

Top Load Socket

Series 22-9159



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.

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

Number of Ways		
Code	No of Ways	Details
002	2	Page 2
003	3	Page 3
004	4	Page 4
005	5	Page 5
006	6	Page 6

1
2 Part
PCB Strip
Connector

01
Connector
Pitch
01 = 3mm

Color/Approval		
Code	Color	Approval
1	White	Standard
9	White	UL Approved

Plating Option		
Code	Contact	Bracket
16	Gold in Contact Area Tin on Solder Tail	Tin all over

Certification: UL File #E90723



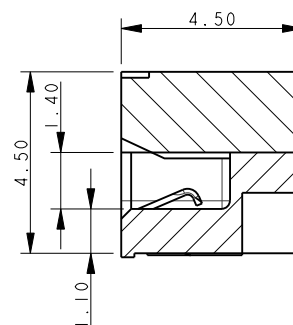
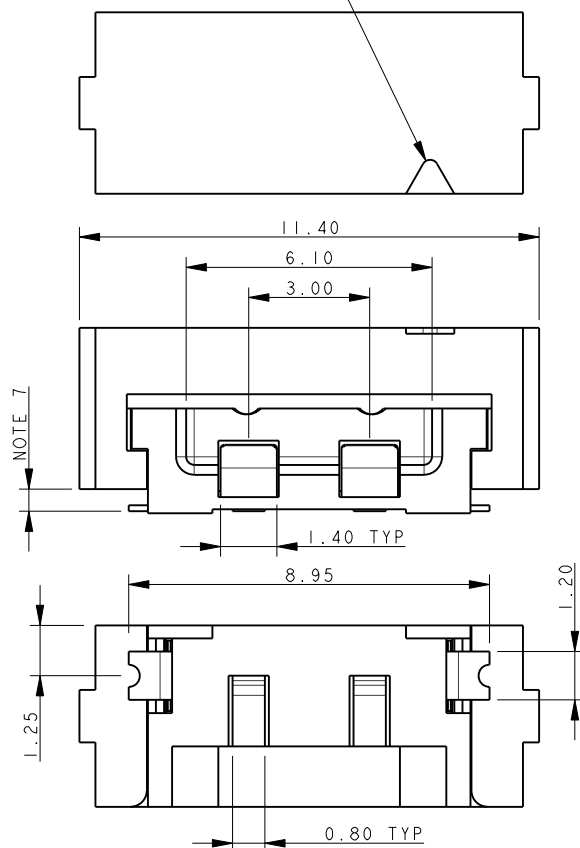
Top Load Socket

Series 22-9159



SOCKET TOP LOADING 2 WAY 2 PART PCB STRIP CONNECTOR

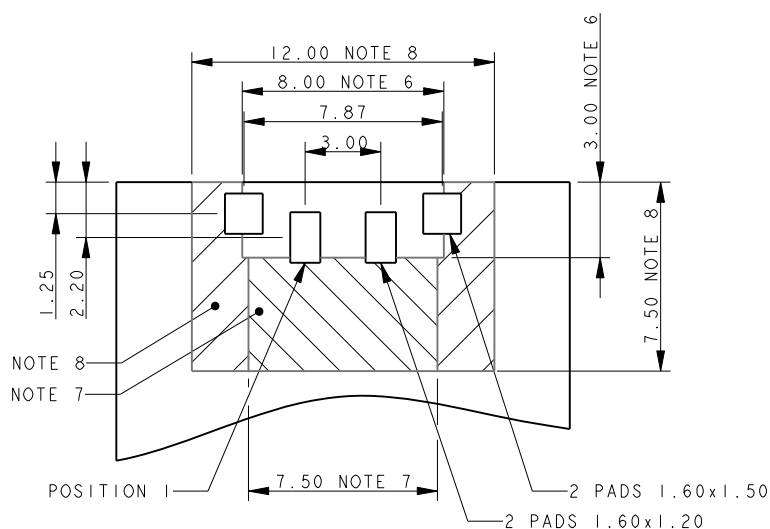
MARKER IN LINE WITH POSITION 1



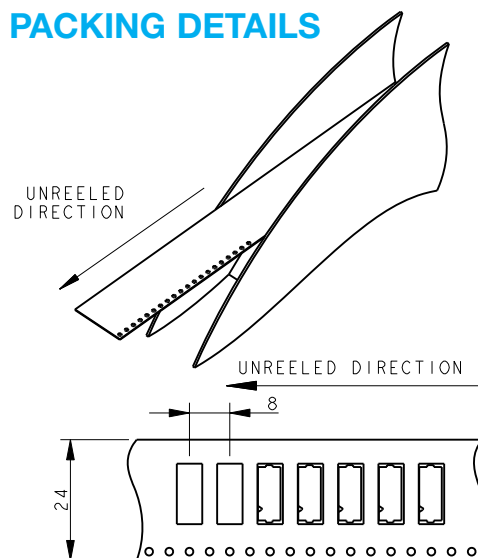
NOTES:

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 1.
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

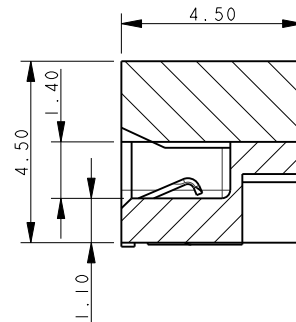
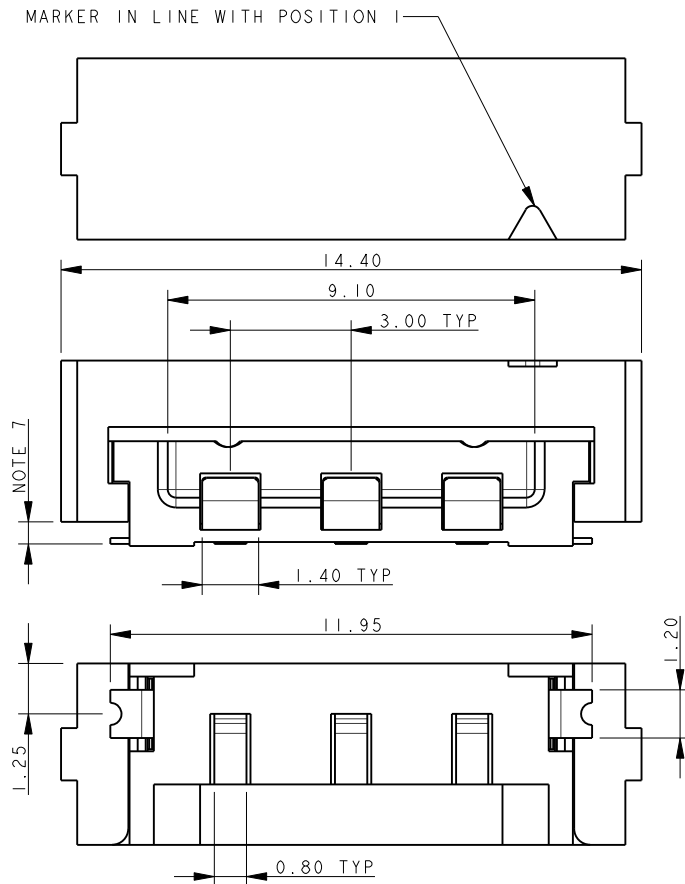


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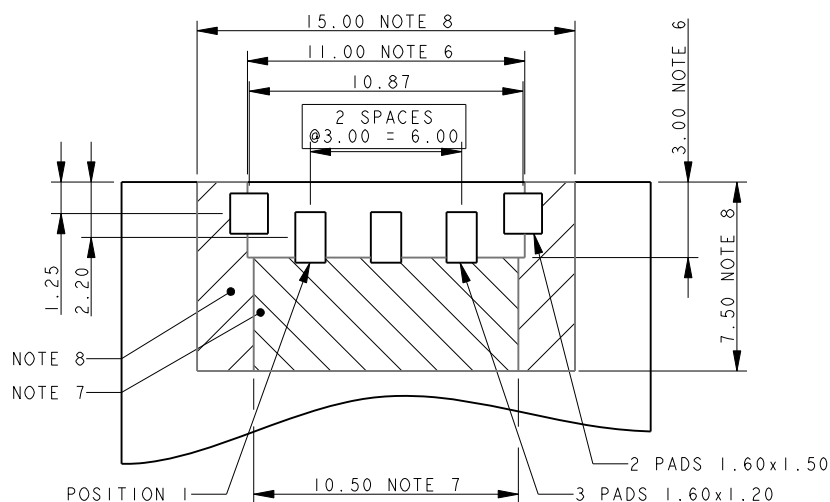
SOCKET TOP LOADING 3 WAY 2 PART PCB STRIP CONNECTOR



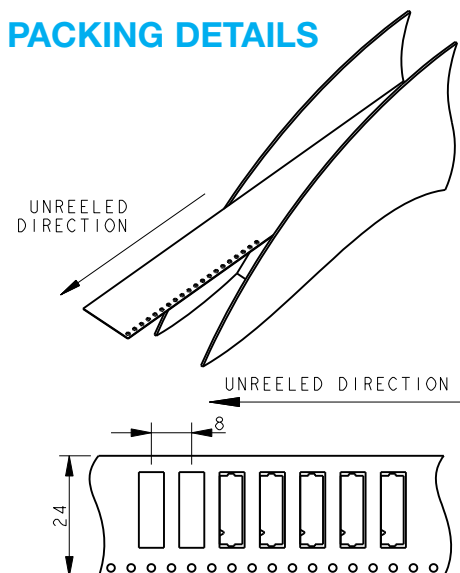
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6. OUTLINE OF CONNECTOR.
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3 WAY PCB BOARD LAYOUT



PACKING DETAILS

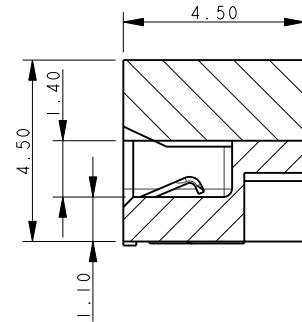
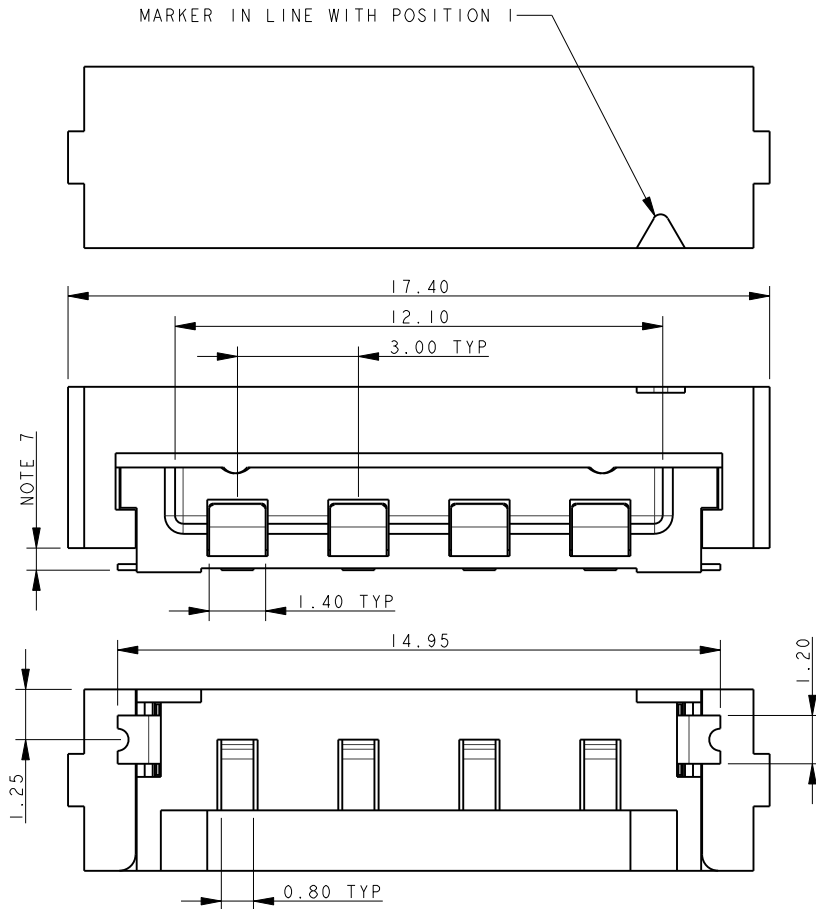


Top Load Socket

Series 22-9159



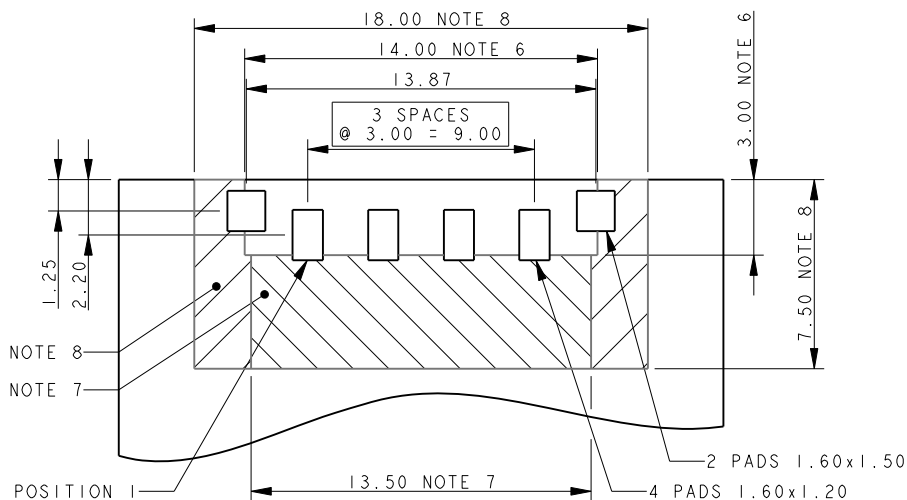
SOCKET TOP LOADING 4 WAY 2 PART PCB STRIP CONNECTOR



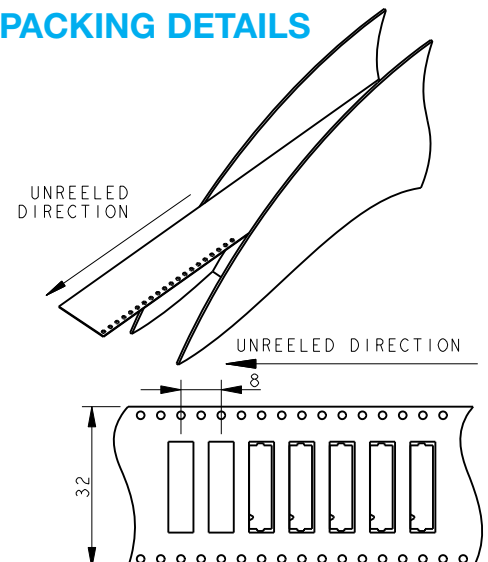
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4 WAY PCB BOARD LAYOUT



PACKING DETAILS

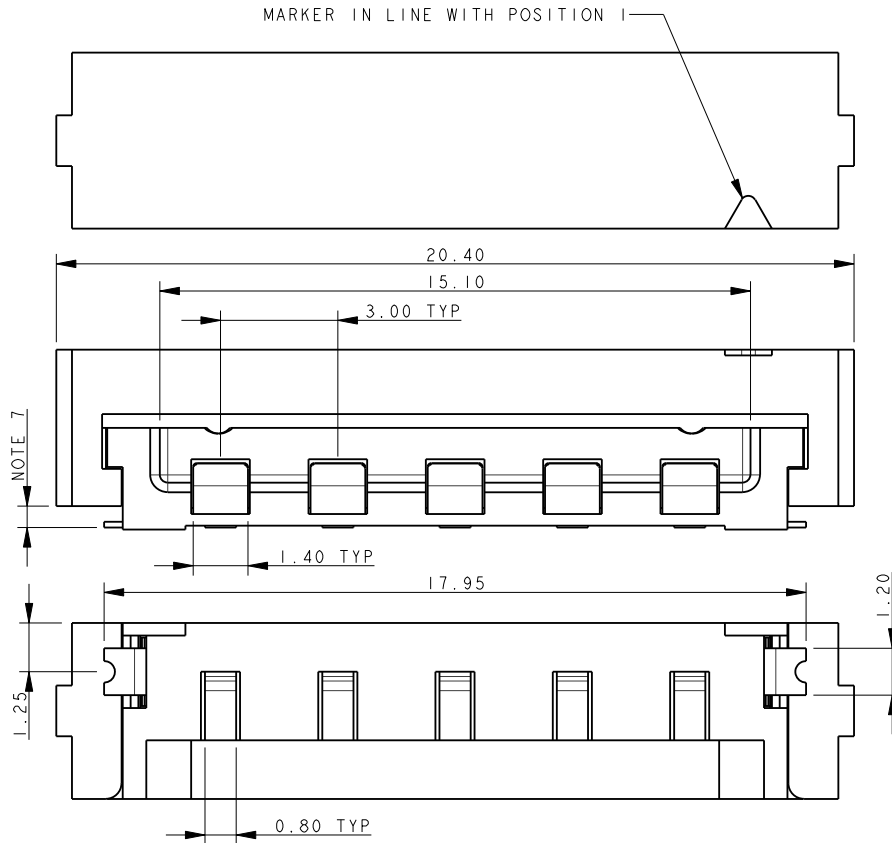


Top Load Socket

Series 22-9159



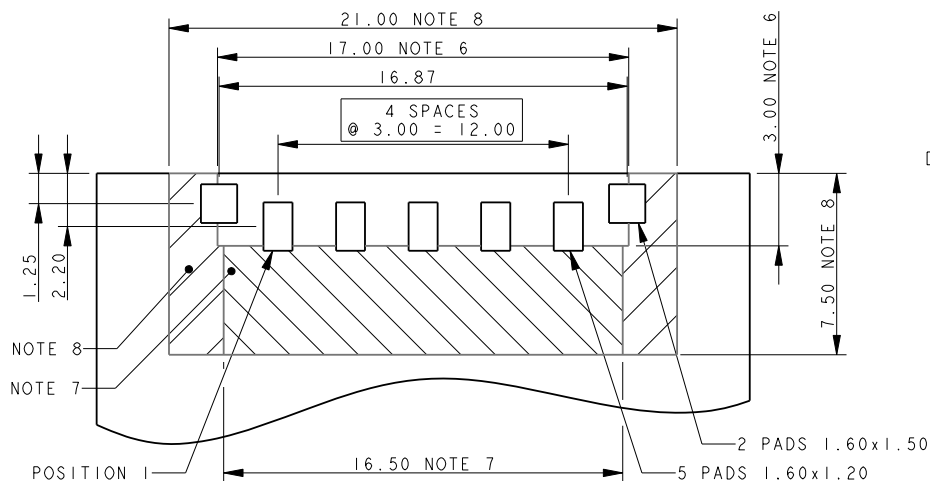
SOCKET TOP LOADING 5 WAY 2 PART PCB STRIP CONNECTOR



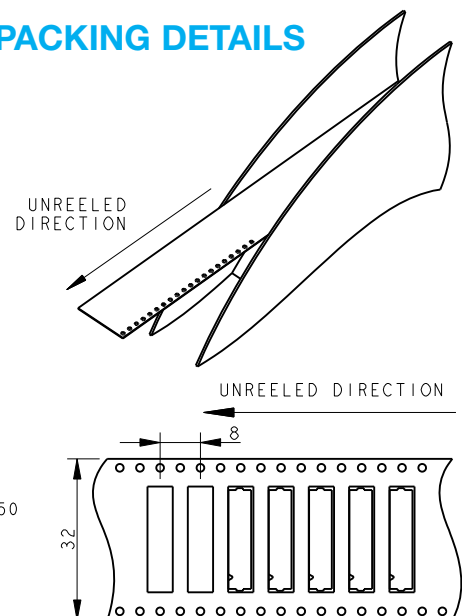
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8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

5 WAY PCB BOARD LAYOUT



PACKING DETAILS

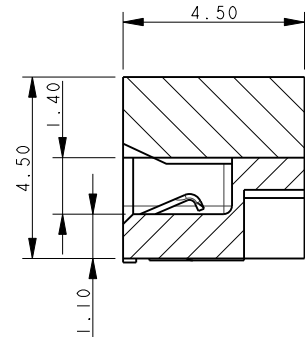
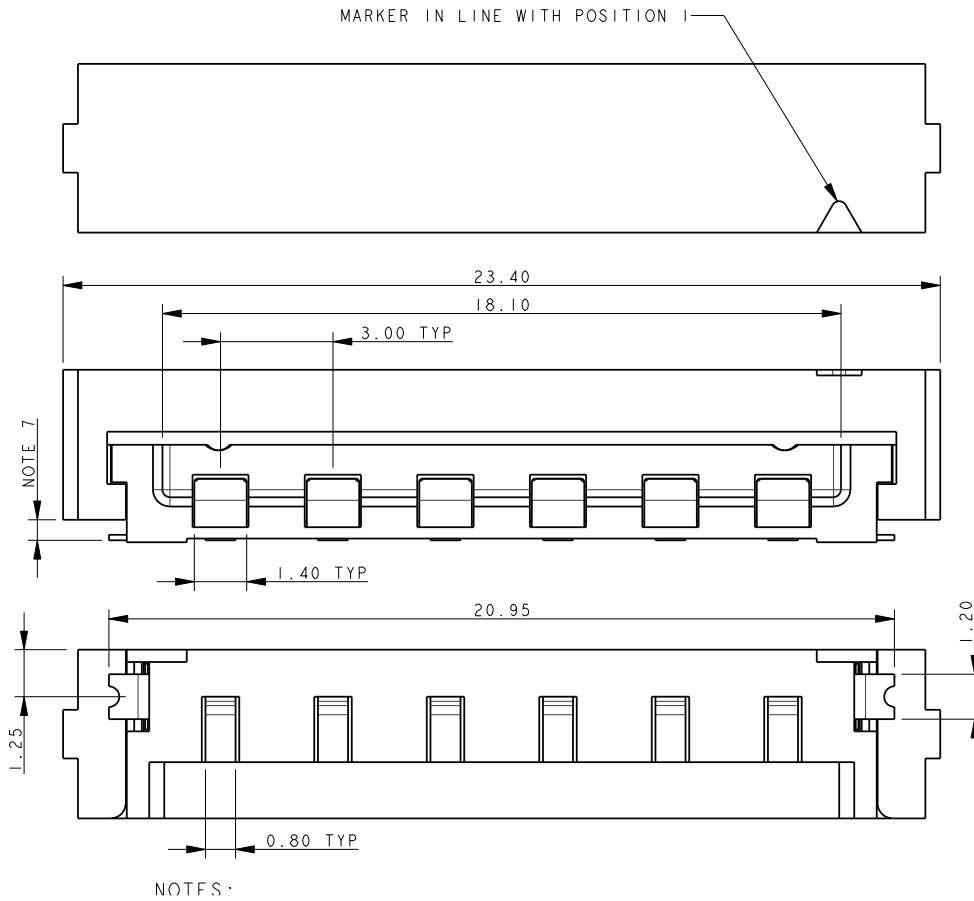


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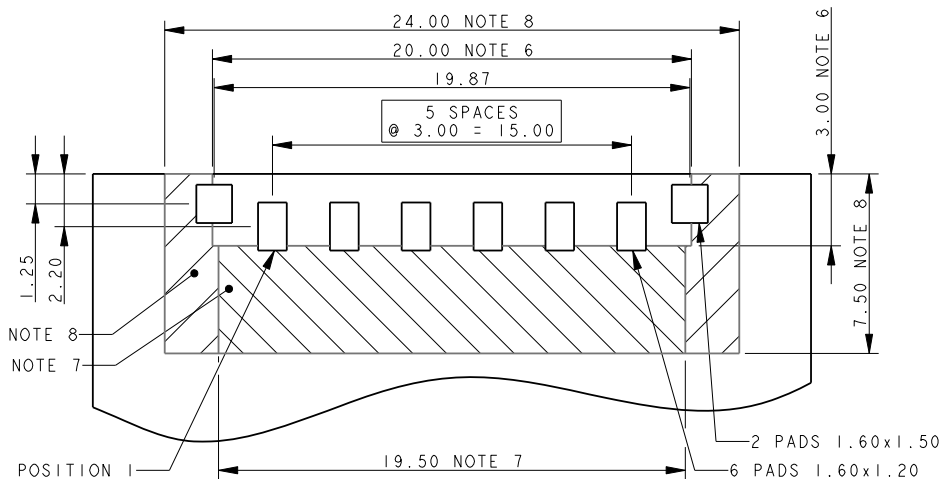
SOCKET TOP LOADING 6 WAY 2 PART PCB STRIP CONNECTOR



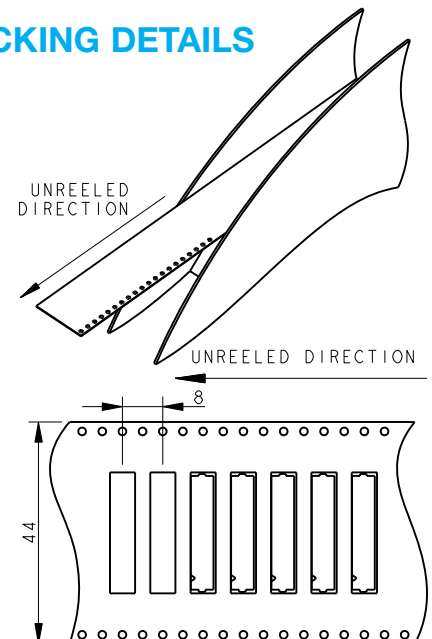
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6 WAY PCB BOARD LAYOUT



PACKING DETAILS



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CONNECTOR ASSEMBLY



COVER FORWARD (LOCKED)



COVER SLID BACK



DROP PCB ASSEMBLY ONTO MATING CONNECTORS

