

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0930510029](#)  
**Status:** **Active**  
**Overview:** [rast\\_25\\_connector\\_system](#)  
**Description:** 5.00mm (.196") Pitch Appli-Mate RAST 2.5 Female Connector, Glow Wire Compliant, 2 Circuits, Natural, Open Endwalls, All Positions Removed

**Documents:**  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-99020-0040 \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family IDT and Solder Connectors  
Series [93051](#)  
Crimp Quality Equipment Yes  
Overview [rast\\_25\\_connector\\_system](#)  
Product Name RAST 2.5  
Use With RAST Standard Interface

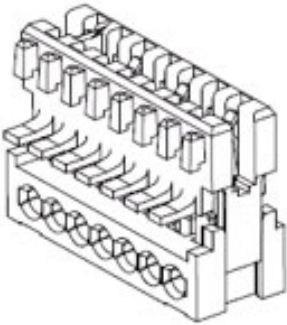
**Physical**

Circuits (Loaded) 2  
Circuits (maximum) 2  
Color - Resin Natural  
Durability (mating cycles max) 10  
Flammability 94V-2  
Gender Female  
Glow-Wire Compliant Yes  
Lock to Mating Part Yes  
Material - Metal Phosphor Bronze  
Material - Plating Mating Tin  
Material - Plating Termination Tin  
Material - Resin Polyester  
Number of Rows 1  
Packaging Type Tray  
Panel Mount No  
Pitch - Mating Interface (in) 0.198 In  
Pitch - Mating Interface (mm) 5.00 mm  
Pitch - Term. Interface (in) 0.198 In  
Pitch - Term. Interface (mm) 5.00 mm  
Plating min: Mating (µin) 40  
Plating min: Mating (µm) 1.00  
Plating min: Termination (µin) 40  
Plating min: Termination (µm) 1.00  
Polarized to Mating Part No  
Temperature Range - Operating -20C TO +120C  
Termination Interface: Style IDT or Pierce  
Wire Size AWG 22, 24

**Electrical**

Current - Maximum per Contact 2A  
Voltage - Maximum 250V AC

**Material Info**



Series

image - Reference only

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**China RoHS**



**Need more information on product environmental compliance?**  
  
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)  
  
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[93051Series](#)

**Mates With**  
Appli-Mate RAST 2.5 Header [93071](#)

**Application Tooling | FAQ**  
*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*  
**Global**  

| Description                                                           | Product #                  |
|-----------------------------------------------------------------------|----------------------------|
| RAST 2.5 Semi-Automatic Terminator Machine For Appli-Mate™ Connectors | <a href="#">0623006200</a> |

**Reference - Drawing Numbers**

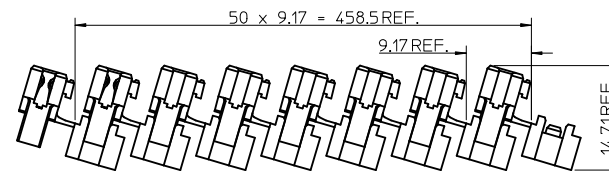
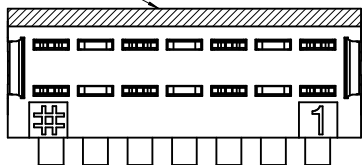
|                           |               |
|---------------------------|---------------|
| Application Specification | AS-99033-0008 |
| Packaging Specification   | PK-90871-001  |
| Product Specification     | PS-99020-0040 |
| Sales Drawing             | SD-93051-001  |

This document was generated on 05/28/2010

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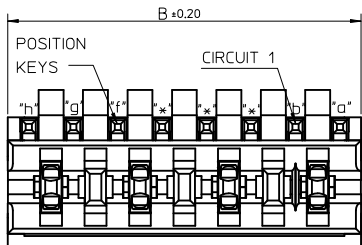
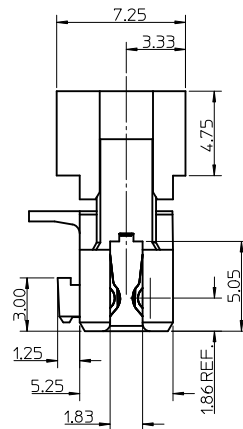
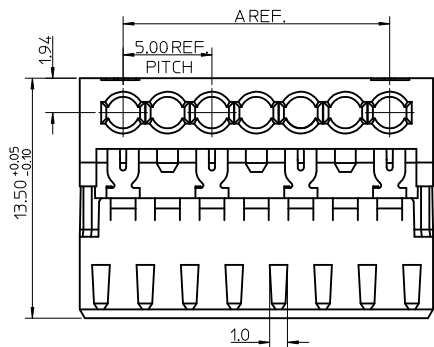
13 12 11 10 9 8 7 6 5 4 3 2 1

POSITION OF  
COLOUR STRIPE  
(see note 3)



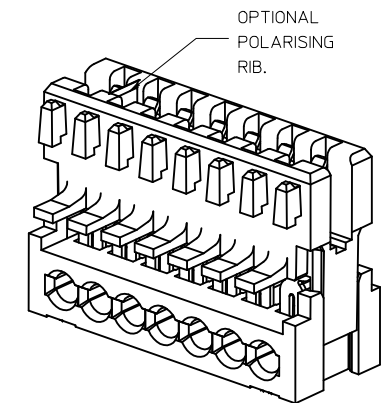
SHIPPING ARRANGEMENT  
SCALE 2:1

| CCT | "A"  | "B"    |
|-----|------|--------|
| 2   | 5.0  | 9.875  |
| 3   | 10.0 | 14.875 |
| 4   | 15.0 | 19.875 |
| 5   | 20.0 | 24.875 |
| 6   | 25.0 | 29.875 |
| 7   | 30.0 | 34.875 |

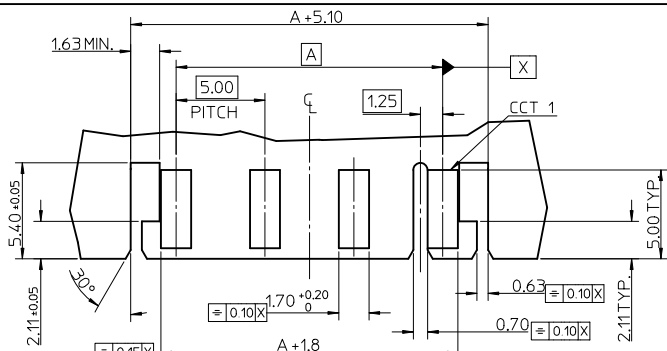


NOTES:

- REFER TO PRODUCT SPECIFICATION: PS-99020-0040.
- MATERIAL: HOUSING - POLYESTER (PBT)  
UL94-V2, COLOUR: NATURAL.  
TERMINAL: PHOSPHOR BRONZE 0.30 REF. THICK - PLATING  
HOT TIN DIP.
- COLOUR STRIPE IS OPTIONAL. AVAILABLE IN THE FOLLOWING  
COLOURS: RED, GREEN, BLUE.  
(BLACK SIGNIFIES CUSTOMER SPECIFIC CONFIGURATION).
- REFER TO PACKAGING SPEC (PK-90871-001)
- REFER TO APPLICATION SPEC (AS-99033-0008)
- FOR CIRCUIT SIZES LARGER THAN 7CCT - CONTACT ENG. DEPT.



OPEN END WALLS OPTION.



- PCB LAYOUT FOR 4CCT (5mm) CONNECTOR  
(WITH OPTIONAL POSITIONAL RIB SLOT BETWEEN CCT 1 & 2)
- RECOMMENDED PCB THICKNESS 1.5 ± 0.14

|                                                                                                                             |                               |                                                                                                                                                                                                                                   |                                                                                                                                                                           |  |                              |                        |                           |                                                                                                                                  |  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| ADDED PART NOS<br>EC NO: E2010-0280<br>DRAWN: TITOURISH 2010/02/02<br>CHKD: BRUTTLE 2007/07/10<br>APPR: BMAGUIRE 2010/04/01 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± 0.05 ± ---<br>2 PLACES ± 0.10 ± ---<br>1 PLACE ± 0.2 ± ---<br>ANGULAR ± 1/2°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY DATE<br>TITOURISH 2007/07/09<br>CHECKED BY DATE<br>NMCNAMARA 2007/07/10<br>APPROVED BY DATE<br>BMAGUIRE 2010/03/30<br>MATERIAL NO. |  | SCALE<br>5:1                 | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION | APPLI-MATE 2.5 FEMALE<br>G.W.T. 750 VERSION<br>5MM PITCH                                                                         |  |
|                                                                                                                             |                               |                                                                                                                                                                                                                                   | SEE CHART                                                                                                                                                                 |  | DOCUMENT NO.<br>SD-93051-001 | SHEET NO.<br>1 OF 2    |                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |

12 11 10 9 8 7 6 5 4 3 2 1

| 2 CIRCUIT      |                       |                            |                      |                     |              |
|----------------|-----------------------|----------------------------|----------------------|---------------------|--------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | ENDWALLS             | POLARIZING RIB      | COLOR STRIPE |
| 93051-0001     | NONE                  |                            | OPEN                 | NONE                | RED          |
| 93051-0002     | NONE                  |                            | OPEN                 | NONE                | NONE         |
| 93051-0003     | a                     |                            | OPEN                 | NONE                | NONE         |
| 93051-0004     | b                     |                            | OPEN                 | NONE                | BLUE         |
| 93051-0005     | c                     |                            | OPEN                 | NONE                | NONE         |
| 93051-0006     | c                     |                            | OPEN                 | NONE                | BLACK        |
| 93051-0007     | b d                   |                            | OPEN                 | NONE                | BLUE         |
| 93051-0008     | b c                   |                            | OPEN                 | NONE                | BLUE         |
| 93051-0012     | a b                   |                            | OPEN                 | NONE                | NONE         |
| 93051-0013     | b d                   |                            | OPEN                 | NONE                | NONE         |
| 93051-0014     | b                     |                            | OPEN                 | NONE                | NONE         |
| 93051-0015     | b c                   |                            | OPEN                 | NONE                | NONE         |
| 93051-0017     | a d                   |                            | OPEN                 | NONE                | NONE         |
| 93051-0018     | a c                   |                            | OPEN                 | NONE                | NONE         |
| 93051-0019     | a d                   |                            | OPEN                 | BETWEEN HSG CCT 1&2 | NONE         |
| 93051-0020     | d                     |                            | OPEN                 | NONE                | BLUE         |
| 93051-0021     | c d                   |                            | OPEN                 | NONE                | RED          |
| 93051-0024     | a d                   |                            | OPEN                 | NONE                | BLUE         |
| 93051-0025     | a b                   |                            | OPEN                 | NONE                | BLUE         |
| 93051-0026     | c                     |                            | 1ST OPEN Last Closed | NONE                | NONE         |
| 93051-0027     | a c d                 |                            | OPEN                 | NONE                | NONE         |
| 93051-0028     | d                     |                            | OPEN                 | NONE                | NONE         |
| 93051-0029     | ALL                   |                            | OPEN                 | NONE                | NONE         |
| 93051-0030     | c d                   |                            | OPEN                 | NONE                | NONE         |
| 93051-0031     | ALL                   |                            | OPEN                 | NONE                | BLACK        |
| 93051-0032     | a b c                 |                            | OPEN                 | NONE                | BLUE         |
| 93051-0033     | a c                   |                            | 1ST OPEN Last Closed | NONE                | NONE         |

| 3 CIRCUIT      |                       |                            |          |                |              |
|----------------|-----------------------|----------------------------|----------|----------------|--------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | ENDWALLS | POLARIZING RIB | COLOR STRIPE |
| 93051-1001     | NONE                  |                            | OPEN     | NONE           | NONE         |
| 93051-1002     | c d f                 |                            | OPEN     | NONE           | NONE         |
| 93051-1003     | a d e                 |                            | OPEN     | NONE           | NONE         |
| 93051-1004     | d e f                 |                            | OPEN     | NONE           | NONE         |
| 93051-1005     | b c d                 |                            | OPEN     | NONE           | NONE         |
| 93051-1006     | a b d                 |                            | OPEN     | NONE           | NONE         |
| 93051-1007     | a d e f               |                            | OPEN     | NONE           | NONE         |
| 93051-1008     | b c e                 |                            | OPEN     | NONE           | NONE         |
| 93051-1009     | a c d                 |                            | OPEN     | NONE           | NONE         |

| 4 CIRCUIT      |                       |                            |          |                |              |
|----------------|-----------------------|----------------------------|----------|----------------|--------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | ENDWALLS | POLARIZING RIB | COLOR STRIPE |
| 93051-2001     | NONE                  |                            | OPEN     | NONE           | NONE         |
| 93051-2002     | ALL                   |                            | OPEN     | NONE           | NONE         |
| 93051-2003     | b c d f               |                            | OPEN     | NONE           | NONE         |
| 93051-2004     | d e f g               |                            | OPEN     | NONE           | NONE         |
| 93051-2005     | a b e f h             |                            | OPEN     | NONE           | NONE         |
| 93051-2006     | d e f g h             |                            | OPEN     | NONE           | NONE         |
| 93051-2007     | c d                   |                            | OPEN     | NONE           | NONE         |
| 93051-2008     | b c d e               |                            | OPEN     | NONE           | NONE         |

NOTES  
 1. + DENOTES TERMINAL VOIDED POSITION  
 • DENOTES TERMINAL LOADED POSITION  
 | DENOTES POLARIZING RIB POSITION

| 5 CIRCUIT      |                       |                            |          |                |              |
|----------------|-----------------------|----------------------------|----------|----------------|--------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | ENDWALLS | POLARIZING RIB | COLOR STRIPE |
| 93051-3001     | NONE                  |                            | OPEN     | NONE           | NONE         |
| 93051-3002     | c e f h               |                            | OPEN     | NONE           | NONE         |
| 93051-3003     | b d f g i             |                            | OPEN     | NONE           | NONE         |
| 93051-3004     | c e g h               |                            | OPEN     | NONE           | NONE         |

| 6 CIRCUIT      |                       |                            |          |                |              |
|----------------|-----------------------|----------------------------|----------|----------------|--------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | ENDWALLS | POLARIZING RIB | COLOR STRIPE |
| 93051-4001     | NONE                  |                            | OPEN     | NONE           | NONE         |
| 93051-4002     | d e f g h i           |                            | OPEN     | NONE           | NONE         |
| 93051-4003     | c d e h i j           |                            | OPEN     | NONE           | NONE         |
| 93051-4004     | a b e f g h k l       |                            | OPEN     | NONE           | NONE         |
| 93051-4005     | a b e f h i k         |                            | OPEN     | NONE           | NONE         |
| 93051-4006     | b c f g j k           |                            | OPEN     | NONE           | NONE         |
| 93051-4007     | a d e f g h i l       |                            | OPEN     | NONE           | NONE         |

| 7 CIRCUIT      |                       |                            |          |                |              |
|----------------|-----------------------|----------------------------|----------|----------------|--------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | ENDWALLS | POLARIZING RIB | COLOR STRIPE |
| 93051-5001     | NONE                  |                            | OPEN     | NONE           | NONE         |
| 93051-5002     | c d g h i j k         |                            | OPEN     | NONE           | NONE         |

|                                                                                                               |                                                                                                                               |                                                                                                                                                    |                                                                                                                                                     |                                                              |                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>SEE SHEET 1</b><br>ECN: E209-0280<br>REV: 1<br>DATE: 2010/03/30<br>CHKD BY: J<br>APPR: BMAGUIRE 2010/04/01 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0                                                                                          | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>4 PLACES ±--- mm INCH<br>3 PLACES ±0.05 ±---<br>2 PLACES ±0.10 ±---<br>1 PLACE ±0.2 ±---<br>ANGULAR ±1/2° | DIMENSION STYLE<br><b>MM ONLY</b><br>DRAWN BY: ITTOURISH DATE: 2007/07/09<br>CHECKED BY: DATE: 2007/07/10<br>APPROVED BY: BMAGUIRE DATE: 2010/03/30 | SCALE: 1:1<br>DESIGN UNITS: METRIC<br>THIRD ANGLE PROJECTION | TITLE: APPLI-MATE 2.5 FEMALE G.W.T. 750 VERSION 5MM PITCH<br>MOLEX INCORPORATED<br>MATERIAL NO. SD-93051-001<br>DOCUMENT NO. 2 OF 2 |
|                                                                                                               | DRAFT WHERE APPLICABLE SEE CHARTS<br>MUST REMAIN WITHIN DIMENSIONS                                                            |                                                                                                                                                    |                                                                                                                                                     |                                                              |                                                                                                                                     |
|                                                                                                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                                                                    |                                                                                                                                                     |                                                              |                                                                                                                                     |
|                                                                                                               | SHEET NO. 2 OF 2                                                                                                              |                                                                                                                                                    |                                                                                                                                                     |                                                              |                                                                                                                                     |