

# SSL - Top Load Socket



## Series 9159



The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. The top loading socket allows complete PCB's to be replaced in the field without having to disassemble the entire strip of boards. The connector has a two part insulator whereby the top of the connector will slide open allowing the plug connector to be pulled out either vertically or at a slight angle. Once the PCB is replaced, the cover is slid back like a Zero Insertion Force (ZIF) connector to the closed position. The PCB layout is identical to the standard horizontal socket to maintain family commonality at the PCB level.

Additional components in the 9159 product family include:

- SSL - Horizontal Plug; Standard 2-Piece solution (10-9159)
- SSL - Cabled Plug; Supports wire-to-board applications (11-9159)
- SSL - Horizontal Socket; Standard 2-Piece solution (20-9159)
- SSL - Shorting Socket; Two position (58-9159)
- SSL - Retaining Clip; Latches BTB connectors together (80-9159)

### APPLICATIONS

- Coplanar PCB mating in SSL products
- LED linear lighting strips
- Application Notes; refer to 201-01-123

### FEATURES AND BENEFITS

- Slide open top; allows field reparability at the light fixture level
- Mates with standard horizontal or cabled plug; no need to change any connectors
- 5 Amp current rating; exceeds general market needs
- Gold plated BeCu spring contacts; reliability for harsh environments
- Available in white; supports SSL market preferences

### ELECTRICAL

- Current Rating: 5 Amps / Contact
- Voltage Rating: 125 VAC

### ENVIRONMENTAL

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

### MECHANICAL

- Insulator Material: Nylon: VL94VO
- Contact Material: BeCu / Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

### HOW TO ORDER

22

Prefix

Socket Top Loading

9159

Series

XXX

Number of Ways

| Code | No of Ways | Details |
|------|------------|---------|
| 002  | 2          | Page 25 |
| 003  | 3          | Page 26 |
| 004  | 4          | Page 27 |
| 005  | 5          | Page 28 |
| 006  | 6          | Page 29 |

1

2 Part PCB Strip Connector

01

Connector Pitch

01 = 3mm

X

Color Options

| Code | Color | Application |
|------|-------|-------------|
| 0    | Black | Industrial  |
| 1    | White | Lighting    |

16

Plating Option

| Code | Contact                                    | Bracket      |
|------|--------------------------------------------|--------------|
| 16   | Gold in Contact Area<br>Tin on Solder Tail | Tin all over |

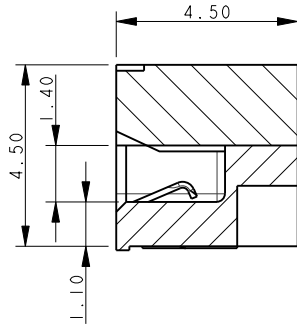
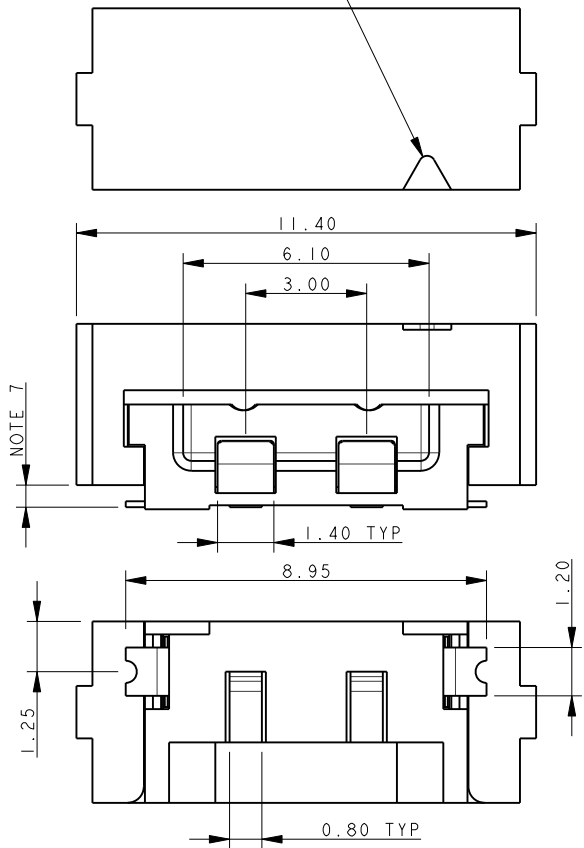
# SSL - Top Load Socket

Series 9159



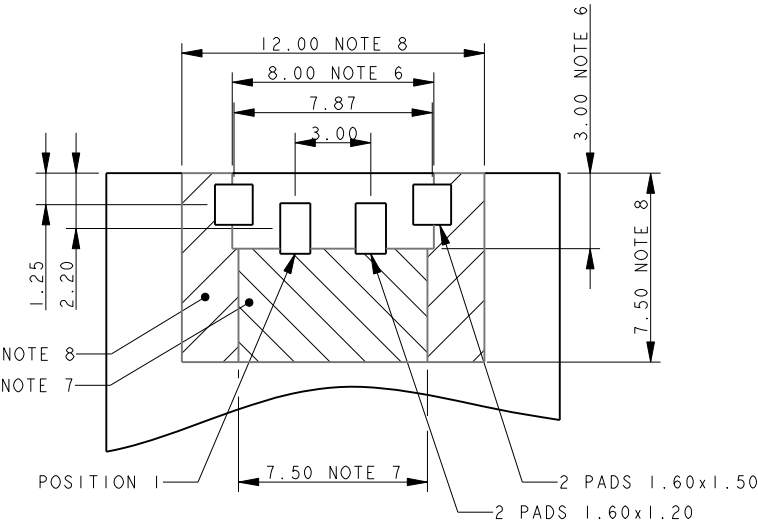
## SOCKET TOP LOADING 2 WAY 2 PART PCB STRIP CONNECTOR

MARKER IN LINE WITH POSITION 1

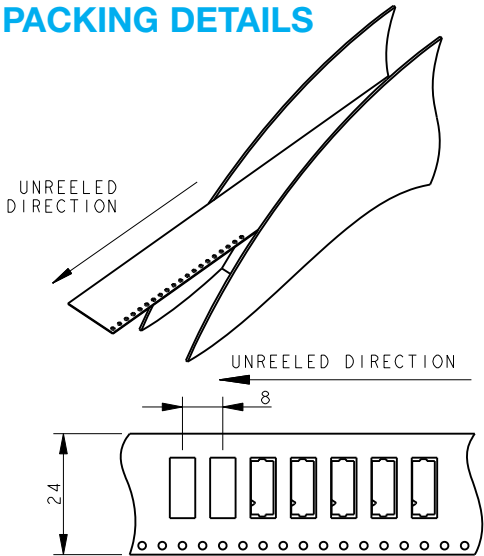


- NOTES:
1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
  2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
  3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 24.
  4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
  5. BRACKETS: COPPER ALLOY, TIN PLATED.
  6. OUTLINE OF CONNECTOR.
  7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
  8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
  9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

## 2 WAY PCB BOARD LAYOUT



## PACKING DETAILS

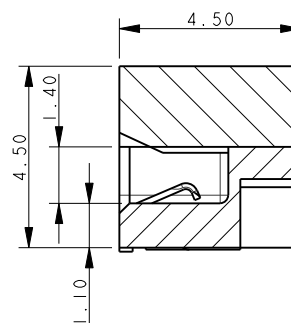
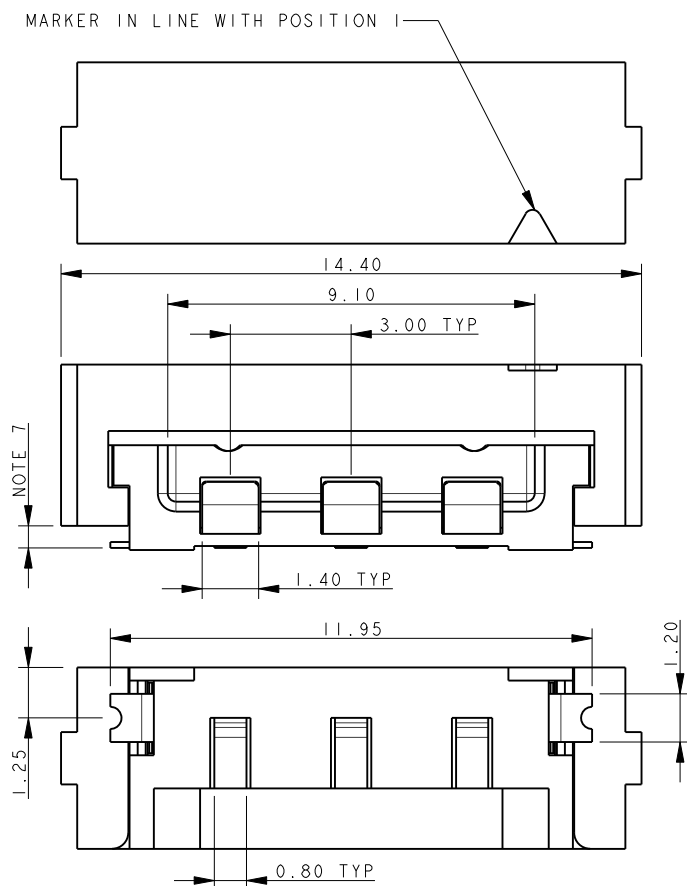


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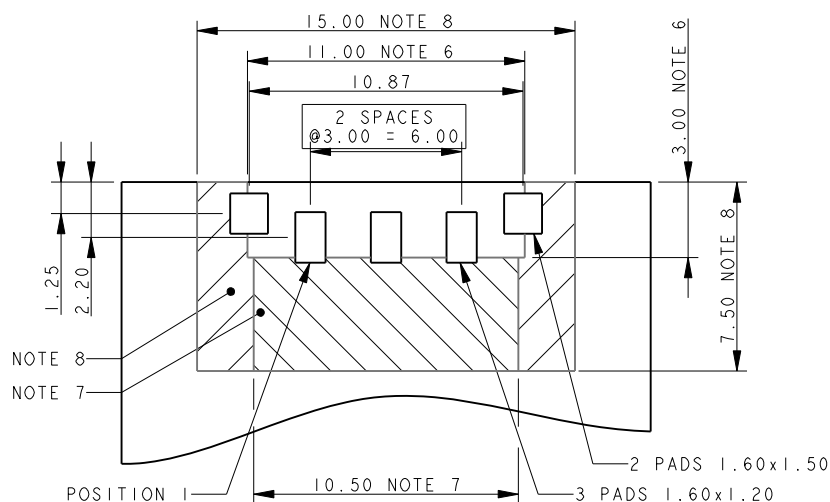
## SOCKET TOP LOADING 3 WAY 2 PART PCB STRIP CONNECTOR



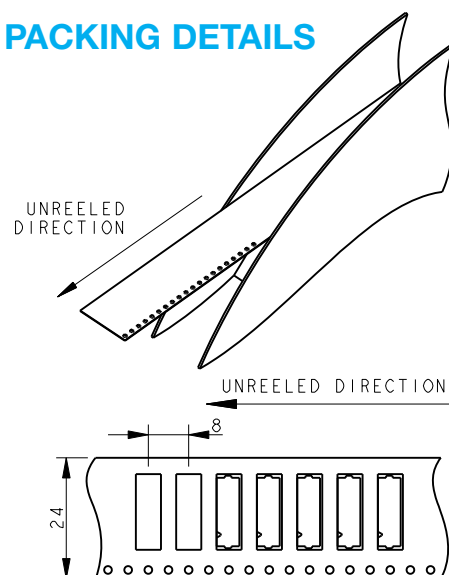
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6. OUTLINE OF CONNECTOR.
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8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

## 3 WAY PCB BOARD LAYOUT



## PACKING DETAILS

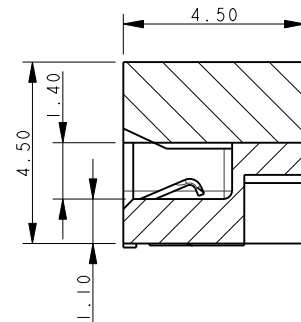
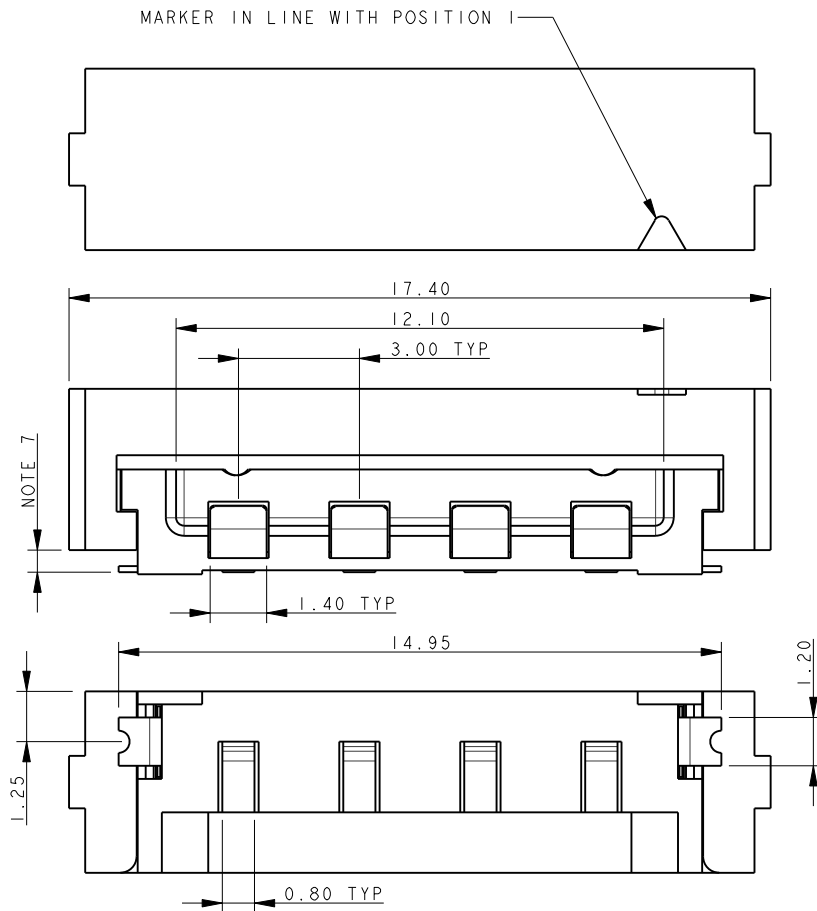


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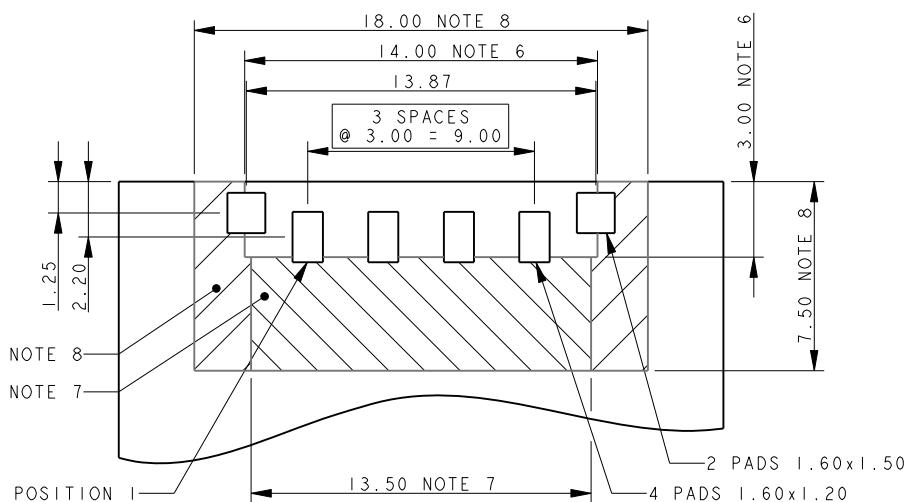
## SOCKET TOP LOADING 4 WAY 2 PART PCB STRIP CONNECTOR



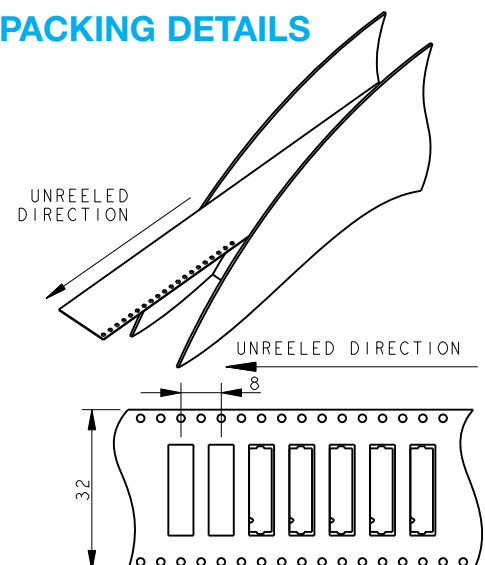
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8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
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## 4 WAY PCB BOARD LAYOUT



## PACKING DETAILS

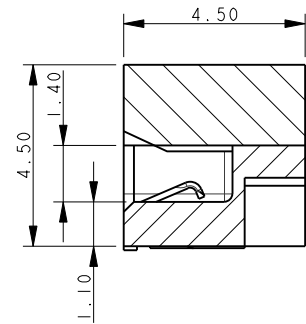
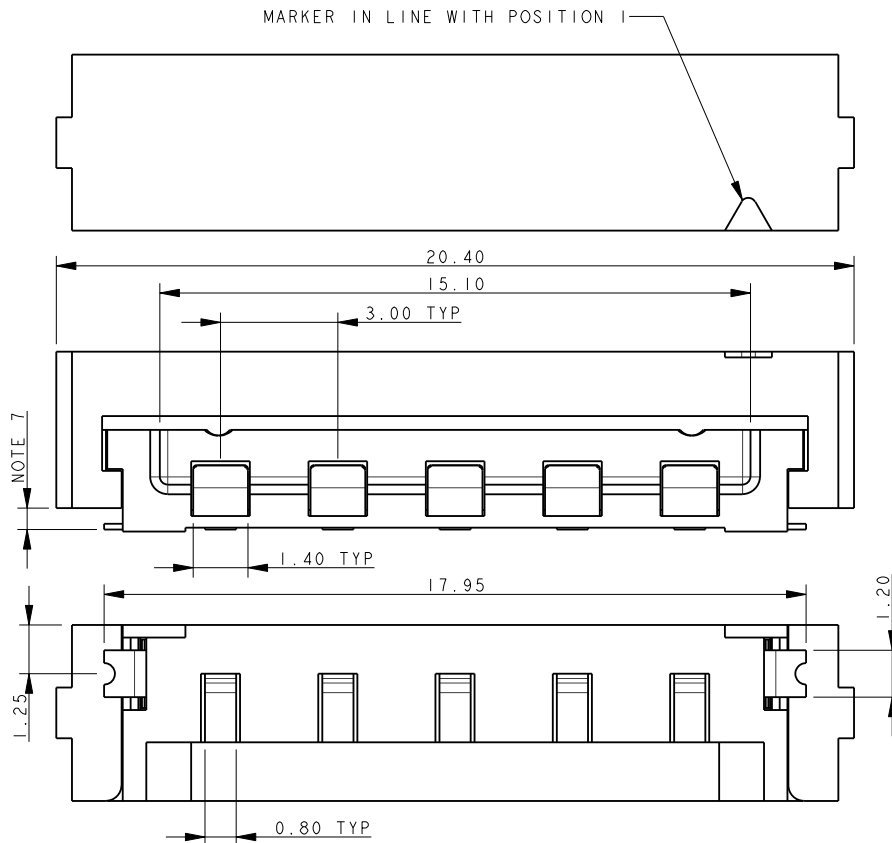


# SSL - Top Load Socket

Series 9159



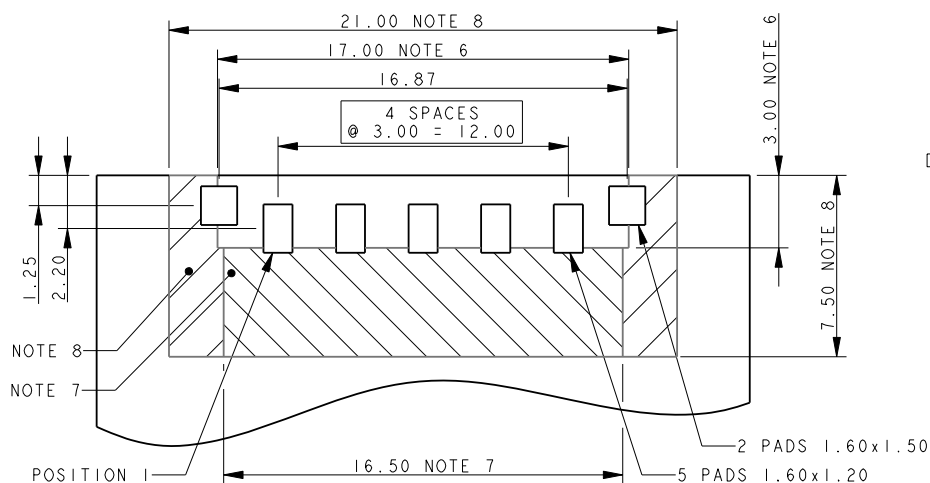
## SOCKET TOP LOADING 5 WAY 2 PART PCB STRIP CONNECTOR



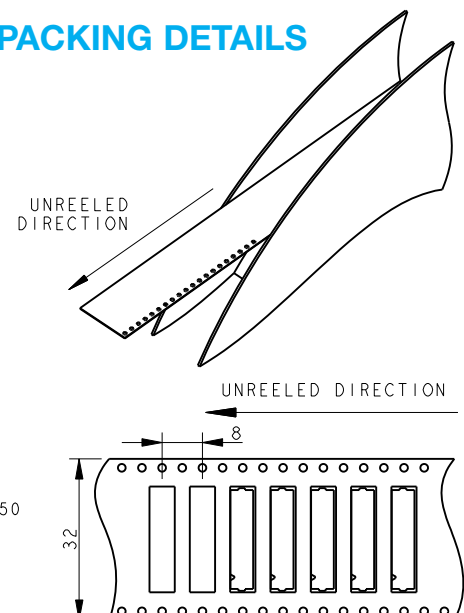
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8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
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## 5 WAY PCB BOARD LAYOUT



## PACKING DETAILS

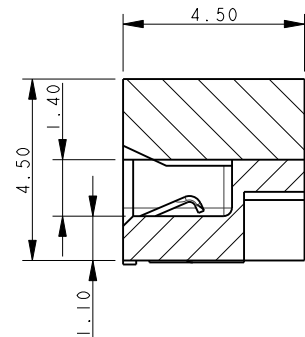
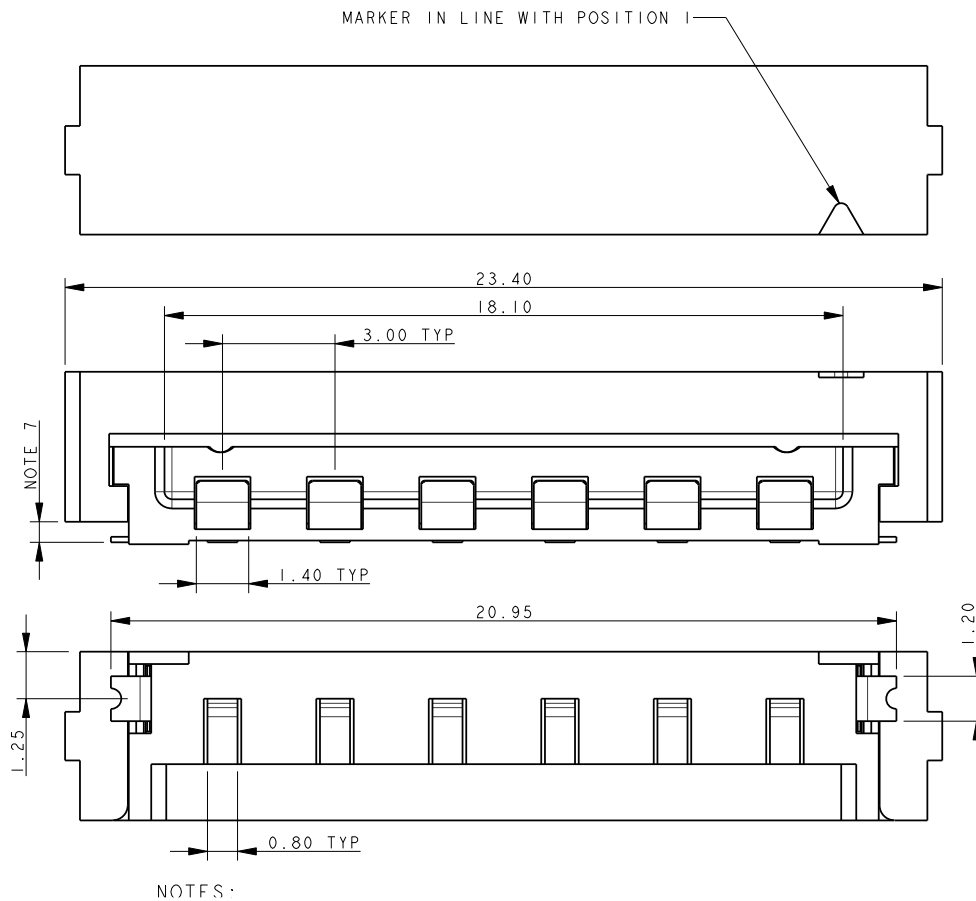


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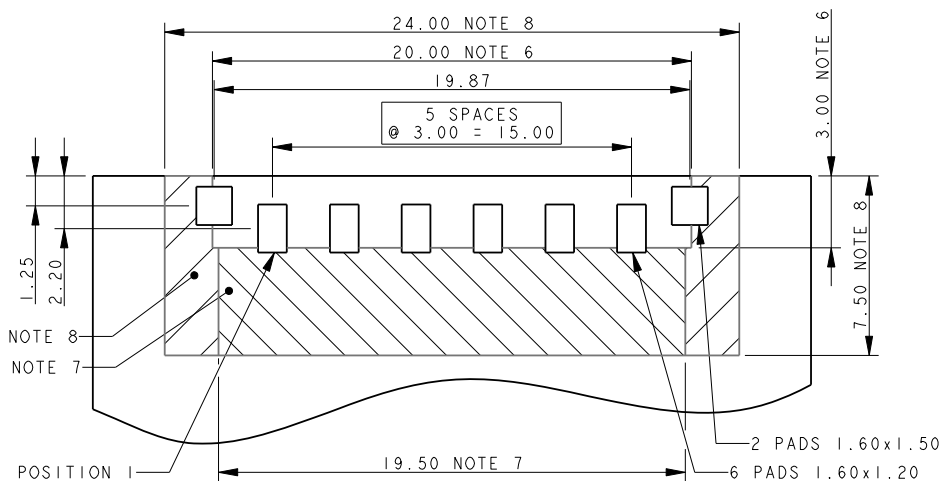
## SOCKET TOP LOADING 6 WAY 2 PART PCB STRIP CONNECTOR



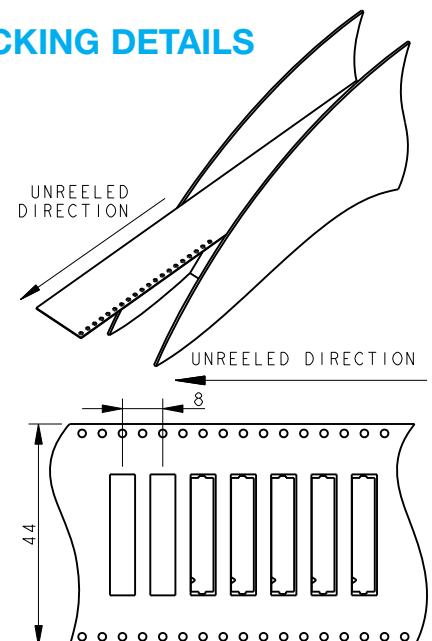
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## 6 WAY PCB BOARD LAYOUT



## PACKING DETAILS



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## CONNECTOR ASSEMBLY



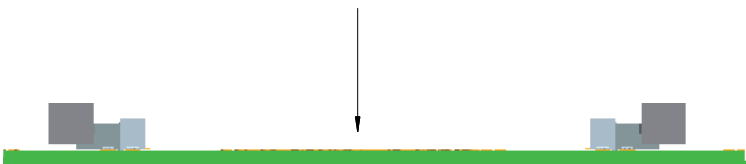
COVER FORWARD (LOCKED)



COVER SLID BACK



DROP PCB ASSEMBLY ONTO MATING CONNECTORS



## Данный компонент на территории Российской Федерации

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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### Офис по работе с юридическими лицами:

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