

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0917173001](#)  
**Status:** **Active**  
**Overview:** [rast\\_25\\_connector\\_system](#)  
**Description:** 5.00mm (.197") Pitch Appli-Mate RAST 2.5 IDT Housing, Direct/Indirect, Female, 5 Circuits, Fully Coded

**Documents:**

[3D Model](#) [Product Specification PS-99020-0040 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980

**General**

Product Family IDT and Solder Connectors  
 Series [91717](#)  
 Crimp Quality Equipment Yes  
 Overview [rast\\_25\\_connector\\_system](#)  
 Product Name RAST 2.5  
 Use With RAST standard interface

**Physical**

Circuits (Loaded) 5  
 Circuits (maximum) 5  
 Color - Resin Natural (White)  
 Durability (mating cycles max) 10  
 Flammability 94V-0  
 Gender Female  
 Glow-Wire Compliant No  
 Lock to Mating Part None  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Material - Resin Nylon  
 Number of Rows 1  
 Packaging Type Tray  
 Panel Mount No  
 Pitch - Mating Interface (in) 0.197 In  
 Pitch - Mating Interface (mm) 5.00 mm  
 Pitch - Term. Interface (in) 0.197 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 Yes  
 Stackable 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**

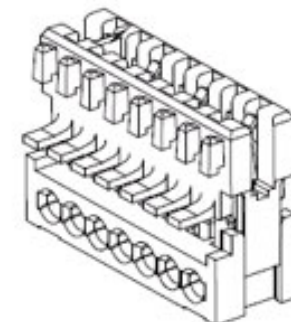


image - Reference only

Series

**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**

[91717Series](#)

**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> |
| Manual Arbor Press, RAST 2.5  | <a href="#">0622017400</a> |

**Reference - Drawing Numbers**

Application Specification

AS-99033-0008

Product Specification

PS-99020-0040

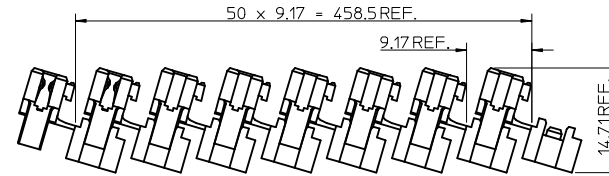
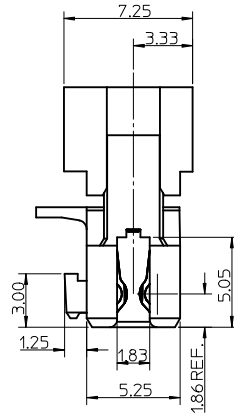
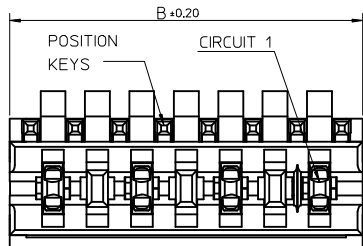
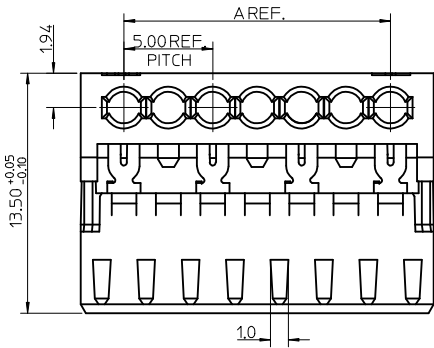
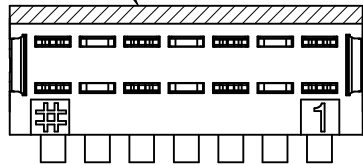
Sales Drawing

SD-91717-001

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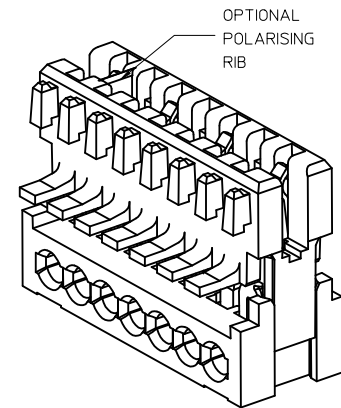
POSITION OF COLOUR STRIPE (see note 3)



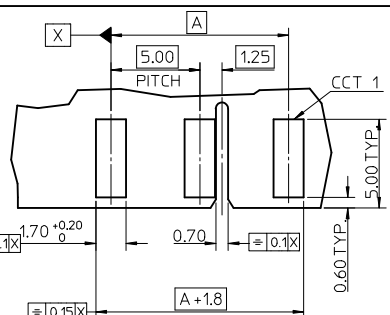
SHIPPING ARRANGEMENT SCALE 2:1

| 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 |
| 8   | 35.0 | 39.875 |
| 9   | 40.0 | 44.875 |
| 10  | 45.0 | 49.875 |

- NOTES:
- REFER TO PRODUCT SPECIFICATION: PS-99020-0040.
  - MATERIAL: HOUSING - NYLON PA6 UL94-V0, COLOUR: NATURAL (WHITE).  
TERMINAL: PHOSPHOR BRONZE 0.30 REF. THICK - PLATING HOT TIN DIP.
  - COLOUR STRIPE IS OPTIONAL, AVAILABLE IN THE FOLLOWING COLOURS: BLACK, RED, GREEN, BLUE
  - REFER TO PACKAGING SPEC (PK-90871-001).
  - REFER TO APPLICATION SPEC (AS-99033-0008)



SEE SUBSEQUENT SHEETS FOR RELEVANT PART NUMBERS.



- RECOMMENDED PCB LAYOUT FOR 3CCT (5MM PITCH) CONNECTOR (OPTIONAL POSITIONAL RIB SLOT ALSO SHOWN)

- RECOMMENDED PCB THICKNESS 1.5±0.14mm

ADDED P/N'S  
EC NO: E2009-0568  
DRAWN: TIOURISH 2009/05/12  
CHKD: BRUTTLE 2009/05/12  
APPR: BMAGUIRE 2009/05/12

QUALITY SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          | mm     | INCH  |
|----------|--------|-------|
| 4 PLACES | ± ---  | ± --- |
| 3 PLACES | ± ---  | ± --- |
| 2 PLACES | ± 0.10 | ± --- |
| 1 PLACE  | ± 0.2  | ± --- |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

| DRAWN BY    | DATE       |
|-------------|------------|
| NMCNAMAR    | 2004/02/12 |
| CHECKED BY  | DATE       |
| JDENNEHY    | 2004/02/13 |
| APPROVED BY | DATE       |
| BMAGUIRE    | 2004/02/16 |

MATERIAL NO. SEE SHEET 2&3

SCALE 5:1  
DESIGN UNITS METRIC  
THIRD ANGLE PROJECTION

TITLE  
APPLI-MATE 2.5 FEMALE  
5MM TERMINAL PITCH  
(MATL: NYLON PA6)

MOLEX INCORPORATED

DOCUMENT NO. SD-91717-001  
SHEET NO. 1 OF 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| 2 CIRCUIT      |                       |                            |                     |               |
|----------------|-----------------------|----------------------------|---------------------|---------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB      | COLOUR STRIPE |
| 91717-0002     | NONE                  |                            | NONE                | NONE          |
| 91717-0003     | a                     |                            | NONE                | NONE          |
| 91717-0004     | b                     |                            | NONE                | NONE          |
| 91717-0005     | c                     |                            | NONE                | NONE          |
| 91717-0006     | d                     |                            | NONE                | NONE          |
| 91717-0007     | b d                   |                            | NONE                | NONE          |
| 91717-0008     | a c                   |                            | NONE                | NONE          |
| 91717-0009     | a d                   |                            | NONE                | NONE          |
| 91717-0010     | a b                   |                            | NONE                | NONE          |
| 91717-0011     | b c                   |                            | NONE                | NONE          |
| 91717-0012     | c d                   |                            | NONE                | NONE          |
| 91717-0014     | b c d                 |                            | NONE                | NONE          |
| 91717-0013     | b c                   |                            | NONE                | RED           |
| 91717-0015     | b c d                 |                            | NONE                | BLUE          |
| 91717-0016     | c d                   |                            | NONE                | BLUE          |
| 91717-0017     | NONE                  |                            | BETWEEN HSG CKT 2&3 | NONE          |
| 91717-0018     | NONE                  |                            | BETWEEN HSG CKT 1&2 | NONE          |
| 91717-0019     | NONE                  |                            | NONE                | BLUE          |
| 91717-0020     | a c                   |                            | NONE                | BLUE          |
| 91717-0021     | b c                   |                            | NONE                | GREEN         |
| 91717-0022     | a d                   |                            | NONE                | GREEN         |
| 91717-0023     | NONE                  |                            | NONE                | GREEN         |
| 91717-0024     | d                     |                            | BETWEEN HSG CKT 1&2 | RED           |

| 2 CIRCUIT      |                       |                            |                     |               |
|----------------|-----------------------|----------------------------|---------------------|---------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB      | COLOUR STRIPE |
| 91717-0025     | a c                   |                            | BETWEEN HSG CKT 1&2 | RED           |
| 91717-0026     | a                     |                            | BETWEEN HSG CKT 2&3 | NONE          |
| 91717-0027     | NONE                  |                            | BETWEEN HSG CKT 2&3 | RED           |
| 91717-0028     | a                     |                            | NONE                | RED           |
| 91717-0029     | NONE                  |                            | NONE                | RED           |
| 91717-0030     | b c d                 |                            | BETWEEN HSG CKT 1&2 | RED           |
| 91717-0031     | a                     |                            | BETWEEN HSG CKT 2&3 | RED           |
| 91717-0032     | b                     |                            | NONE                | RED           |
| 91717-0033     | d                     |                            | NONE                | YELLOW        |
| 91717-0035     | b d                   |                            | NONE                | GREEN         |
| 91717-0036     | NONE                  |                            | BETWEEN HSG CKT 1&2 | RED           |
| 91717-0037     | b d                   |                            | BETWEEN HSG CKT 1&2 | RED           |
| 91717-0038     | a c                   |                            | BETWEEN HSG CKT 2&3 | NONE          |
| 91717-0039     | a b d                 |                            | NONE                | NONE          |
| 91717-0040     | a                     |                            | NONE                | BLUE          |

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

| 3 CIRCUIT      |                       |                            |                     |               |
|----------------|-----------------------|----------------------------|---------------------|---------------|
| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB      | COLOUR STRIPE |
| 91717-1001     | NONE                  |                            | NONE                | NONE          |
| 91717-1002     | b                     |                            | NONE                | NONE          |
| 91717-1003     | c                     |                            | NONE                | NONE          |
| 91717-1004     | c d e                 |                            | NONE                | NONE          |
| 91717-1005     | NONE                  |                            | BETWEEN HSG CKT 4&5 | NONE          |
| 91717-1007     | NONE                  |                            | BETWEEN HSG CKT 1&2 | NONE          |
| 91717-1008     | d e f                 |                            | NONE                | RED           |
| 91717-1009     | a b c                 |                            | NONE                | RED           |
| 91717-1010     | a c d e               |                            | NONE                | NONE          |
| 91717-1011     | a c d e               |                            | NONE                | BLUE          |
| 91717-1012     | b c d e               |                            | NONE                | NONE          |
| 91717-1013     | a c e                 |                            | NONE                | NONE          |

|  |   |   |  |  |   |
|--|---|---|--|--|---|
| SEE SHEET 1<br>EC NO: E2009-0568<br>DRAWN: TOUR SH<br>CHKD: BRUTLE<br>APPR: BMAGUIRE<br>2009/05/12<br>2009/05/12<br>2009/05/12 | QUALITY SYMBOLS<br>= 0.25<br>= 0.125  | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.10 ± ---<br>1 PLACE ± 0.2 ± ---<br>ANGULAR ± 1/2° | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY DATE<br>NMCNAMAR 2004/02/12<br>CHECKED BY DATE<br>J DENNEHY 2004/02/13<br>APPROVED BY DATE<br>BMAGUIRE 2004/02/16 | SCALE<br>1:1<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION | TITLE<br>APPLI-MATE 2.5 FEMALE<br>5MM TERMINAL PITCH<br>(MATL: NYLON PA6) |
|  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |   | SEE CHARTS<br>MATERIAL NO.<br>SD-91717-001   | MOLEX INCORPORATED<br>DOCUMENT NO.                               | SHEET NO.<br>2 OF 3   |
|  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |   |  |  |   |
|  | SIZE 1  |   |  |  |   |

### 4 CIRCUIT

| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|-----------------------|----------------------------|----------------|---------------|
| 91717-2001     | NONE                  |                            | NONE           | NONE          |
| 91717-2002     | a                     |                            | NONE           | NONE          |
| 91717-2003     | b                     |                            | NONE           | NONE          |
| 91717-2004     | d f                   |                            | NONE           | NONE          |
| 91717-2005     | a e g                 |                            | NONE           | RED           |
| 91717-2006     | c e                   |                            | NONE           | NONE          |
| 91717-2007     | a b d e g             |                            | NONE           | NONE          |

### 7 CIRCUIT

| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|-----------------------|----------------------------|----------------|---------------|
| 91717-5001     | a c e g i k m         |                            | NONE           | NONE          |

### 5 CIRCUIT

| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|-----------------------|----------------------------|----------------|---------------|
| 91717-3001     | NONE                  |                            | NONE           | NONE          |
| 91717-3002     | b c g h i             |                            | NONE           | GREEN         |

### 8 CIRCUIT

| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|-----------------------|----------------------------|----------------|---------------|
| 91717-6001     | NONE                  |                            | NONE           | NONE          |

### 6 CIRCUIT

| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|-----------------------|----------------------------|----------------|---------------|
| 91717-4001     | NONE                  |                            | NONE           | NONE          |
| 91717-4002     | b c d e f g h i k     |                            | NONE           | NONE          |

### 9 CIRCUIT

| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|-----------------------|----------------------------|----------------|---------------|
| 91717-7001     | NONE                  |                            | NONE           | NONE          |

### 10 CIRCUIT

| MOLEX PART NO. | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|-----------------------|----------------------------|----------------|---------------|
| 91717-8001     | NONE                  |                            | NONE           | NONE          |

- NOTES
- + DENOTES TERMINAL VOIDED POSITION
    - DENOTES TERMINAL LOADED POSITION
    - | DENOTES POLARIZING RIB POSITION
  - A - APPLICABLE CABLE: UL 1569, 22 AWG, 7 Strand

|   |  |   |   |                              |   |                        |                     |
|---|--|---|---|------------------------------|---|------------------------|---------------------|
| <b>SEE SHEET 1</b><br>EC NO: E2009-0568<br>DRAWN BY: TOUR SH<br>CHKD BY: BRUTLE<br>APPR: BMAGUIRE<br>2009/05/12<br>2009/05/12<br>2009/05/12 | QUALITY SYMBOLS<br>▽=0<br>▽=0                        | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ±--- ±---<br>3 PLACES ±--- ±---<br>2 PLACES ±0.10 ±---<br>1 PLACE ±0.2 ±---<br>ANGULAR ±1/2° | DIMENSION STYLE<br><b>MM ONLY</b>         | SCALE<br>1:1                 | DESIGN UNITS<br>METRIC  | THIRD ANGLE PROJECTION |                     |
|   | DRAWN BY: NMCNAMAR<br>DATE: 2004/02/12               | CHECKED BY: JDENNEHY<br>DATE: 2004/02/13  | APPROVED BY: BMAGUIRE<br>DATE: 2004/02/16 | MATERIAL NO.<br>DOCUMENT NO. | TITLE<br><b>APPLI-MATE 2.5 FEMALE<br/>                 5MM TERMINAL PITCH<br/>                 (MATL: NYLON PA6)</b>          | MOLEX INCORPORATED     | SHEET NO.<br>3 OF 3 |
|   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   |   | SEE CHARTS                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                     |
|   |  |   |   | SD-91717-001                 |   |                        |                     |