY CONNECTORS

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

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

<b>541</b>				
Right Angle Battery Connector				
<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>541</td> <td>Right Angle 2.5mm Battery Connector</td> </tr> </tbody> </table>	Code	Description	541	Right Angle 2.5mm Battery Connector
Code	Description			
541	Right Angle 2.5mm Battery Connector			

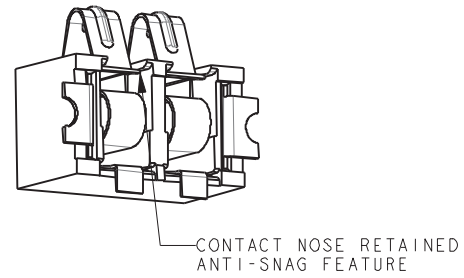
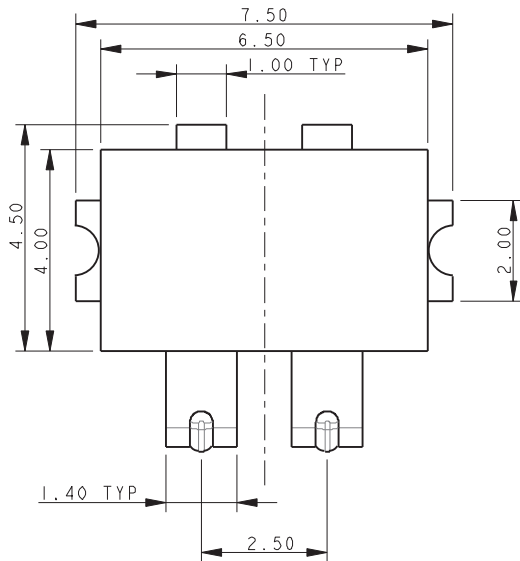
<b>00X</b>						
Plating Option						
<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>006</td> <td>0.4µm Selective Gold, Standard</td> </tr> <tr> <td>008</td> <td>0.8µm Selective Gold, Special Order</td> </tr> </tbody> </table>	Code	Description	006	0.4µm Selective Gold, Standard	008	0.8µm Selective Gold, Special Order
Code	Description					
006	0.4µm Selective Gold, Standard					
008	0.8µm Selective Gold, Special Order					



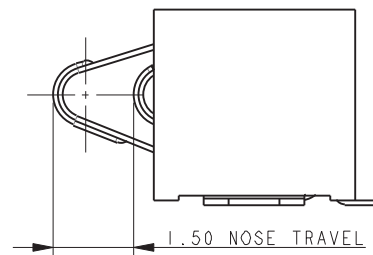
# BATTERY CONNECTORS

## Right Angle 2.5mm Pitch 9155-500 .

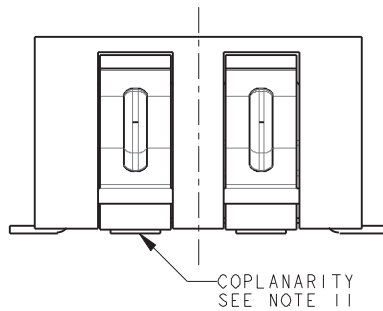
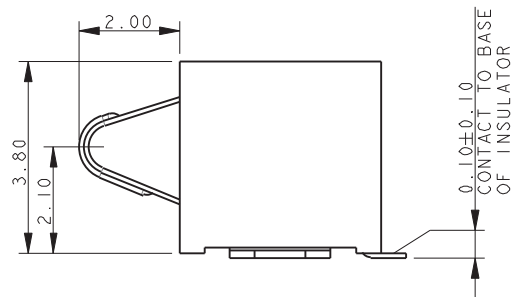
### 2 WAY RIGHT ANGLE BATTERY CONNECTOR



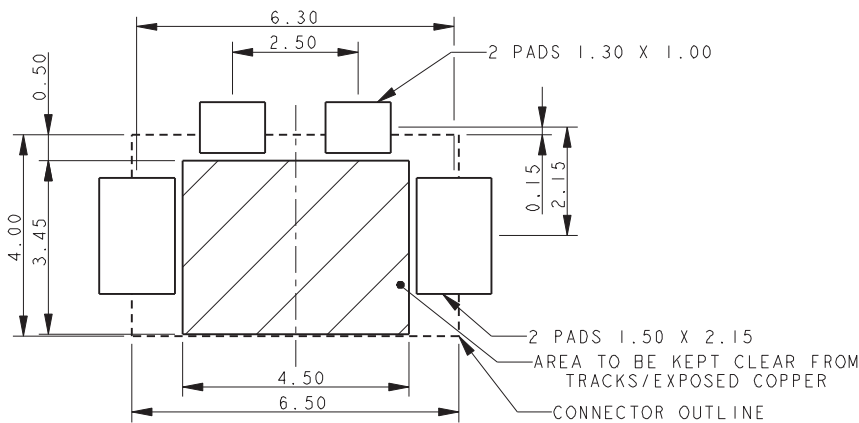
### DEFLECTIVE CONNECTOR



### UNDEFLECTED CONTACT



### SUGGESTED PCB LAYOUT



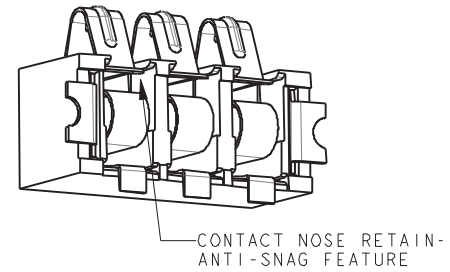
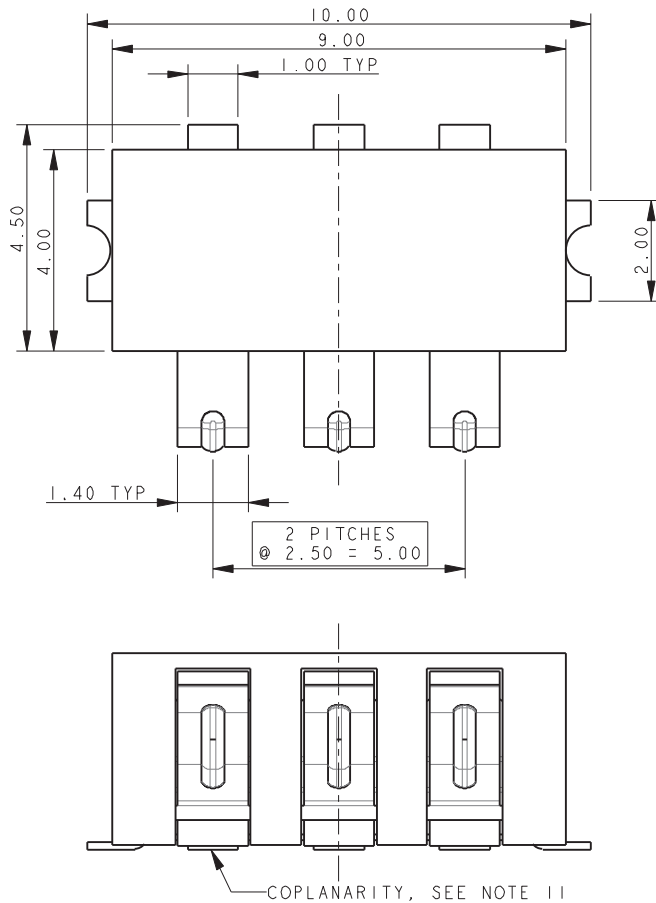
#### NOTES:

1. GENERAL TOLERANCE  $\pm 0.20$  UNLESS OTHERWISE STATED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-114.
3. FOR MATING PAD DETAILS REFER TO PAGE 36.
4. PACKING DETAILS ON PAGE 35.
5. INSULATOR MATERIAL: 30% 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: PHOSPHOR BRONZE.
9. BRACKET PLATING: PURE TIN OVER NICKEL.
10. NOMINAL CONTACT FORCE 140 GRAMS AT 1.50 DEFLECTION.
11. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.10MM MAXIMUM.

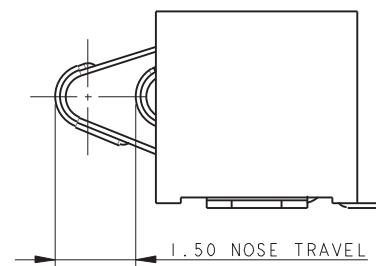
# BATTERY CONNECTORS

## Right Angle 2.5mm Pitch 9155-500 .

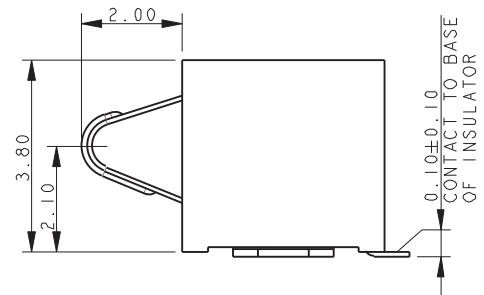
### 3 WAY RIGHT ANGLE BATTERY CONNECTOR



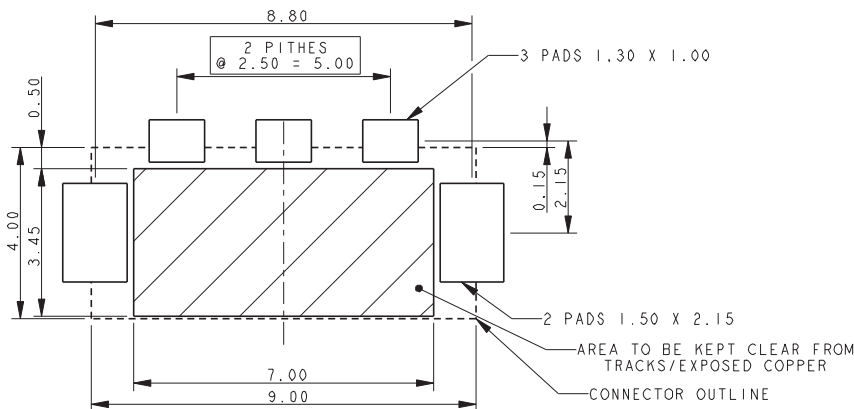
### DEFLECTIVE CONNECTOR



### UNDEFLECTED CONTACT



### SUGGESTED PCB LAYOUT



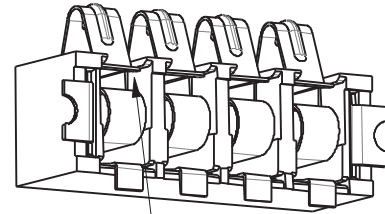
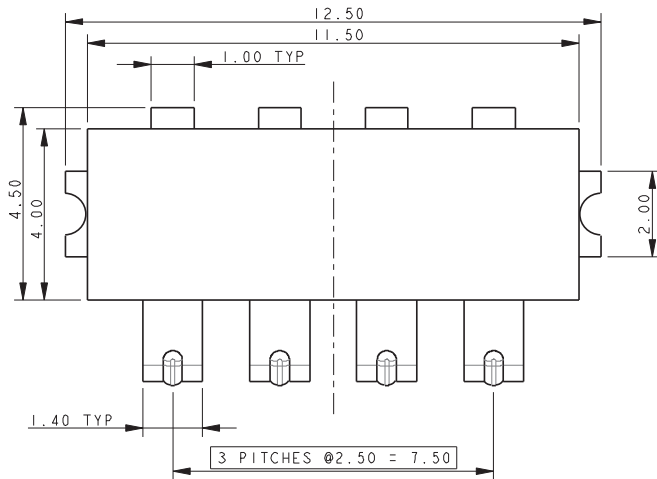
#### NOTES:

1. GENERAL TOLERANCE  $\pm 0.20$  UNLESS OTHERWISE STATED.
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3. FOR MATING PAD DETAILS REFER TO PAGE 36.
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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

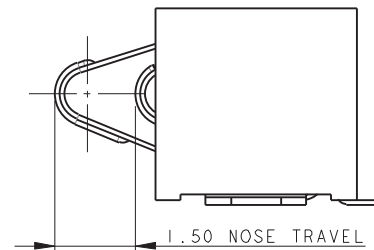
## Right Angle 2.5mm Pitch 9155-500 .

### 4 WAY RIGHT ANGLE BATTERY CONNECTOR

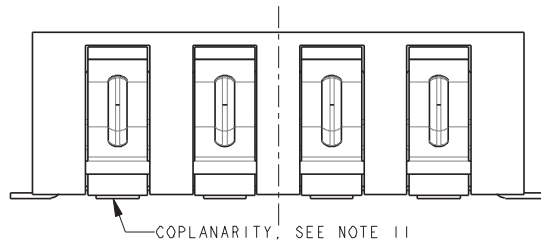
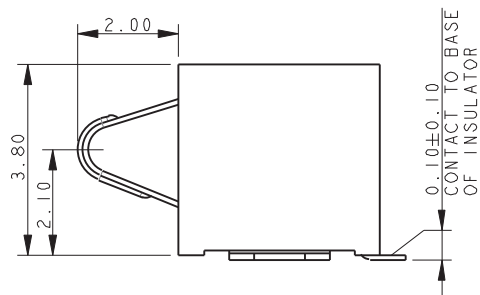


CONTACT NOSE RETAINED ANTI-SNAG FEATURE

### DEFLECTIVE CONNECTOR

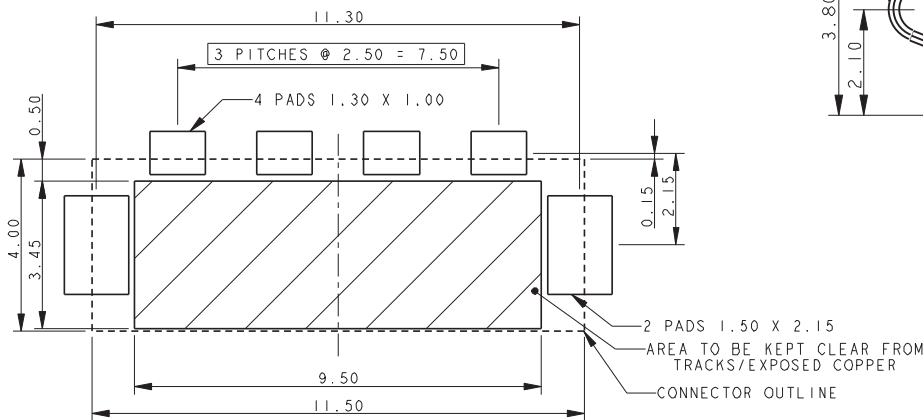


### UNDEFLECTED CONTACT



COPLANARITY, SEE NOTE 11

### SUGGESTED PCB LAYOUT



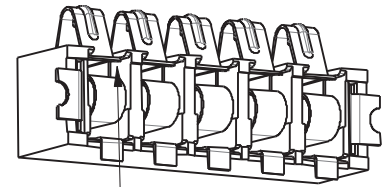
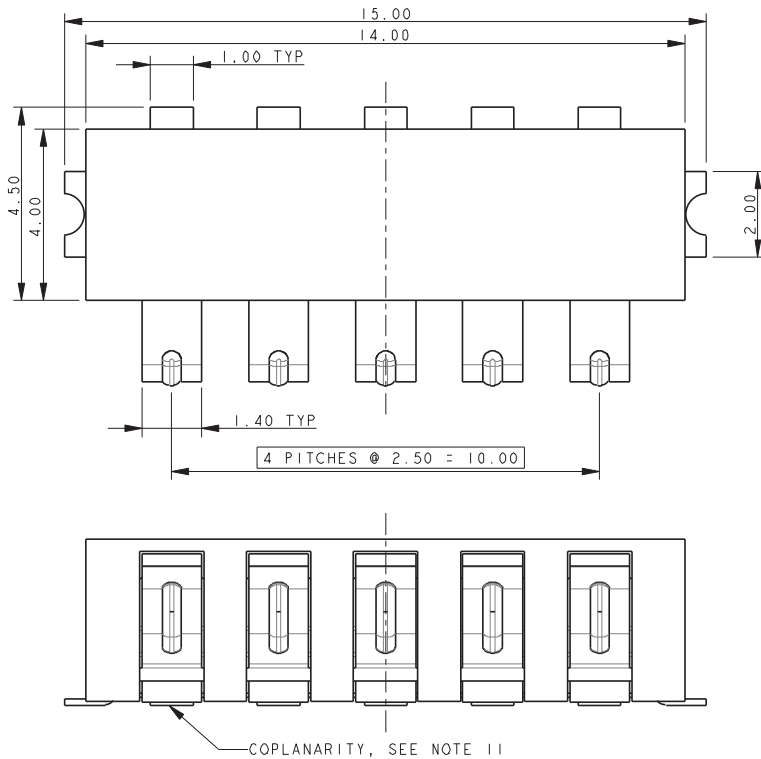
#### NOTES:

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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

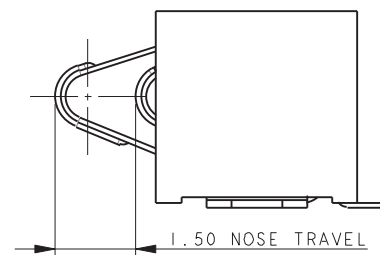
## Right Angle 2.5mm Pitch 9155-500 .

### 5 WAY RIGHT ANGLE BATTERY CONNECTOR

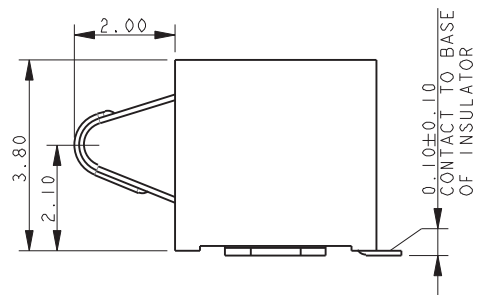


CONTACT NOSE RETAINED  
ANTI-SNAG FEATURE

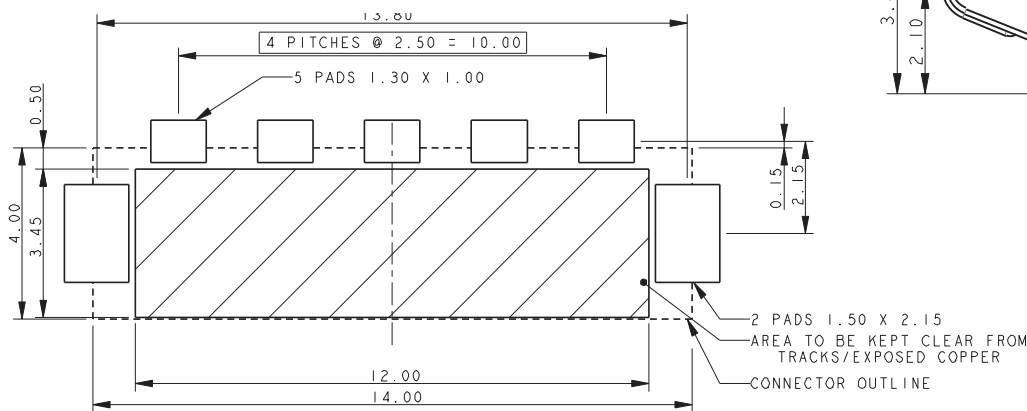
### DEFLECTIVE CONNECTOR



### UNDEFLECTED CONTACT



### SUGGESTED PCB LAYOUT



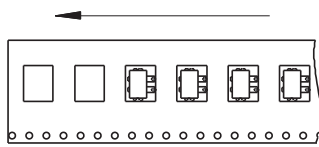
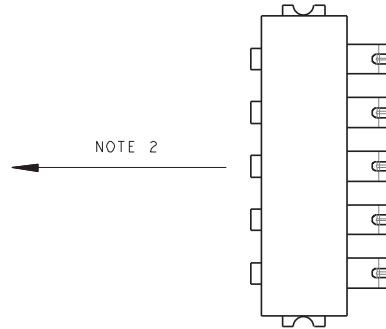
#### NOTES:

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3. FOR MATING PAD DETAILS REFER TO PAGE 36.
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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

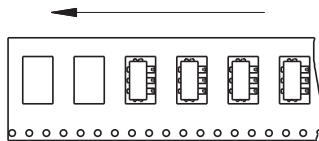
Right Angle 2.5mm Pitch 9155-500 .

## PACKING DETAILS



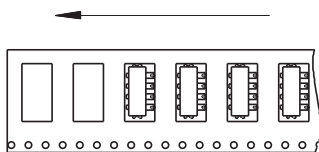
### 2 WAY

REEL QTY	1000
TAPE WIDTH	25MM
POCKET PITCH	12MM



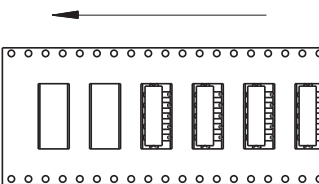
### 3 WAY

REEL QTY	1000
TAPE WIDTH	25MM
POCKET PITCH	12MM



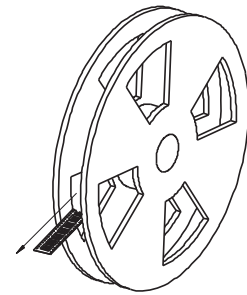
### 4 WAY

REEL QTY	1000
TAPE WIDTH	25MM
POCKET PITCH	12MM



### 5 WAY

REEL QTY	1000
TAPE WIDTH	25MM
POCKET PITCH	12MM



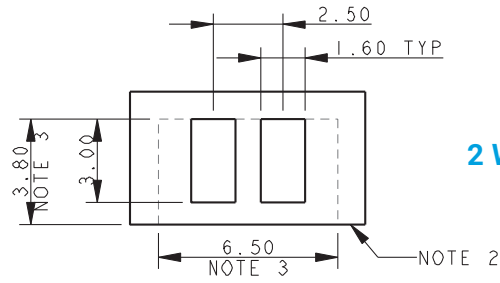
#### NOTES:

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

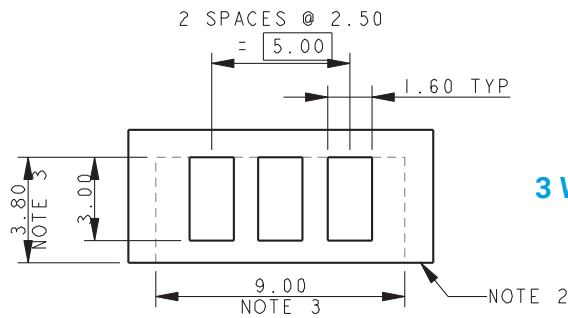
# BATTERY CONNECTORS

## Right Angle 2.5mm Pitch 9155-500 .

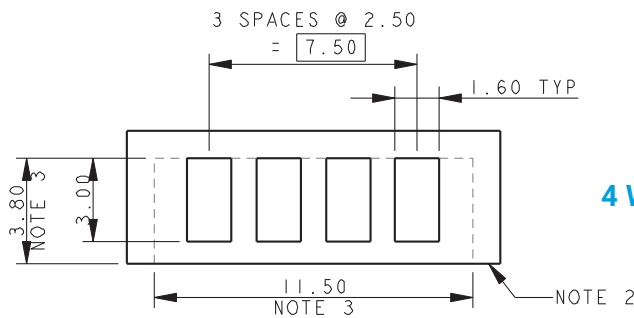
### STANDARD RIGHT ANGLE – MATING PADS



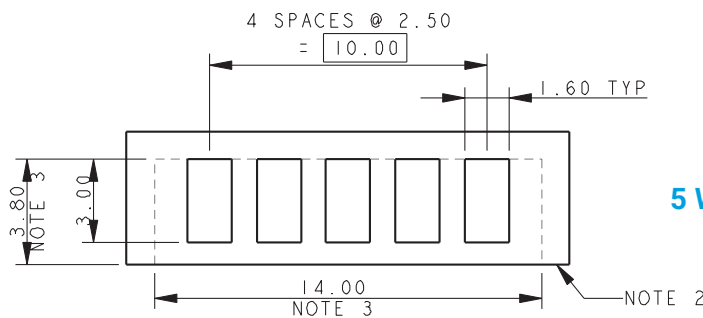
2 WAY MATING PADS



3 WAY MATING PADS



4 WAY MATING PADS



5 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.