

KAG-Identnummer 11061750
Molex 878320810 (8-polig)
H17696, 11.08.22, Ra.



This document was generated on 07/26/2022

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878320810](#)
Status: **Active**
Overview: [Milli-Grid Connector System](#)
Description: 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Surface Mount, Shrouded, Lead-Free, 8 Circuits, 0.38µm Gold (Au) Plating, with Locking Window, without Pick-and-Place Cap, with PCB Locator, Tube

Documents:

3D Model	Application Specification 503940001-AS-000 (PDF)
Drawing (PDF)	Packaging Specification PK-87831-001-001 (PDF)
3D Model (PDF)	Datasheet (PDF)
Product Specification PS-87831-027-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	87832
Application	Signal, Wire-to-Board
Comments	Contact Molex for application in automotive industry
Overview	Milli-Grid Connector System
Product Name	Milli-Grid
UPC	822348272464

Physical

Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	0.372g
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Tube
Pitch - Mating Interface	2.00mm
Pitch - Termination Interface	2.00mm
Plating min - Mating	0.381µm
Plating min - Termination	1.905µm
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55° to +105°C



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant
REACH SVHC

Not Contained Per -
D(2022)4187-DC (10
June 2022)

Halogen-Free
Status

Not Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

Green Image

ELV

Not Relevant

RoHS Phthalates

Not Contained

Search Parts in this Series

87832 Series

Mates With

Milli-Grid Vertical Through Hole Receptacle [79107](#) , [78787](#) , Milli-Grid Flex-to-Board Vertical Receptacle [79108](#) , Milli-Grid Vertical Surface Mount Receptacle [79109](#) , [78788](#) , Milli-Grid Crimp Housing [51110](#) , Milli-Grid Cable-to-Board Receptacle [87568](#)

Termination Interface: Style	Surface Mount
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Electrical

Current - Maximum per Contact	2.0A
Voltage - Maximum	125V

Solder Process Data

Duration at Max. Process Temperature (seconds)	010
Lead-freeProcess Capability	REFLOW
Max. Cycles at Max. Process Temperature	001
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Application Specification	503940001-AS-000
Packaging Specification	PK-87831-001-001
Product Specification	PS-87831-027-001
Sales Drawing	SD-87832-0001-001

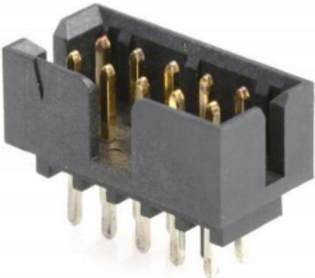
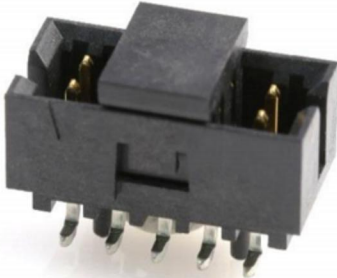
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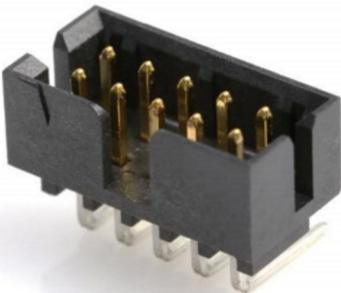
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MILLIGRID

Wire to Board

CONNECTOR SYSTEM

Vertical Header	Vertical Header, SMT
	
Series: 87831	Series: 87832

R/A Header

Series: 87833

[Milli-Grid Connector System Web Page](#)
[TABLE OF CONTENTS](#)


REVISION:	ECM INFORMATION:	TITLE:	SHEET No.		
B	EC No: 630301 DATE: 2020/01/10	PRODUCT SPECIFICATION 2MM WIRE-TO-BOARD CONNECTOR SYSTEM	1 of 14		
DOCUMENT NUMBER:	DOC TYPE:	DOC PART:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
PS-87831-027	PS	001	ABABUPS	MRAMAKRISHNA	MRAMAKRISHNA
TEMPLATE FILENAME: 1703070003 REV A					

Table of Contents

ITEM	PAGE
1.0 SCOPE	3
2.0 PRODUCT DESCRIPTION	3
2.1 DESCRIPTION, SERIES NUMBER, AND LINKS	3
2.2 DIMENSIONS, MATERIALS, PLATINGS	3
2.3 ENVIRONMENTAL CONFORMANCE	3
2.4 SAFETY AGENCY LISTINGS	3
3.0 APPLICABLE DOCUMENTS AND SPECIFICATION	4
3.1 MOLEX DOCUMENTS	4
3.2 INDUSTRY DOCUMENTS	4
4.0 ELECTRICAL PERFORMANCE RATINGS	5
4.1 VOLTAGE	5
4.2 CURRENT RATING (MAXIMUM AMPERES)	5
4.3 TEMPERATURE	6
4.4 DURABILITY	6
5.0 QUALIFICATION	6
6.0 PERFORMANCE	7
6.1 ELECTRICAL PERFORMANCE	7
6.2 MECHANICAL PERFORMANCE	8
6.3 ENVIRONMENTAL PERFORMANCE	9
7.0 TEST SEQUENCE GROUPS	10
8.0 SOLDER INFORMATION	11
8.1 SOLDER PROCESS TEMPERATURE	11
8.2 REFLOW SOLDERING PROFILE	11
9.0 PACKAGING	12
10.0 SPECIAL INSTRUCTIONS FOR HIGH-TEMPERATURE REFLOW PROCESSING ONLY	13
11.0 POLARIZATION AND KEYING OPTIONS	14

[Milli-Grid Connector System Web Page](#)

[TABLE OF CONTENTS](#)



REVISION:	ECM INFORMATION:	TITLE:				SHEET No.
B	EC No: 630301	PRODUCT SPECIFICATION 2MM WIRE-TO-BOARD CONNECTOR SYSTEM				2 of 14
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PS-87831-027		PS	001	ABABUPS	MRAMAKRISHNA	MRAMAKRISHNA
TEMPLATE FILENAME: 1703070003.REV.A						

1.0 SCOPE

This specification covers the performance requirements for Milli-Grid 2 mm Dual Row Shrouded Headers.

2.0 PRODUCT DESCRIPTION

2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES NUMBER
Vertical Header	87831
Vertical Header (SMT)	87832
R/A Header	87833

These series mate with Molex:

- Milli-Grid 2 mm Grid Wire to Board Connector, Crimp Receptacle Housing, 51110 series and Crimp Terminal, 50394 series.
- 2 mm Milli-Grid Dual Row IDT, 87568 series.
- Milli-Grid 2 mm Grid Wire to Board Panel Mount Receptacle. (Up To 20 Circuit Only). Crimp Receptacle Housing, 151014 series and Crimp Terminal, 50394 series.

2.2 DIMENSIONS, MATERIALS, PLATINGS

See sales drawings for details on dimensions, materials and platings.

2.3 ENVIRONMENTAL CONFORMANCE

To find product compliance information:

- [Go to molex.com](http://molex.com)
- Enter the part number in the search field.
- At the bottom of the page go to "Environmental" to see compliance status.

2.4 SAFETY AGENCY LISTINGS

UL Number: E29179
CSA Number: LR19980



CSA approval meets following standards/test procedures:

- CSA std. C22.2 No. 182.3-M1987
 - UL-1977
- * "C" and "US" mark adjacent to CSA signifies that the product has been evaluated to the applicable CSA and ANSI/UL standards, for use in Canada and US respectively.

Series 87831, 87832, 87833, rated 2.0 A, 125 V

[Milli-Grid Connector System Web Page](#)

[TABLE OF CONTENTS](#)



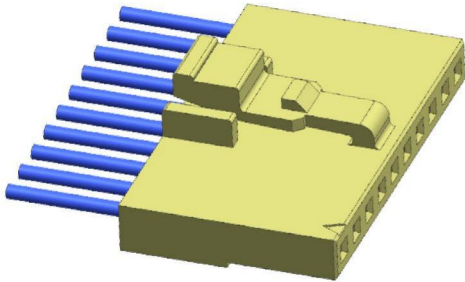
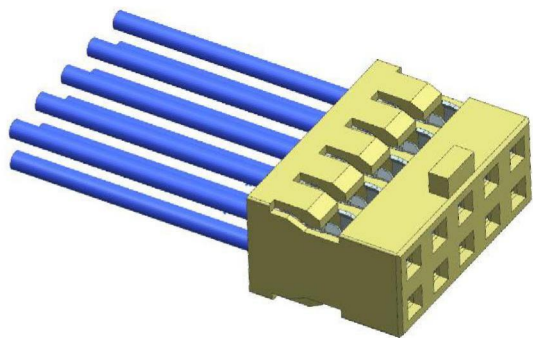
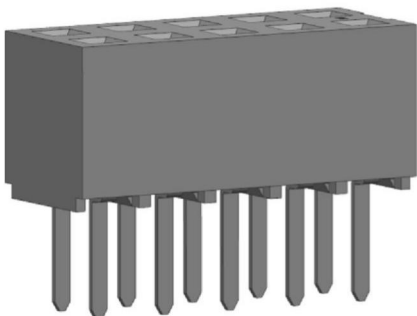
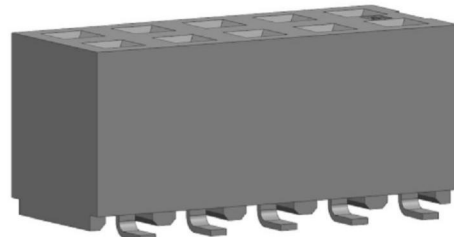
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	DATE: 2020/01/10					
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PS-87831-027		PS	001	ABABUPS	MRAMAKRISHNA	MRAMAKRISHNA
TEMPLATE FILENAME: 1703070003.REV.A						

5Milli-Grid Connector System

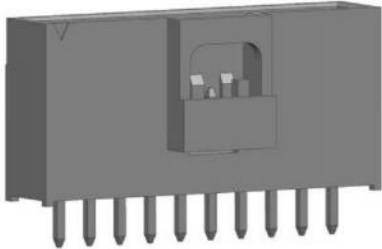
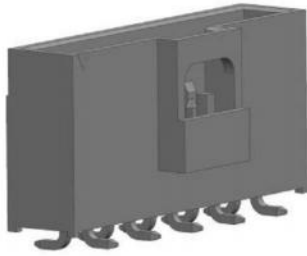
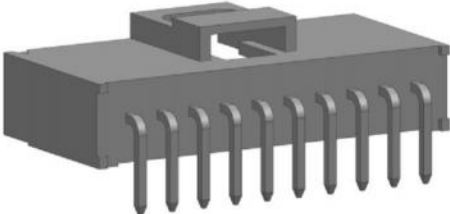
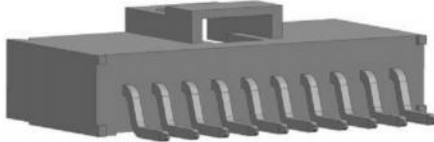
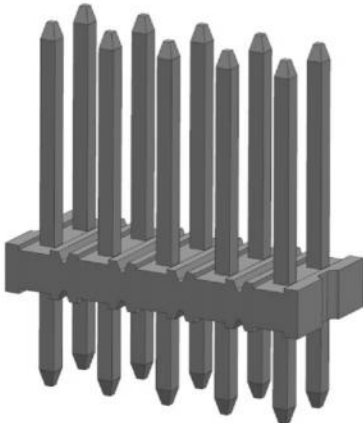
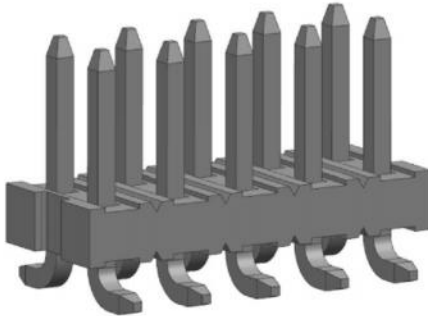
1.0 SCOPE

This document contains information pertaining to application requirements of the Milli Grid Connector System.

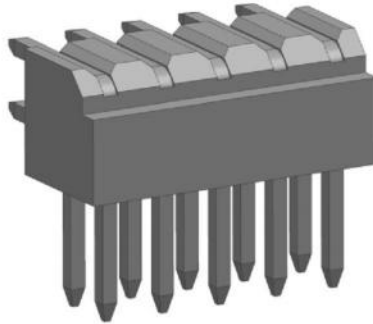
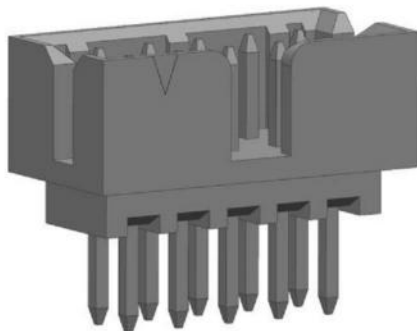
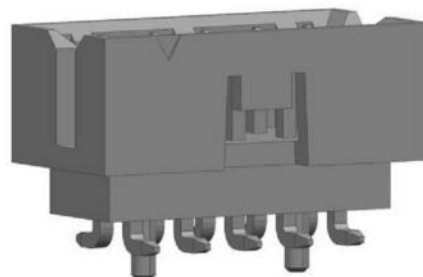
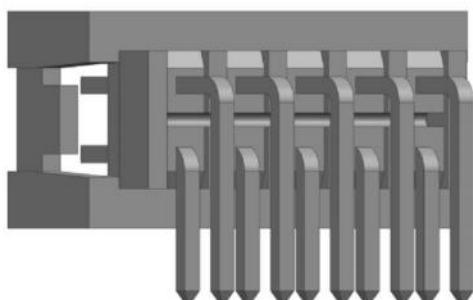
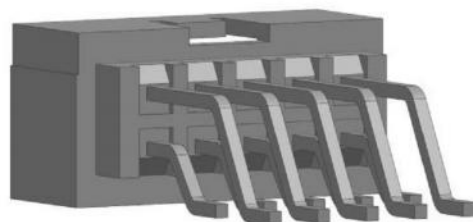
2.0 PRODUCT DESCRIPTION

SINGLE ROW RECEPTACLE (WTB)	DUAL ROW RECEPTACLE (WTB)
	
DUAL ROW RECEPTACLE (BTB) TROUGH HOLE	DUAL ROW RECEPTACLE (BTB) SMT
	

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	1 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar

SINGLE ROW VERTICAL TROUGH HOLE	SINGLE ROW VERTICAL SMT
	
SINGLE ROW RIGHT ANGLE TROUGH HOLE	SINGLE ROW RIGHT ANGLE SMT
	
DUAL ROW UNSHROUDED VERTICAL TROUGH HOLE	DUAL ROW UNSHROUDED VERTICAL SMT
	

REVISION: A2	ECR/ECN INFORMATION: EC No: 628516 DATE: 2019 / 11 / 03	TITLE: APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	SHEET No. 2 of 13
DOCUMENT NUMBER: 503940001-AS	CREATED / REVISED BY: Akhil	CHECKED BY: Manohar	APPROVED BY: Manohar

DUAL ROW UNSHROUDED RIGHT ANGLE TROUGH HOLE

DUAL ROW SHROUDED VERTICAL TROUGH HOLE

DUAL ROW SHROUDED VERTICAL SMT

DUAL ROW SHROUDED RIGHT ANGLE TROUGH HOLE

DUAL ROW SHROUDED RIGHT ANGLE SMT


REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	3 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar

SEE APPROPRIATE SALES DRAWINGS AND PRODUCT SPECIFICATIONS FOR INFORMATION ON SPECIFIC PART NUMBERS.

3.0 GENERAL NOTES

Appearance: Parts confirm to class “B” requirements of the cosmetic specification PS-45499-002. Refer notes in sales drawing.

1. ASSEMBLY INSTRUCTIONS

Wire to Board

Contact/terminal insertion into Receptacle housing

Use only *female* terminals with receptacle housing. Align the terminal to the receptacle housing cavity axis. Continue inserting until it stops and locks up. Orientation needed to insert terminal in housing as shown in the fig 1. Terminal will lock's up as shown in the **Detail A** view. Pull the terminal back gently to ensure terminal is seated properly.

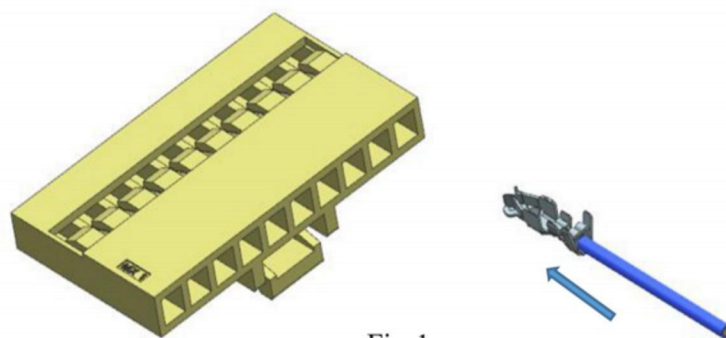


Fig-1

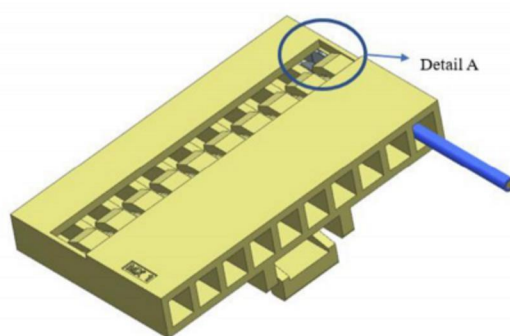
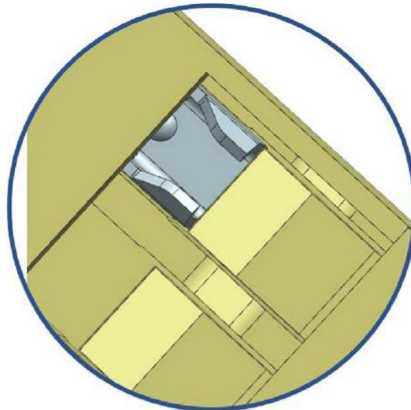


Fig-2

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	4 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			



Detail A

Insert the terminals into all circuits and complete the insertion as shown in in Fig 3 and Carry out the visual inspection of the terminal

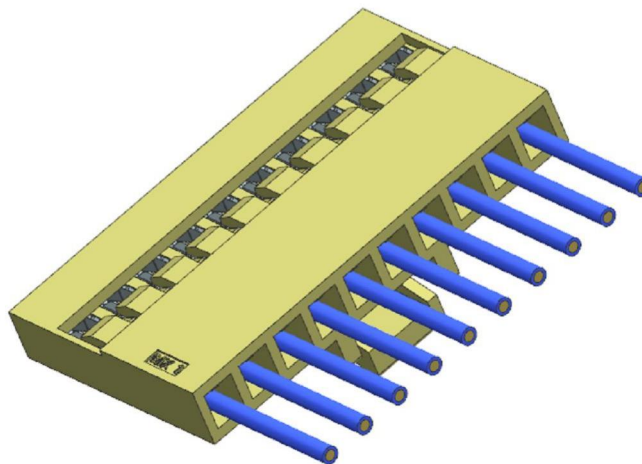


Fig-3

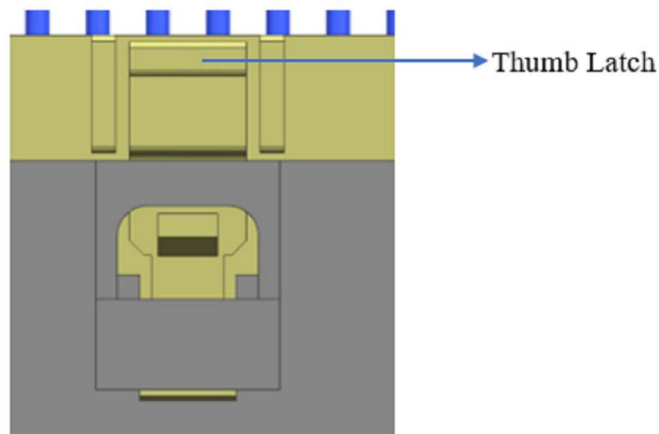
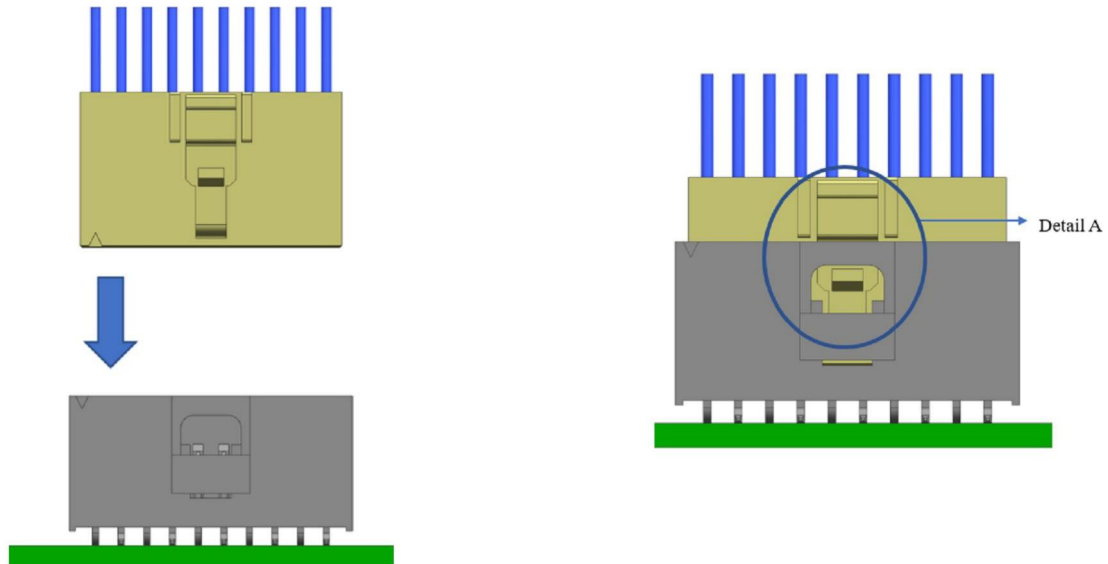
No Servicing Tool available for terminal extraction.

NOTE: Terminal insertion into receptacle housing of dual row also same as single row housing.

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	5 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector mating (Shrouded Single row header)

Align connector system latch and begin the mating process along the same axis, slide the connector assemblies into each other until latch locks with the header as shown below.

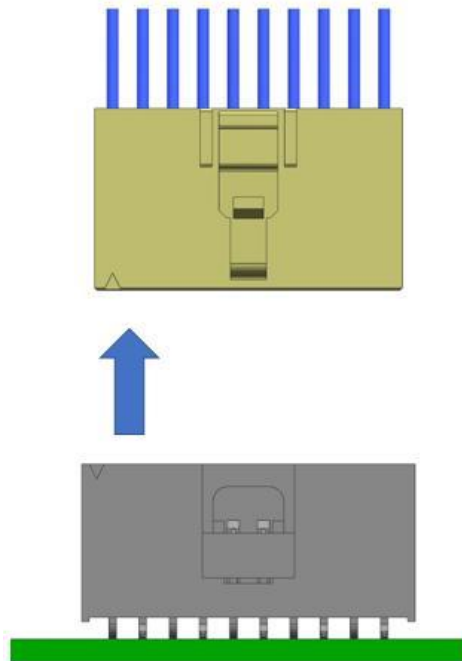


Detail A

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	6 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector unmating

To unmate the connectors press the latch lever on receptacle assembly to disengage the pull the assembly by applying force on thumb latch as shown in Detail view A.



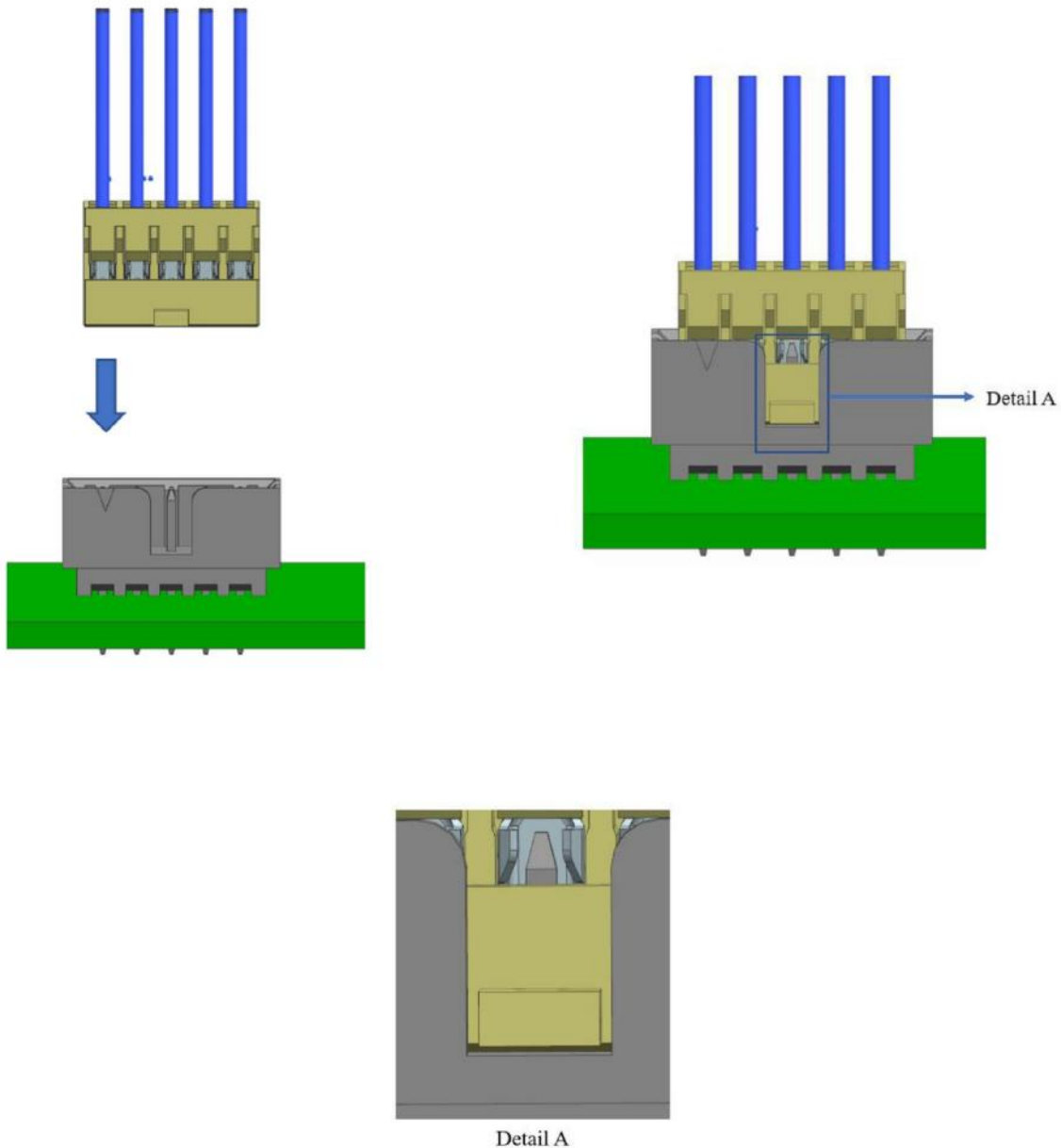
NOTE: Mating and Unmating mechanism remains same irrespective of the termination style of the header.
(Single row through hole and Single row Surface mount termination)

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	7 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

DUAL Row

Connector mating (Shrouded Dual row header)

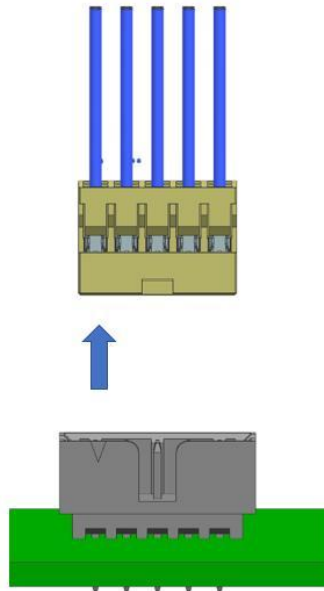
Align the receptacle to the header by arranging the polarization mechanism in axis and slide the connector assemblies into each other until the bottom and they lock due to friction.



REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	8 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar

Connector unmating

To unmate the connectors, just pull back each other until they separate from each other.

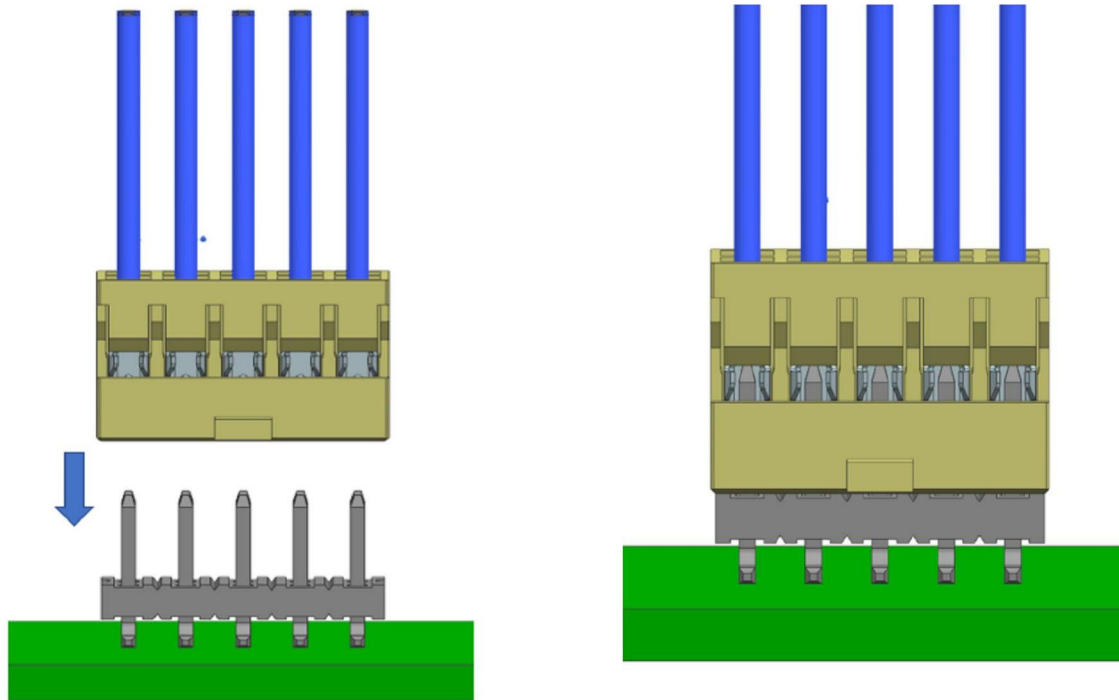


NOTE: Mating and unmating of the above combination remains same irrespective of their termination style.

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	9 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector mating (Unshrouded Dual row header)

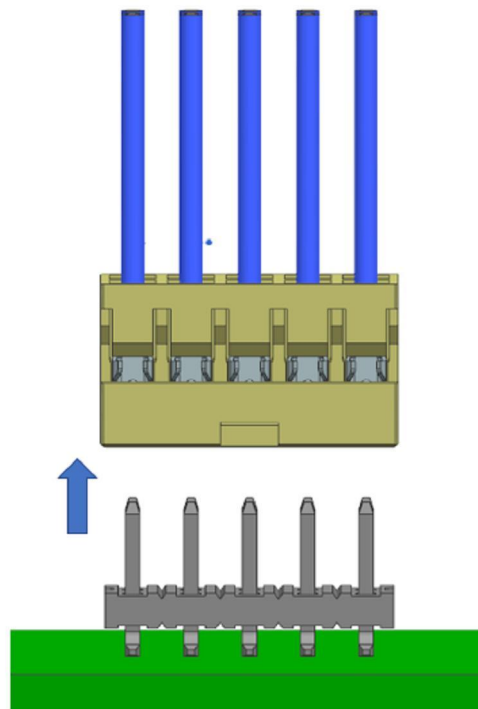
Align the receptacle to the header axis and move the receptacle until the bottom stops.



REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	10 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector unmating

To unmate the connectors, gently pull back each other until they separate from each other



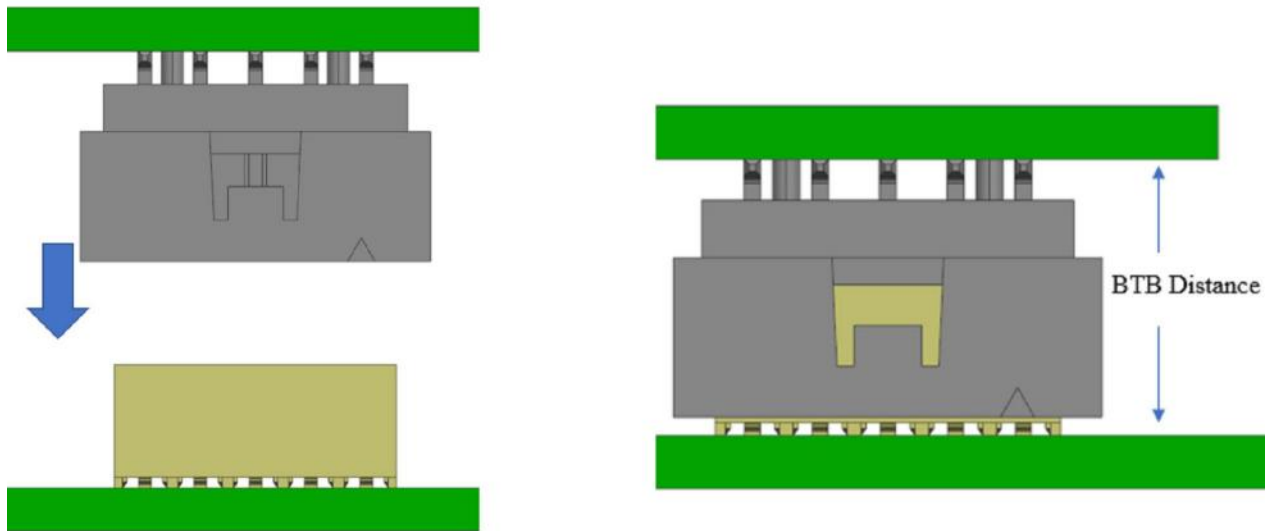
NOTE: Mating and unmating of the above combination remains same irrespective of their termination style

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DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Board to Board

Connector mating (Shrouded Dual row header)

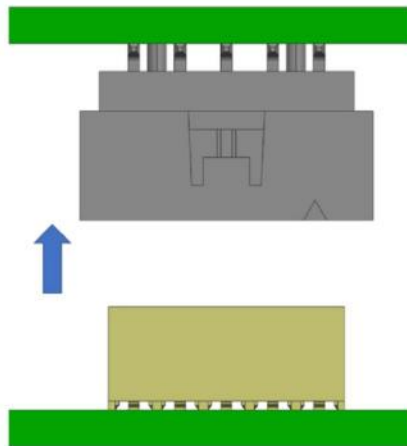
Align the receptacle to the axis of the header and slide the connector assemblies into each other until it bottoms and stops



❖ Please Find the Board-To-Board distance of the Combination in Respective sales drawings.

Connector unmating

To unmate the connectors, gently pull back each other until they separate from each other.

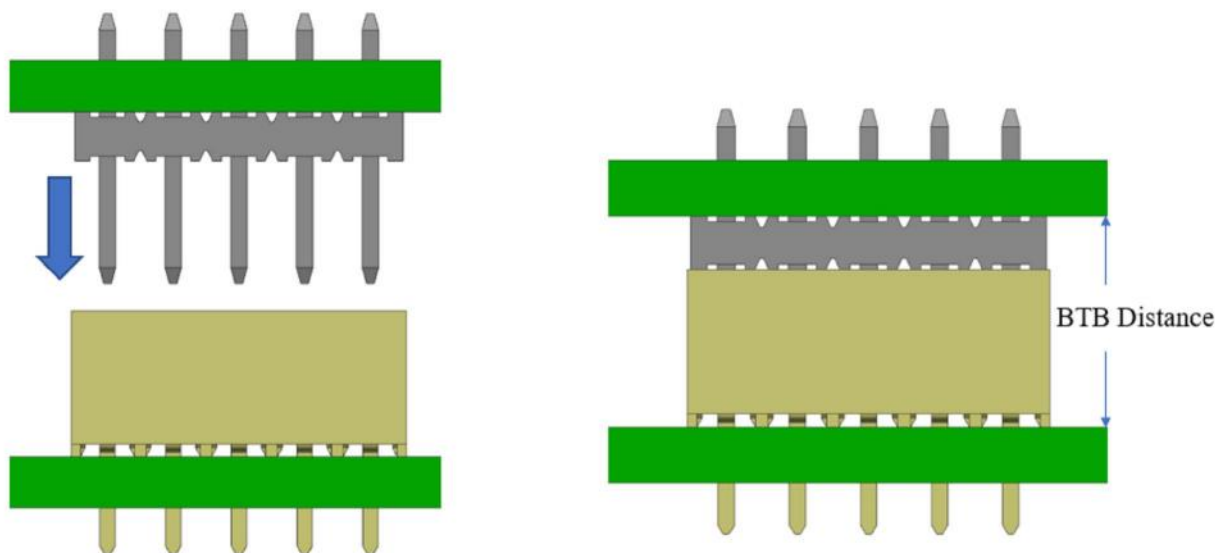


NOTE: Mating and unmating of the above combination remains same irrespective of their termination style.

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A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	12 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector mating (Unshrouded Dual row header)

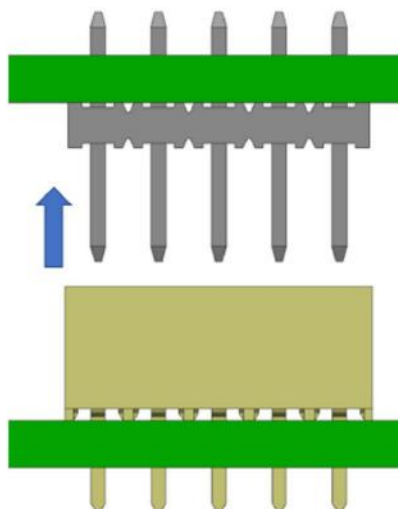
Align the receptacle to the axis of the header and slide the connector assemblies into each other until it bottoms and stops.



❖ Please Find the Board-To-Board distance of the Combination in Respective sales drawings.

Connector unmating

To unmate the connectors, gently pull back each other until they separate from each other.



NOTE: Mating and unmating of the above combination remains same irrespective of their termination style

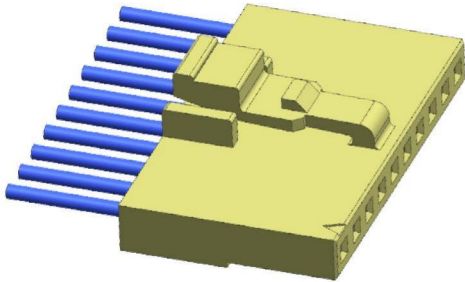
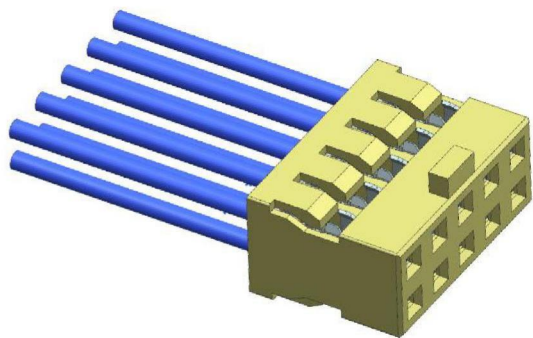
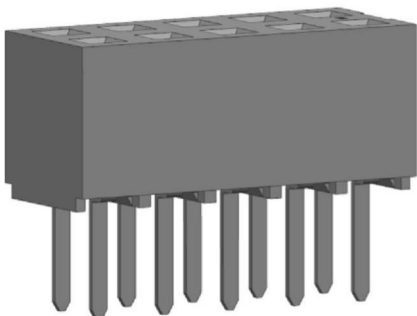
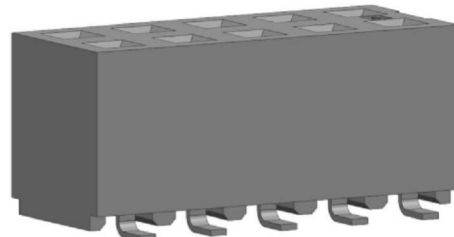
REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	13 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

5Milli-Grid Connector System

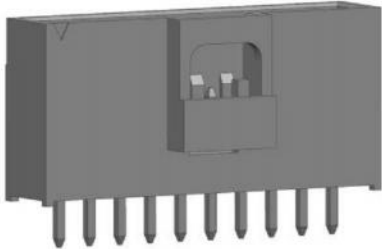
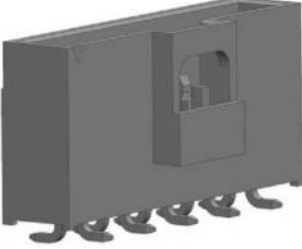
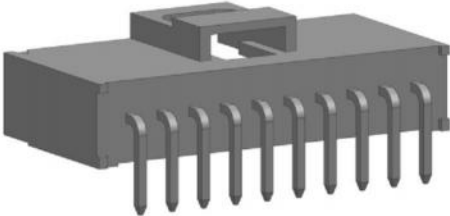
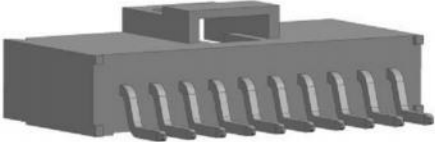
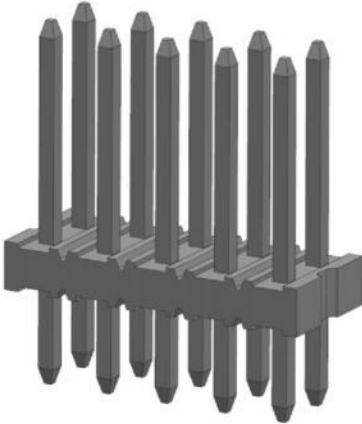
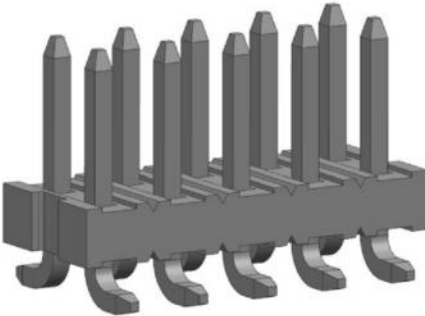
1.0 SCOPE

This document contains information pertaining to application requirements of the Milli Grid Connector System.

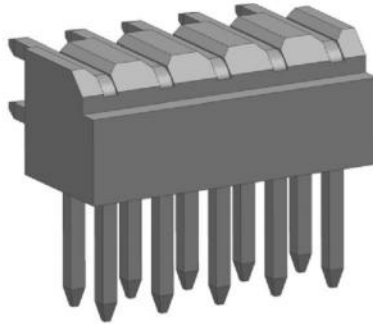
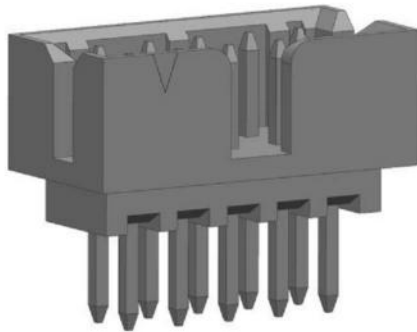
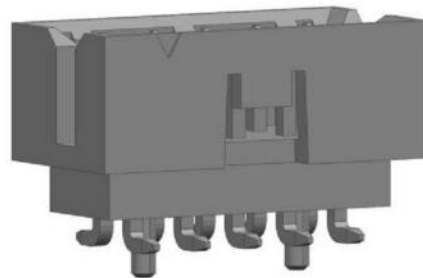
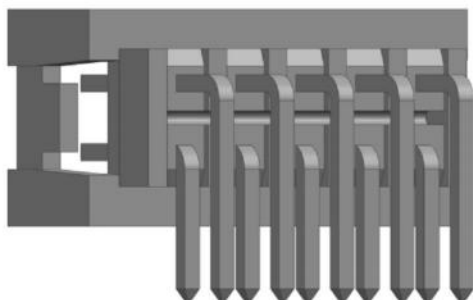
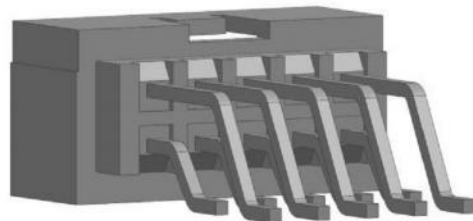
2.0 PRODUCT DESCRIPTION

SINGLE ROW RECEPTACLE (WTB)	DUAL ROW RECEPTACLE (WTB)
	
DUAL ROW RECEPTACLE (BTB) TROUGH HOLE	DUAL ROW RECEPTACLE (BTB) SMT
	

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	1 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar

SINGLE ROW VERTICAL TROUGH HOLE	SINGLE ROW VERTICAL SMT
	
SINGLE ROW RIGHT ANGLE TROUGH HOLE	SINGLE ROW RIGHT ANGLE SMT
	
DUAL ROW UNSHROUDED VERTICAL TROUGH HOLE	DUAL ROW UNSHROUDED VERTICAL SMT
	

REVISION: A2	ECR/ECN INFORMATION: EC No: 628516 DATE: 2019 / 11 / 03	TITLE: APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)		SHEET No. 2 of 13
DOCUMENT NUMBER: 503940001-AS	CREATED / REVISED BY: Akhil	CHECKED BY: Manohar	APPROVED BY: Manohar	

DUAL ROW UNSHROUDED RIGHT ANGLE TROUGH HOLE

DUAL ROW SHROUDED VERTICAL TROUGH HOLE

DUAL ROW SHROUDED VERTICAL SMT

DUAL ROW SHROUDED RIGHT ANGLE TROUGH HOLE

DUAL ROW SHROUDED RIGHT ANGLE SMT


REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	3 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar

SEE APPROPRIATE SALES DRAWINGS AND PRODUCT SPECIFICATIONS FOR INFORMATION ON SPECIFIC PART NUMBERS.

3.0 GENERAL NOTES

Appearance: Parts confirm to class “B” requirements of the cosmetic specification PS-45499-002. Refer notes in sales drawing.

1. ASSEMBLY INSTRUCTIONS

Wire to Board

Contact/terminal insertion into Receptacle housing

Use only *female* terminals with receptacle housing. Align the terminal to the receptacle housing cavity axis. Continue inserting until it stops and locks up. Orientation needed to insert terminal in housing as shown in the fig 1. Terminal will lock's up as shown in the **Detail A** view. Pull the terminal back gently to ensure terminal is seated properly.

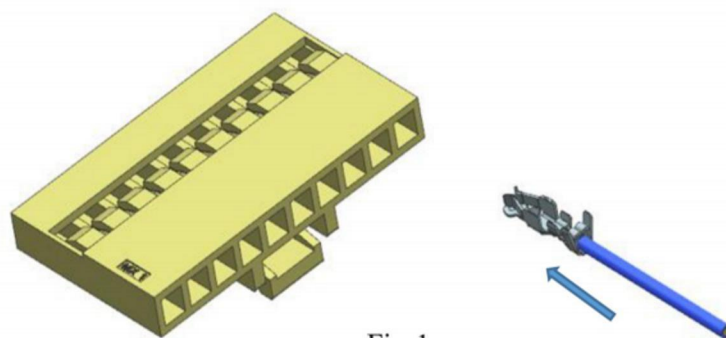


Fig-1

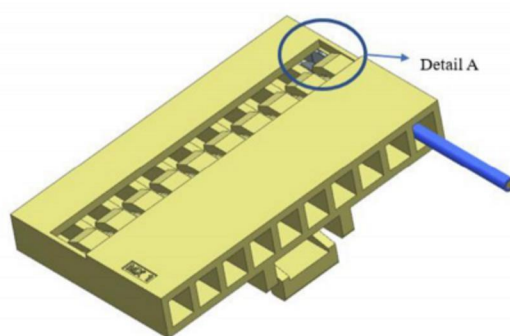
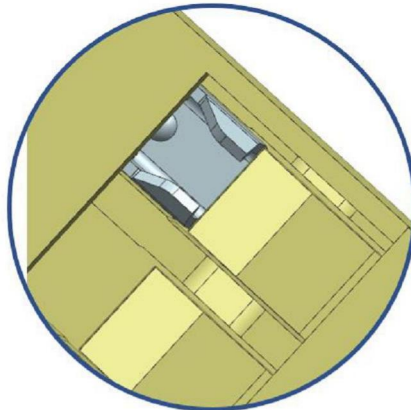


Fig-2

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	4 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			



Detail A

Insert the terminals into all circuits and complete the insertion as shown in in Fig 3 and Carry out the visual inspection of the terminal

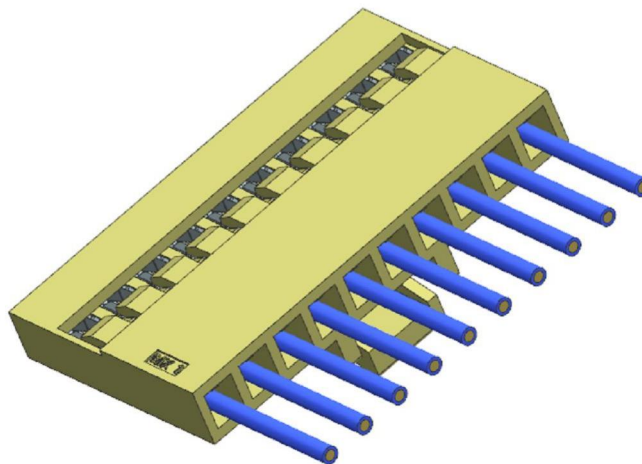


Fig-3

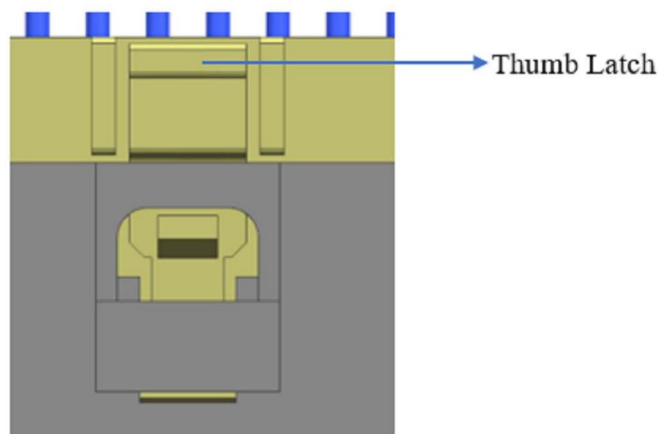
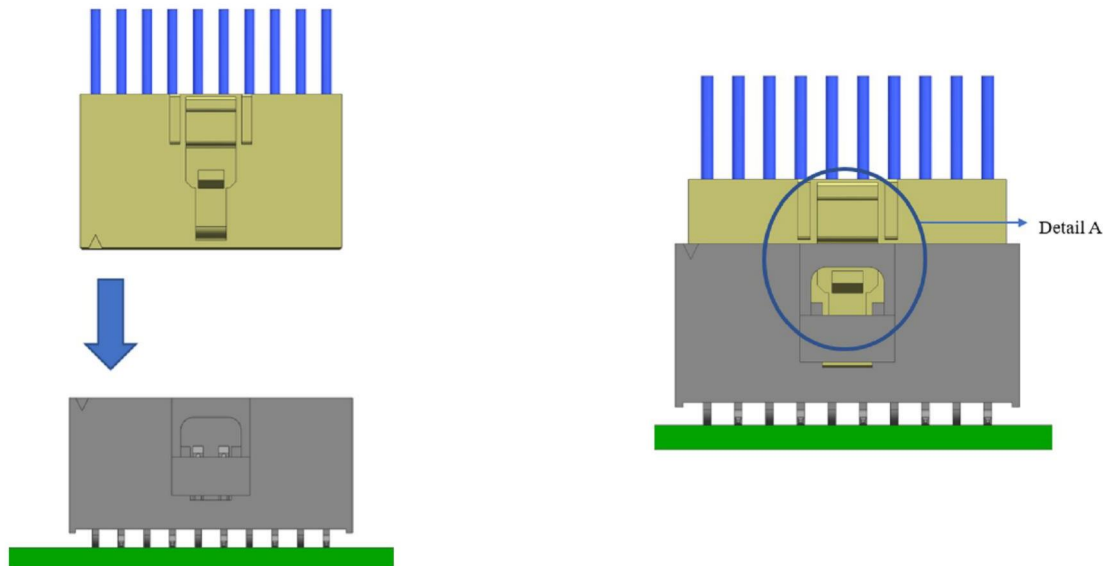
No Servicing Tool available for terminal extraction.

NOTE: Terminal insertion into receptacle housing of dual row also same as single row housing.

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	5 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector mating (Shrouded Single row header)

Align connector system latch and begin the mating process along the same axis, slide the connector assemblies into each other until latch locks with the header as shown below.

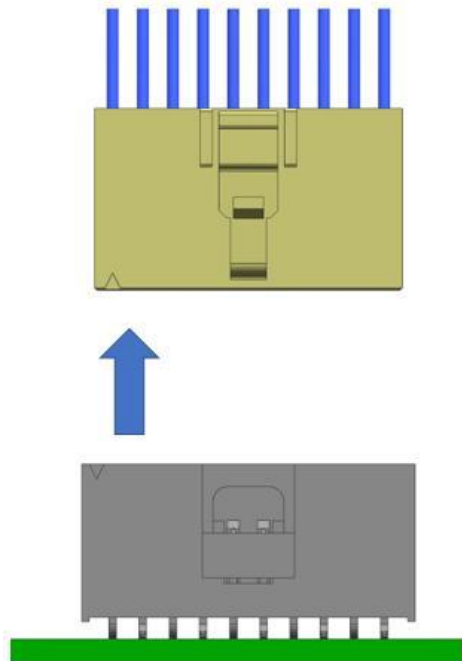


Detail A

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	6 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector unmating

To unmate the connectors press the latch lever on receptacle assembly to disengage the pull the assembly by applying force on thumb latch as shown in Detail view A.



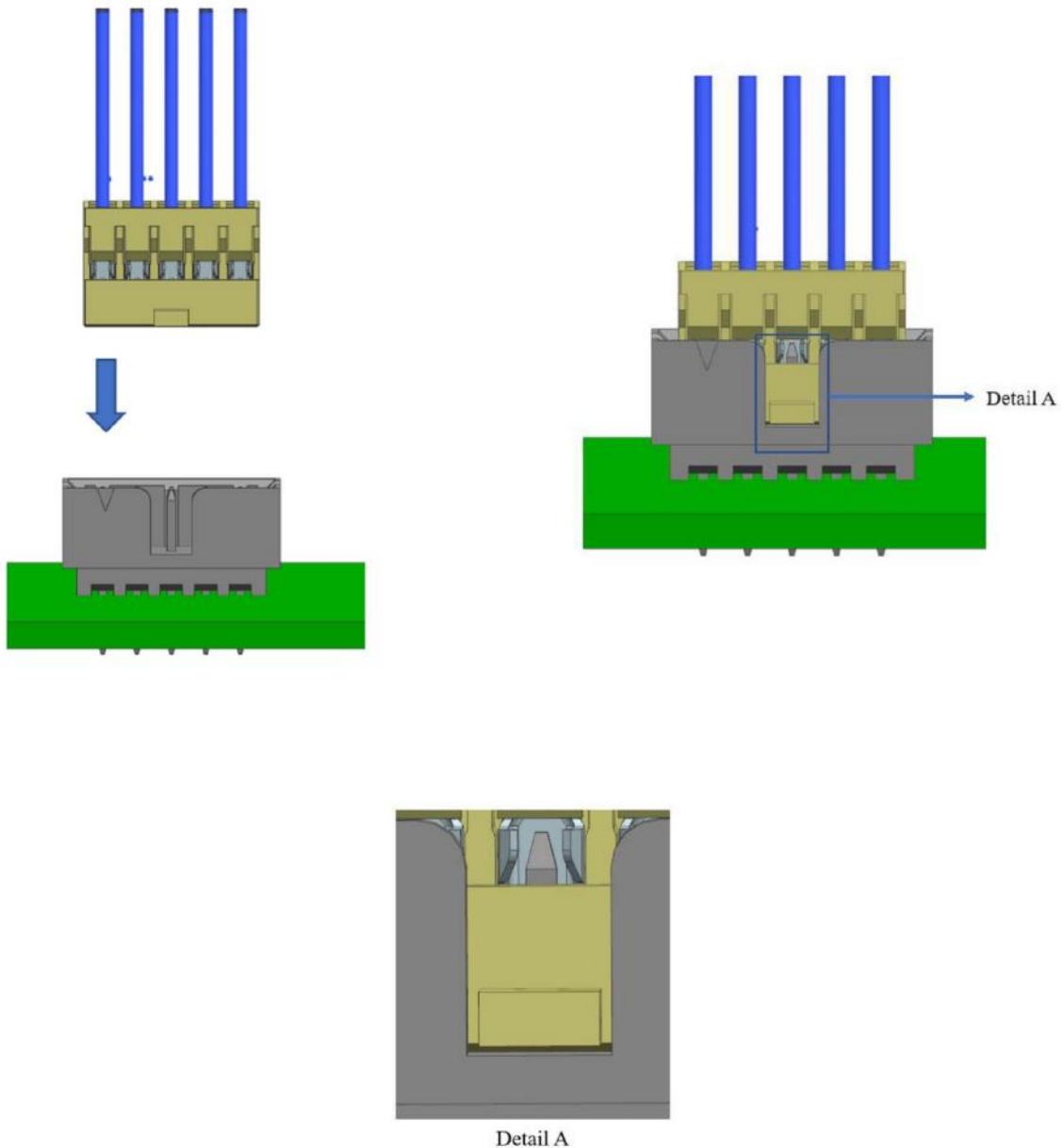
NOTE: Mating and Unmating mechanism remains same irrespective of the termination style of the header.
(Single row through hole and Single row Surface mount termination)

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	7 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

DUAL Row

Connector mating (Shrouded Dual row header)

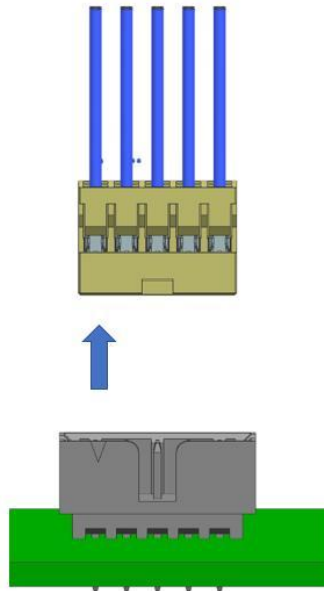
Align the receptacle to the header by arranging the polarization mechanism in axis and slide the connector assemblies into each other until the bottom and they lock due to friction.



REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	8 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar

Connector unmating

To unmate the connectors, just pull back each other until they separate from each other.

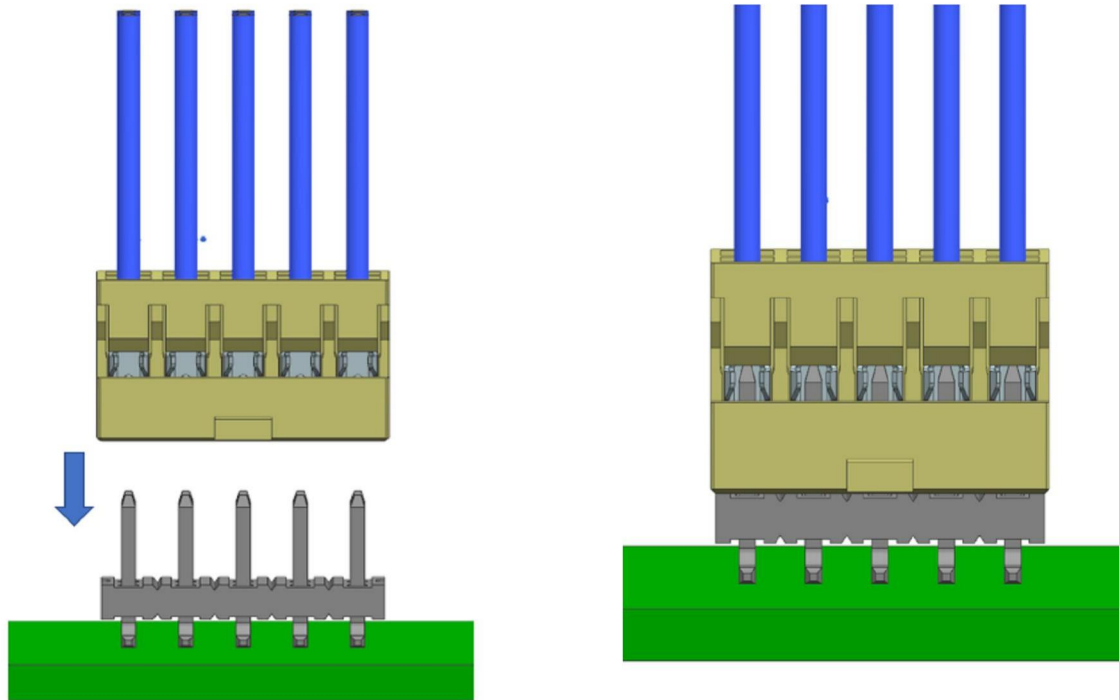


NOTE: Mating and unmating of the above combination remains same irrespective of their termination style.

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	9 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector mating (Unshrouded Dual row header)

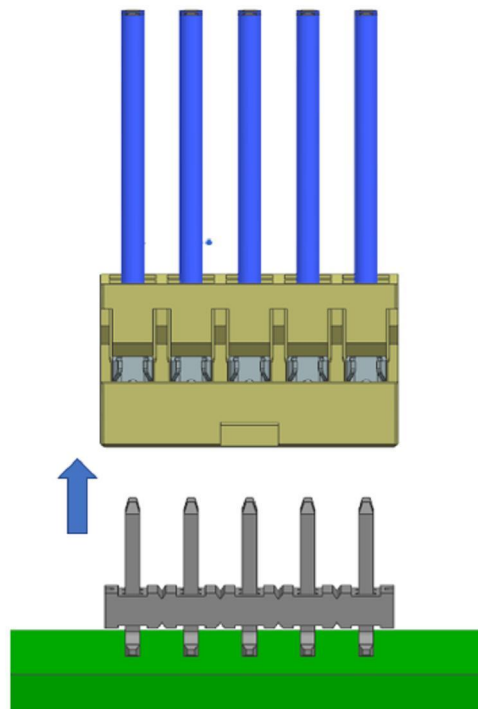
Align the receptacle to the header axis and move the receptacle until the bottom stops.



REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	10 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector unmating

To unmate the connectors, gently pull back each other until they separate from each other



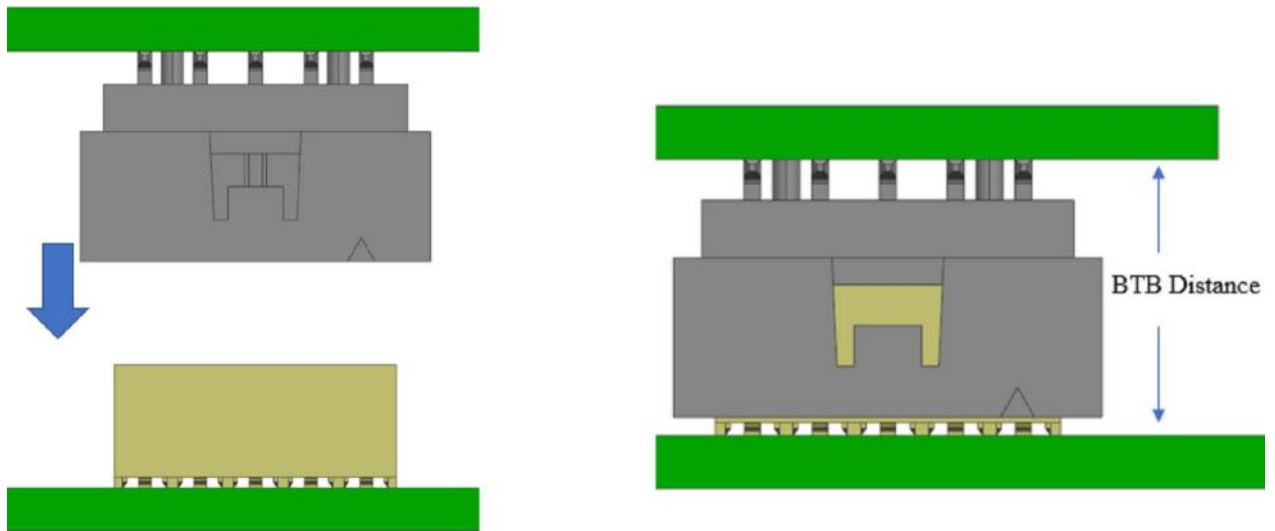
NOTE: Mating and unmating of the above combination remains same irrespective of their termination style

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	11 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Board to Board

Connector mating (Shrouded Dual row header)

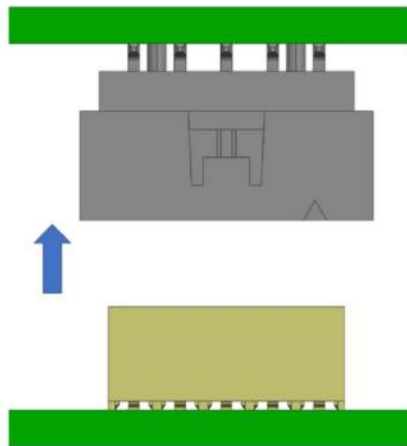
Align the receptacle to the axis of the header and slide the connector assemblies into each other until it bottoms and stops



❖ Please Find the Board-To-Board distance of the Combination in Respective sales drawings.

Connector unmating

To unmate the connectors, gently pull back each other until they separate from each other.

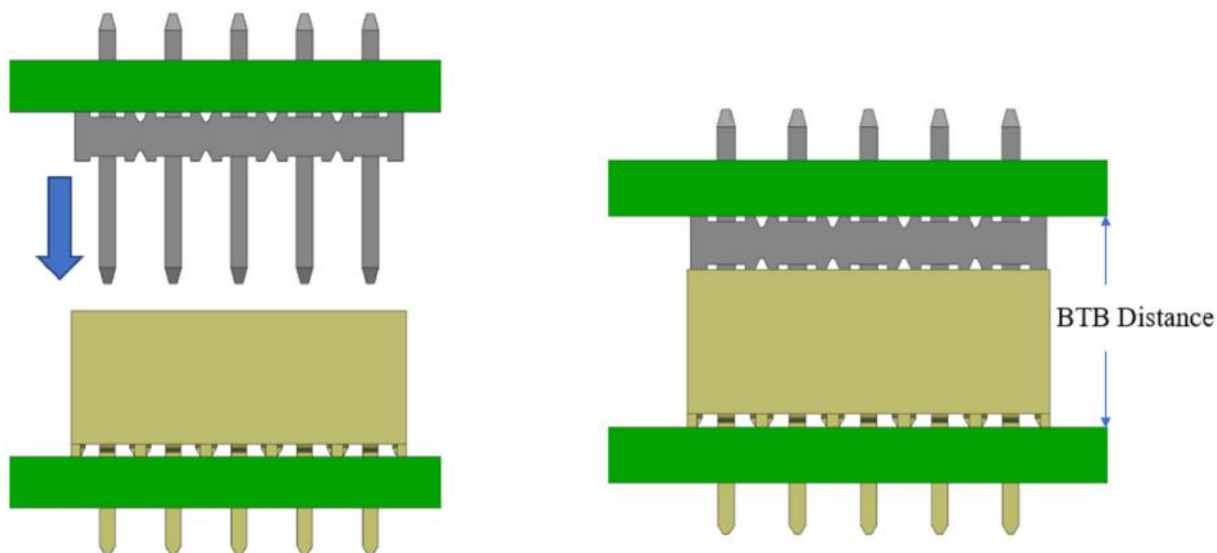


NOTE: Mating and unmating of the above combination remains same irrespective of their termination style.

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	12 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

Connector mating (Unshrouded Dual row header)

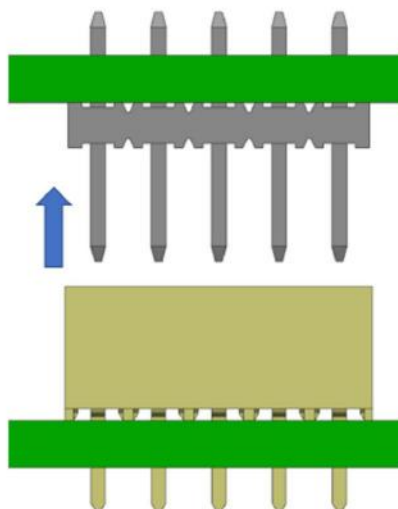
Align the receptacle to the axis of the header and slide the connector assemblies into each other until it bottoms and stops.



❖ Please Find the Board-To-Board distance of the Combination in Respective sales drawings.

Connector unmating

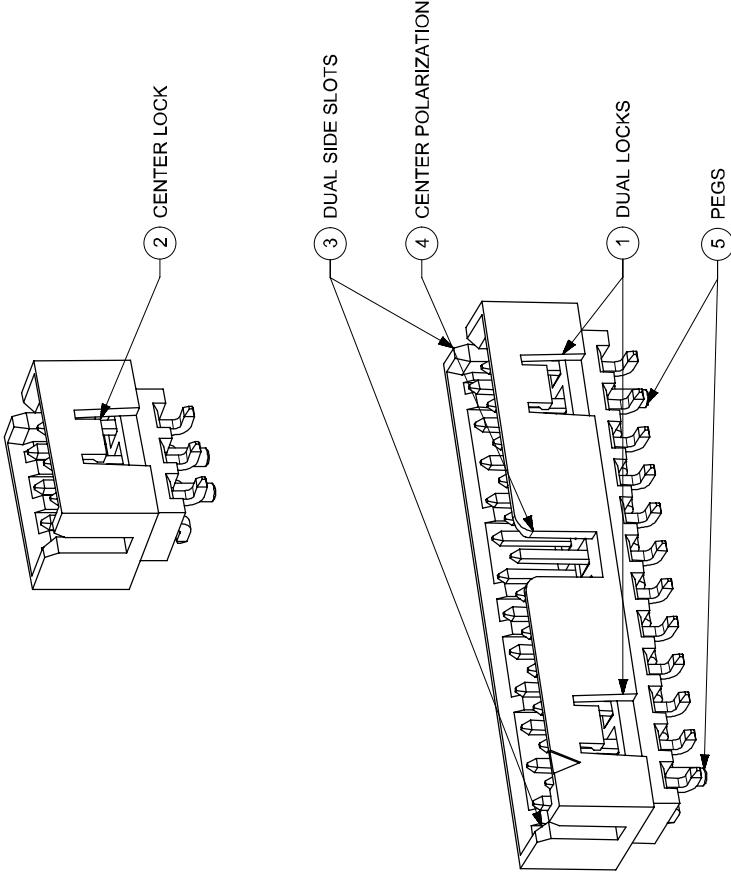
To unmate the connectors, gently pull back each other until they separate from each other.



NOTE: Mating and unmating of the above combination remains same irrespective of their termination style

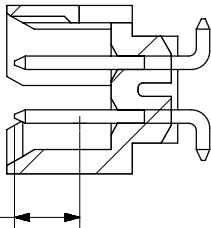
REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A2	EC No: 628516 DATE: 2019 / 11 / 03	APPLICATION SPECIFICATION FOR MILLI-GRID CONNECTOR SYSTEM (WTW/WTB)	13 of 13
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
503940001-AS	Akhil	Manohar	Manohar
TEMPLATE FILENAME: APPLICATION_SPEC[SIZE_A4](V.2).DOC			

FEATURES SELECTION GUIDE



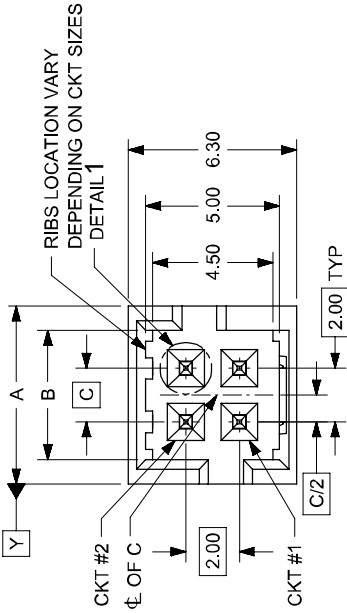
PLATING MEASUREMENT POINT

2.50

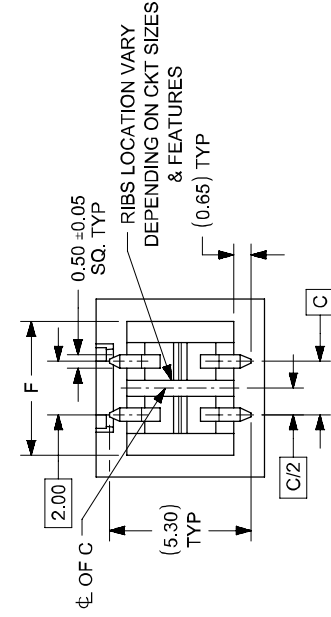
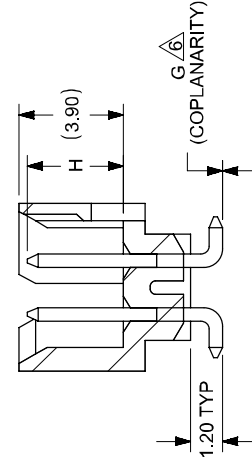
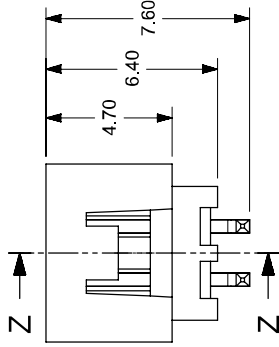
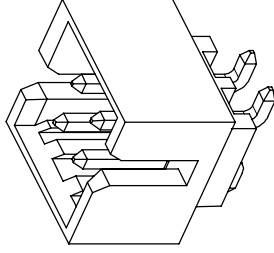
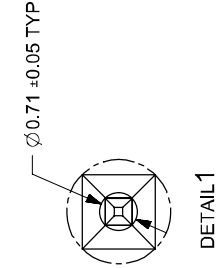


CIRCUIT SIZE	FEATURES					SHEET NO
	FRICTION LOCKS		DUAL SIDE SLOTS (3)	CENTER POLARIZATION (4)	PEGS (5)	
	(1) DUAL	(2) CENTER				
4	N.A	N.A	YES	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	YES	
	N.A	N.A	YES	YES	N.A	
	N.A	YES	YES	N.A	N.A	
8 TO 12	N.A	N.A	YES	YES	YES	6 - 7
	N.A	N.A	YES	YES	N.A	
	N.A	YES	YES	N.A	N.A	
	N.A	YES	YES	N.A	YES	
14 TO 50	YES	N.A	YES	YES	N.A	8 - 11
	YES	N.A	YES	YES	YES	

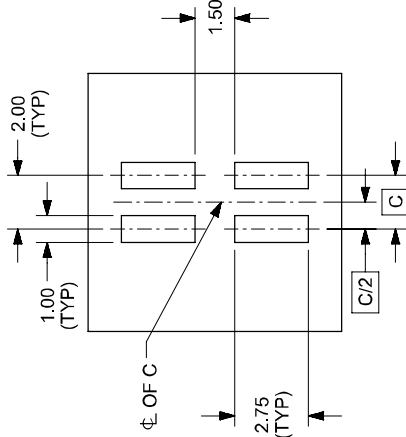
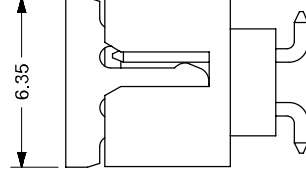
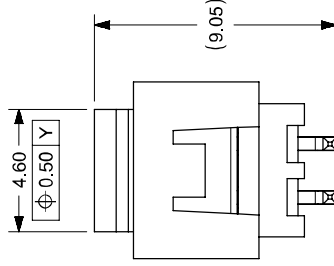
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
2022/07/06		2022/05/12		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE	
APPR: MFAMAKKRISHNA		4 PLACES ±		MM	INCH	DRAWN BY		MM	NTS
		3 PLACES ±		±	±	GMENARLY		2015/05/22	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER
		2 PLACES ± 0.2		±	±	CHKD BY		DATE	
		1 PLACES ±		±	±	CGOH		2015/09/21	
		0 PLACES ±		±	±	APPR BY		DATE	
2022/07/12		2022/07/12		ANGULAR TOL + 3.0		KHLIM		2015/09/22	PRODUCT CUSTOMER DRAWING
APPR: MFAMAKKRISHNA		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER	
CHKD: DANUSA		A3		DRAWING SIZE		87832		SEE TABLE	
EC NO: 713170		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3		DRAWING SIZE		THIRD ANGLE PROJECTION	
2022/07/06		2022/07/12		APPR: MFAMAKKRISHNA		CHKD: DANUSA		EC NO: 713170	
REV		A20		APPR: MFAMAKKRISHNA		CHKD: DANUSA		EC NO: 713170	
2022/07/06		2022/07/12		APPR: MFAMAKKRISHNA		CHKD: DANUSA		EC NO: 713170	
2022/07/12		2022/07/12		APPR: MFAMAKKRISHNA		CHKD: DANUSA		EC NO: 713170	



4 CIRCUITS



SECTION Z-Z



NOTES:

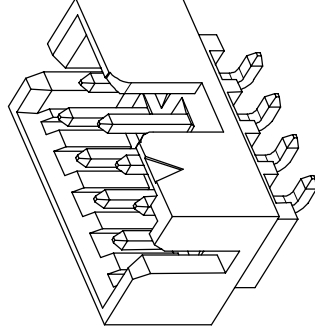
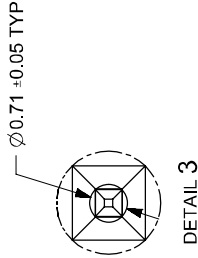
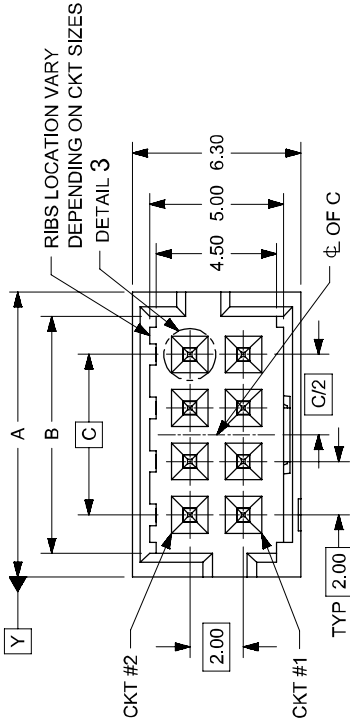
1. MATERIALS:
HOUSING & CAP: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 12
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
6. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
7. BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
8. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

VIEW FOR HEADER WITH CAP

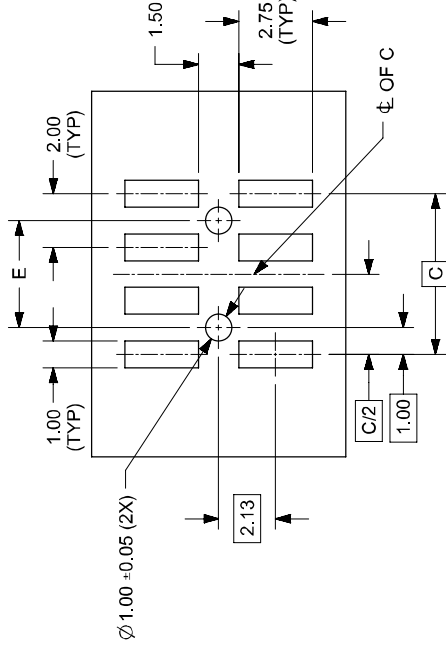
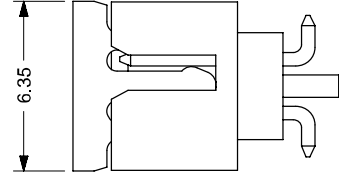
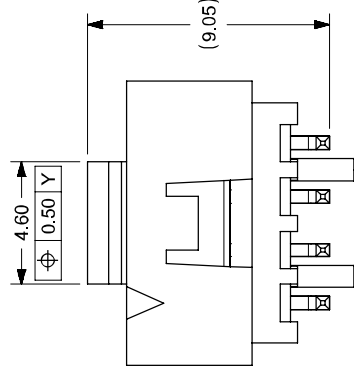
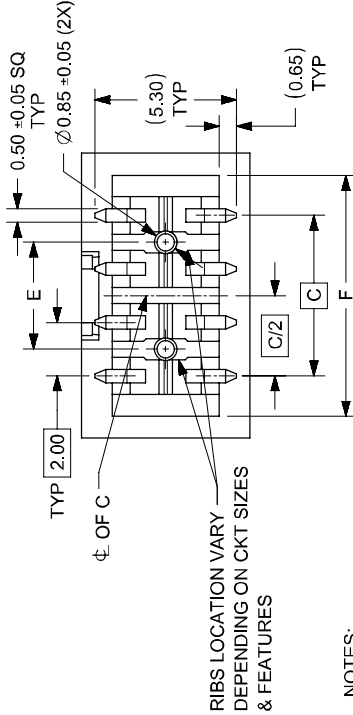
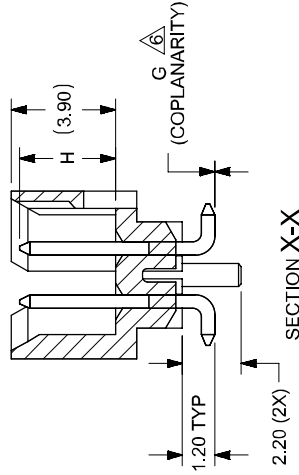
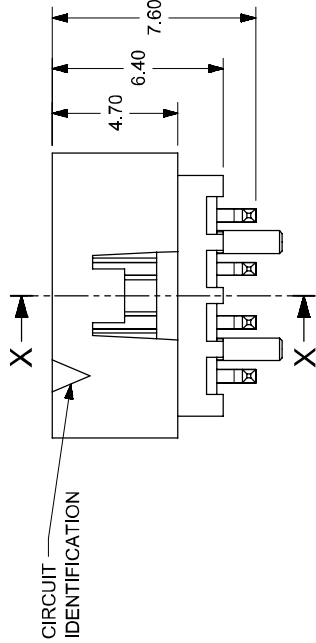
RECOMMENDED PCB LAYOUT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
MM		INCH		MM		MOLEX			
4 PLACES ±		±		DRWN BY		MILLIGRID			
3 PLACES ±		±		GMENARLY		2MM PITCH, SMT VERTICAL SHROUDED HEADER			
2 PLACES ± 0.2		±		CHKD BY		PRODUCT CUSTOMER DRAWING			
1 PLACES ±		±		CGOH		SERIES			
0 PLACES ±		±		APPR BY		87832			
ANGULAR TOL ± 3.0		±		KHLIM		MATERIAL NUMBER			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING SIZE		SEE TABLE			
REV		APPR		DATE		CUSTOMER			
A20		MRANAKRISHNA		2022/07/12		GENERAL MARKET			
CHKD		DANUSA		2022/07/06		DOC TYPE			
DRWN		DANUSA		2022/05/12		PSD			
EC NO		713170		2022/05/12		DOC PART SHEET NUMBER			
REV		MRANAKRISHNA		2022/07/12		2 OF 13			

8 TO 12 CIRCUITS



ISO VIEW OF HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS



NOTES:

1. MATERIALS:
HOUSING & CAP: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 12
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
6. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
A GAUGE SURFACE
7. BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
8. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

VIEW FOR HEADER WITH CAP

RECOMMENDED PCB LAYOUT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE							
			MM	INCH	MM	NTS	DRWN BY	DATE				
4 PLACES ±			±	±			GMENARLY	2015/05/22				
3 PLACES ±			±	±			CHKD BY	DATE				
2 PLACES ±			± 0.2	±			CGOH	2015/09/21				
1 PLACES ±			±	±			APPR BY	DATE				
0 PLACES ±			±	±			KHLIM	2015/09/22				
ANGULAR TOL - 3.0			DRAWING SIZE		THIRD ANGLE PROJECTION							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3									
REV	A20	APPR: MRANAKRISHNA	2022/07/12	CHKD: DANUSA	2022/05/12							
EC NO: 713170			DRWN: DANUSA									
SERIES			MATERIAL NUMBER		PRODUCT CUSTOMER DRAWING		CUSTOMER					
87832			SEE TABLE		MILLIGRID		2MM PITCH, SMT VERTICAL SHROUDED HEADER					
DOCUMENT NUMBER			SD-87832-0001		PSD		001					
DOC TYPE			6 OF 13		1							

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 12

5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES

B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES

C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

6. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE

7. BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY

8. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

RELEASE STATUS

P1

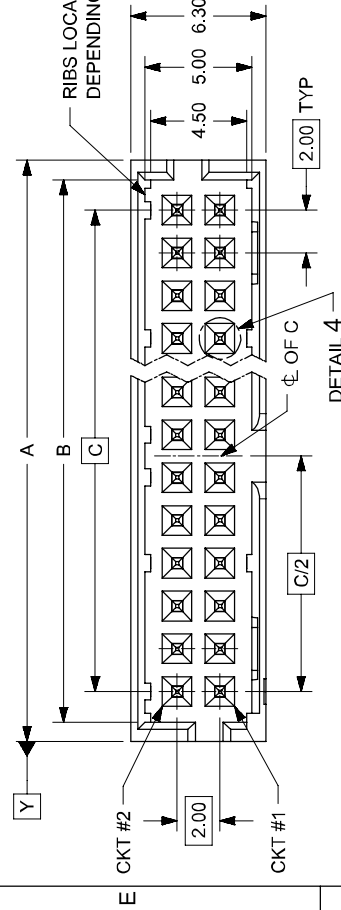
RELEASE DATE

2022/07/12

02:11:32

14 TO 50 CIRCUITS

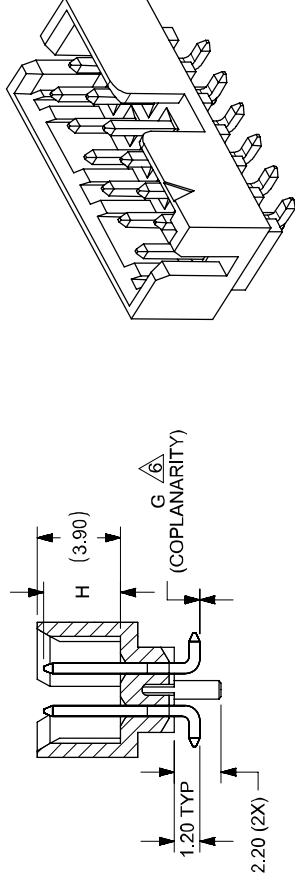
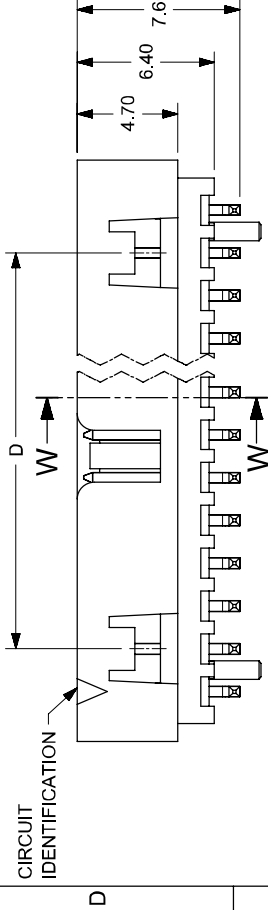
RIBS LOCATIONS VARY
DEPENDING ON CKT SIZES



DETAIL 4

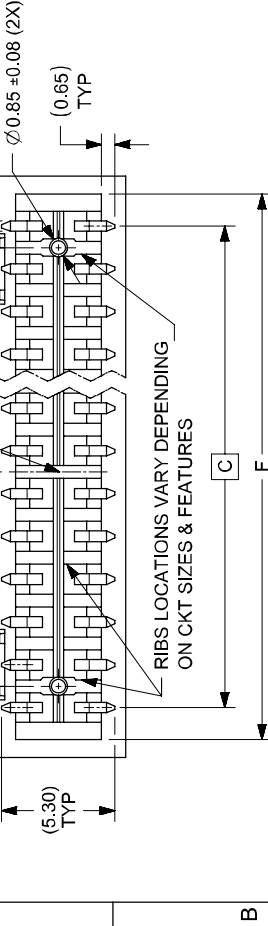
DETAIL 4

VIEW FOR HEADER WITH CAP



SECTION W-W

ISO VIEW OF HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS



NOTES:

1. MATERIALS:
HOUSING & CAP: 30% GF. NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 12
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES
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RECOMMENDED PCB LAYOUT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SCALE		DATE	
GENERAL TOLERANCES (UNLESS SPECIFIED)		MM	NTS	DATE	
4 PLACES ±		INCH		DATE	
3 PLACES ±				DATE	
2 PLACES ± 0.2				DATE	
1 PLACES ±				DATE	
0 PLACES ±				DATE	
ANGULAR TOL. ± 3.0		DRAWING SIZE		THIRD ANGLE PROJECTION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3			
REV	A20	CH'D	2022/07/06	2022/07/12	2022/07/12
DRWN	DANUSA	APPR	MRANAKRISHNA		
EC NO	713170				
SERIES		MATERIAL NUMBER		PRODUCT CUSTOMER DRAWING	
87832		SEE TABLE		CUSTOMER	
DOCUMENT NUMBER		SD-87832-0001		GENERAL MARKET	
DOC TYPE		PSD		DOC PART SHEET NUMBER	
001		001		8 OF 13	

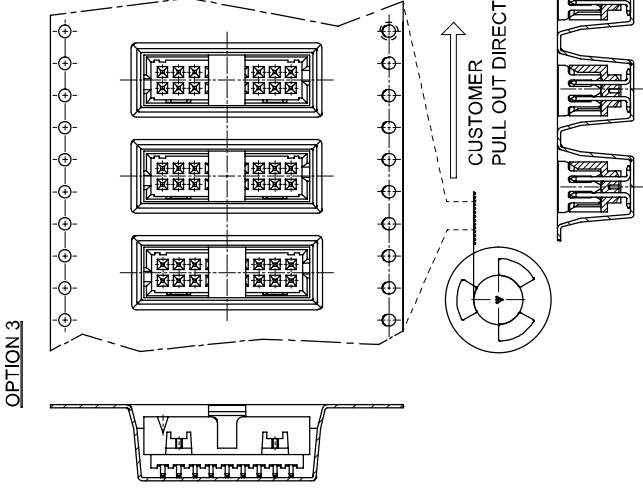
molex

MILLIGRID
2MM PITCH, SMT VERTICAL SHROUDED HEADER

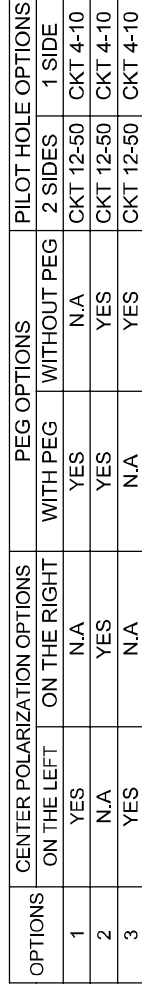
7. BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY

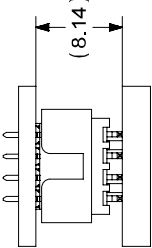
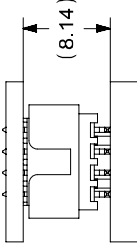
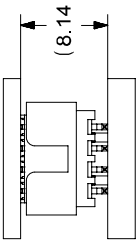
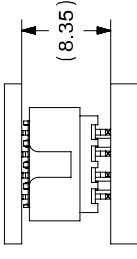
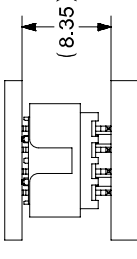
8. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

OPTION 3



TAPE AND REEL PACKAGING	PK-87832-3001
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR:	
87832-0411	
87832-0824	
87832-1072	
87832-1412	PK-87831-002

[illegible]

10										9										8										7										6										5										4										3										2										1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			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