

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0917162002

Status:

Active

Overview:

[rast\\_25\\_connector\\_system](#)

Description:

2.50mm (.098") Pitch Appli-Mate RAST 2.5 IDT Housing, Direct/Indirect, Female, 7 Circuits, Position Keys All Removed

Documents:

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

General

|                         |                                          |
|-------------------------|------------------------------------------|
| Product Family          | IDT and Solder Connectors                |
| Series                  | <a href="#">91716</a>                    |
| Crimp Quality Equipment | Yes                                      |
| Overview                | <a href="#">rast_25_connector_system</a> |
| Product Name            | RAST 2.5                                 |
| Use With                | RAST standard interface                  |

Physical

|                                |                 |
|--------------------------------|-----------------|
| Circuits (Loaded)              | 7               |
| Circuits (maximum)             | 7               |
| 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)  | 0.098 In        |
| Pitch - Mating Interface (mm)  | 2.50 mm         |
| Pitch - Term. Interface (in)   | 0.098 In        |
| Pitch - Term. Interface (mm)   | 2.50 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  | -20°C to +85°C  |
| Termination Interface: Style   | IDT or Pierce   |
| Wire Size AWG                  | 22, 24          |

Electrical

|                               |        |
|-------------------------------|--------|
| Current - Maximum per Contact | 2A, 4A |
| Voltage - Maximum             | 32V AC |

Material Info

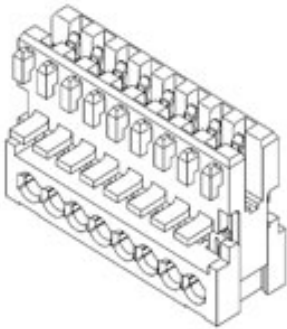


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

[91716Series](#)

Mates With

Appli-Mate RAST 2.5 Header [93070](#)

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**

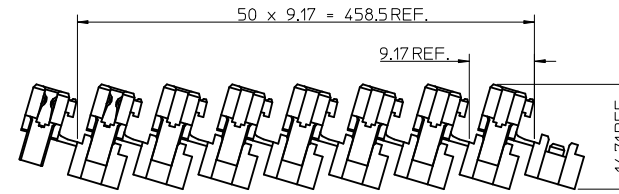
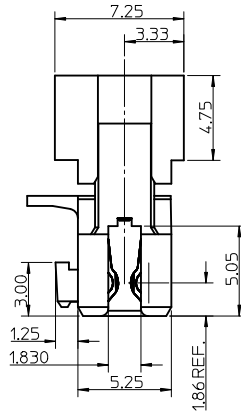
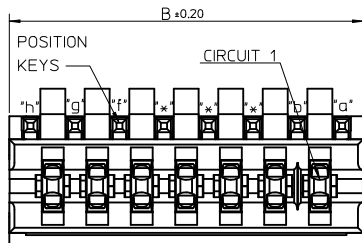
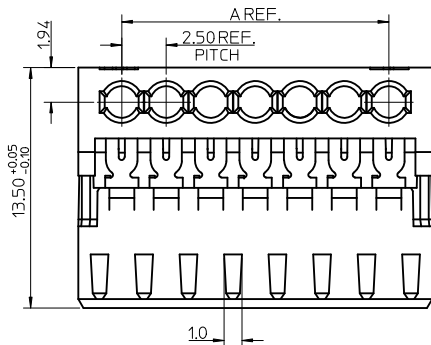
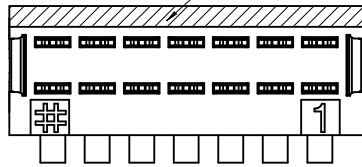
Application Specification  
Sales Drawing

AS-99033-0008  
SD-91716-001

This document was generated on 06/08/2010

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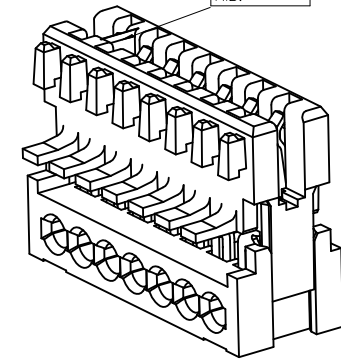
SURFACE FOR  
COLOUR STRIPE  
(see note 3)



SHIPPING ARRANGEMENT  
SCALE 2:1

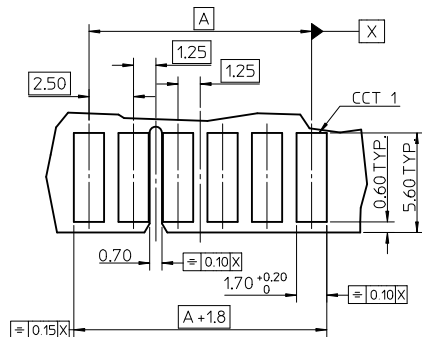
| CCT | *A*  | *B*    |
|-----|------|--------|
| 3   | 5.0  | 9.875  |
| 4   | 7.5  | 12.375 |
| 5   | 10.0 | 14.875 |
| 6   | 12.5 | 17.375 |
| 7   | 15.0 | 19.875 |
| 8   | 17.5 | 22.375 |
| 9   | 20.0 | 24.875 |
| 10  | 22.5 | 27.375 |
| 11  | 25.0 | 29.875 |
| 12  | 27.5 | 32.375 |
| 13  | 30.0 | 34.875 |
| 14  | 32.5 | 37.375 |
| 15  | 35.0 | 39.875 |
| 16  | 37.5 | 42.375 |
| 17  | 40.0 | 44.875 |
| 18  | 42.5 | 47.375 |
| 19  | 45.0 | 49.875 |
| 20  | 47.5 | 52.375 |

OPTIONAL  
POLARISING  
RIB.



SEE SUBSEQUENT SHEETS FOR RELEVANT PART NUMBERS.

- NOTES:
1. REFER TO PRODUCT SPECIFICATION: PS-99020-0040.
  2. MATERIAL: HOUSING - NYLON PA6  
UL94-V0, COLOUR: NATURAL (WHITE).  
TERMINAL: PHOSPHOR BRONZE 0.30 REF. THICK - PLATING  
HOT TIN DIP.
  3. COLOUR STRIPE IS OPTIONAL. AVAILABLE IN THE FOLLOWING  
COLOURS: RED, GREEN, BLUE.  
(BLACK SIGNIFIES CUSTOMER SPECIFIC CONFIGURATION).  
ASTERISK IN CHART INDICATES FULL AREA COVERED.
  4. REFER TO PACKAGING SPEC (PK-90871-001)
  5. REFER TO APPLICATION SPEC (AS-99033-0008)



- PCB LAYOUT FOR 6CCT CONNECTOR  
(WITH OPTIONAL POSITIONAL RIB SLOT BETWEEN CCT 4 & 5)
- RECOMMENDED PCB THICKNESS 1.5±0.14

|                                                                                                                                 |             |                 |                                                      |       |                                                                                                                               |                            |                                                  |              |                        |                        |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|--------------|------------------------|------------------------|--|--|--|
| ADDED P/N'S<br>EC NO: E2010-0339<br>DRAWN: BMAGUIRE 2010/02/17<br>CHKD: JDENNEHY 2004/02/13<br>APPR: BMAGUIRE 2010/05/05<br>REV | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                |       |                                                                                                                               | DIMENSION STYLE<br>MM ONLY |                                                  | SCALE<br>5:1 | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |  |  |
|                                                                                                                                 |             | ▽=0             | mm                                                   | INCH  | DRAWN BY<br>NMCNAMAR                                                                                                          | DATE<br>2004/02/12         | TITLE<br>APPLI-MATE 2.5 FEMALE (MATL: NYLON PA6) |              |                        |                        |  |  |  |
|                                                                                                                                 |             | ▽=0             | 4 PLACES ± ---                                       | ± --- | CHECKED BY<br>JDENNEHY                                                                                                        | DATE<br>2004/02/13         | MOLEX INCORPORATED                               |              |                        |                        |  |  |  |
|                                                                                                                                 |             |                 | 3 PLACES ± 0.05                                      | ± --- | APPROVED BY<br>BMAGUIRE                                                                                                       | DATE<br>2004/02/16         | DOCUMENT NO. SD-91716-001                        |              |                        |                        |  |  |  |
|                                                                                                                                 |             |                 | 2 PLACES ± 0.10                                      | ± --- | MATERIAL NO.                                                                                                                  |                            | SHEET NO. 1 OF 5                                 |              |                        |                        |  |  |  |
|                                                                                                                                 |             |                 | 1 PLACE ± 0.2                                        | ± --- | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                                                  |              |                        |                        |  |  |  |
|                                                                                                                                 |             |                 | ANGULAR ±1/2°                                        |       |                                                                                                                               |                            |                                                  |              |                        |                        |  |  |  |
|                                                                                                                                 |             |                 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |       | SEE SHEET 2-5                                                                                                                 |                            |                                                  |              |                        |                        |  |  |  |
|                                                                                                                                 |             |                 |                                                      |       | SIZE A2                                                                                                                       |                            |                                                  |              |                        |                        |  |  |  |
|                                                                                                                                 |             |                 |                                                      |       |                                                                                                                               |                            |                                                  |              |                        |                        |  |  |  |

| 3 CIRCUIT      |                        |                       |                            |                 |               |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
| 91716-0001     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-0002     | NONE                   | a d                   |                            | NONE            | RED           |
| 91716-0013     | NONE                   | a                     |                            | NONE            | NONE          |
| 91716-0014     | NONE                   | b                     |                            | NONE            | NONE          |
| 91716-0015     | NONE                   | c                     |                            | NONE            | NONE          |
| 91716-0016     | NONE                   | d                     |                            | NONE            | NONE          |
| 91716-0017     | NONE                   | b d                   |                            | NONE            | NONE          |
| 91716-0018     | NONE                   | a c                   |                            | NONE            | NONE          |
| 91716-0019     | NONE                   | a d                   |                            | NONE            | NONE          |
| 91716-0020     | NONE                   | a b                   |                            | NONE            | NONE          |
| 91716-0021     | NONE                   | b c                   |                            | NONE            | NONE          |
| 91716-0022     | NONE                   | c d                   |                            | NONE            | NONE          |
| 91716-0023     | CKT 2                  | b d                   |                            | NONE            | NONE          |
| 91716-0024     | CKT 3                  | c                     |                            | NONE            | BLUE          |
| 91716-0034     | NONE                   | NONE                  |                            | BETWEEN CKT 1&2 | NONE          |
| 91716-0041     | NONE                   | NONE                  |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-0042     | CKT 1                  | NONE                  |                            | NONE            | NONE          |
| 91716-0043     | CKT 1                  | c                     |                            | NONE            | NONE          |
| 91716-0044     | NONE                   | b d                   |                            | NONE            | BLUE          |
| 91716-0045     | NONE                   | b                     |                            | NONE            | BLUE          |
| 91716-0046     | CKT 1                  | d                     |                            | NONE            | NONE          |
| 91716-0047     | NONE                   | b d                   |                            | NONE            | RED           |

| 4 CIRCUIT      |                        |                       |                            |                 |               |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
| 91716-0501     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-0502     | NONE                   | d                     |                            | NONE            | NONE          |
| 91716-0503     | NONE                   | a d                   |                            | NONE            | NONE          |
| 91716-0504     | NONE                   | c e                   |                            | NONE            | NONE          |
| 91716-0505     | NONE                   | a                     |                            | NONE            | NONE          |
| 91716-0506     | NONE                   | NONE                  |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-0538     | NONE                   | b                     |                            | NONE            | NONE          |
| 91716-0530     | NONE                   | b c                   |                            | NONE            | NONE          |
| 91716-0539     | NONE                   | a b                   |                            | NONE            | NONE          |
| 91716-0540     | NONE                   | d e                   |                            | NONE            | NONE          |
| 91716-0541     | NONE                   | ALL                   |                            | NONE            | NONE          |
| 91716-0542     | NONE                   | a b e                 |                            | NONE            | NONE          |
| 91716-0507     | CKT 1                  | NONE                  |                            | NONE            | NONE          |
| 91716-0543     | NONE                   | NONE                  |                            | BETWEEN CKT 3&4 | RED           |
| 91716-0544     | NONE                   | NONE                  |                            | BETWEEN CKT 2&3 | BLUE          |
| 91716-0545     | NONE                   | d                     |                            | NONE            | BLUE          |
| 91716-0546     | NONE                   | b                     |                            | NONE            | RED           |
| 91716-0547     | NONE                   | b c                   |                            | NONE            | GREEN         |
| 91716-0548     | NONE                   | c d                   |                            | NONE            | RED           |
| 91716-0549     | NONE                   | a c e                 |                            | NONE            | NONE          |
| 91716-0550     | NONE                   | NONE                  |                            | BETWEEN CKT 1&2 | NONE          |

| 4 CIRCUIT (continued) |                        |                       |                            |                |               |
|-----------------------|------------------------|-----------------------|----------------------------|----------------|---------------|
| MOLEX PART NO.        | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
| 91716-0551            | NONE                   | NONE                  |                            | NONE           | GREEN*        |

NOTES

1. + DENOTES TERMINAL VOIDED POSITION  
● DENOTES TERMINAL LOADED POSITION  
I DENOTES POLARIZING RIB POSITION  
2. \* = COLOUR COVERS WHOLE AREA

|                                                                                                                                       |                                |                                       |        |                                                                                                                               |                    |                                                  |                        |                        |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------|------------------------|------------------------|--|--|--|
| SEE SHEET 1<br>ECC NO: E2010-0339<br>DRAWN: BMAGUIRE 2010/02/17<br>CHKD: DENNEHY 2004/02/13<br>APPR: BMAGUIRE 2010/05/05<br>REV<br>AD | QUALITY SYMBOLS<br>▽=0<br>▽▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY                                                                                                    |                    | SCALE<br>1:1                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |  |  |
|                                                                                                                                       |                                | mm                                    | INCH   | DRAWN BY<br>NMCNAMAR                                                                                                          | DATE<br>2004/02/12 | TITLE<br>APPLI-MATE 2.5 FEMALE (MATL: NYLON PA6) |                        |                        |  |  |  |
|                                                                                                                                       |                                | 4 PLACES ± .005                       | ± .005 | CHECKED BY<br>J DENNEHY                                                                                                       | DATE<br>2004/02/13 | MOLEX INCORPORATED                               |                        |                        |  |  |  |
|                                                                                                                                       |                                | 2 PLACES ± .010                       | ± .010 | APPROVED BY<br>BMAGUIRE                                                                                                       | DATE<br>2004/02/16 | DOCUMENT NO.<br>SD-91716-001                     |                        |                        |  |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                  |                                | SEE CHART                             |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                  |                        |                        |  |  |  |
| SIZE<br>A 1                                                                                                                           |                                |                                       |        |                                                                                                                               |                    |                                                  |                        | SHEET NO.<br>2 OF 5    |  |  |  |

| 5 CIRCUIT      |                        |                       |                            |                 |               |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
| 91716-1001     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-1002     | NONE                   | ALL                   |                            | BETWEEN CKT 3&4 | NONE          |
| 91716-1003     | NONE                   | NONE                  |                            | BETWEEN CKT 4&5 | NONE          |
| 91716-1004     | NONE                   | c d                   |                            | NONE            | NONE          |
| 91716-1005     | NONE                   | a                     |                            | NONE            | NONE          |
| 91716-1006     | NONE                   | b                     |                            | NONE            | NONE          |
| 91716-1007     | NONE                   | a b e f               |                            | NONE            | NONE          |
| 91716-1008     | NONE                   | NONE                  |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-1009     | CKT 2, 3, 4            | NONE                  |                            | NONE            | NONE          |
| 91716-1010     | CKT 2                  | c                     |                            | NONE            | NONE          |
| 91716-1011     | CKT 2                  | d                     |                            | NONE            | NONE          |
| 91716-1012     | CKT 2                  | b                     |                            | NONE            | NONE          |
| 91716-1013     | CKT 2                  | a                     |                            | NONE            | NONE          |
| 91716-1014     | NONE                   | b c d e               |                            | NONE            | NONE          |
| 91716-1015     | CKT 2,3,4              | NONE                  |                            | BETWEEN CKT 3&4 | RED           |
| 91716-1016     | CKT 2                  | b                     |                            | NONE            | RED           |
| 91716-1017     | NONE                   | d e                   |                            | NONE            | NONE          |
| 91716-1018     | NONE                   | a d f                 |                            | NONE            | NONE          |

| 6 CIRCUIT      |                        |                       |                            |                 |               |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
| 91716-1501     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-1502     | NONE                   | ALL                   |                            | BETWEEN CKT 3&4 | NONE          |
| 91716-1503     | NONE                   | c e f g               |                            | NONE            | NONE          |
| 91716-1504     | NONE                   | ALL                   |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-1505     | CKT 2, 5               | d f                   |                            | NONE            | NONE          |
| 91716-1506     | NONE                   | a b f g               |                            | NONE            | NONE          |
| 91716-1507     | NONE                   | e f                   |                            | NONE            | NONE          |
| 91716-1509     | NONE                   | g                     |                            | NONE            | NONE          |
| 91716-1510     | CKT 2                  | c f                   |                            | NONE            | NONE          |
| 91716-1511     | CKT 2, 5               | NONE                  |                            | NONE            | NONE          |
| 91716-1512     | CKT 3, 5               | NONE                  |                            | NONE            | NONE          |
| 91716-1513     | CKT 2, 4               | b d e f               |                            | NONE            | NONE          |
| 91716-1514     | CKT 3, 5               | NONE                  |                            | BETWEEN CKT 1&2 | NONE          |
| 91716-1515     | CKT 2, 5               | NONE                  |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-1516     | NONE                   | c f                   |                            | BETWEEN CKT 3&4 | NONE          |
| 91716-1517     | NONE                   | c e                   |                            | NONE            | NONE          |
| 91716-1518     | CKT 2, 4               | NONE                  |                            | NONE            | NONE          |
| 91716-1519     | NONE                   | a c e                 |                            | NONE            | NONE          |
| 91716-1520     | CKT 5                  | c e                   |                            | NONE            | NONE          |
| 91716-1521     | CKT 2, 4, 5, 6         | c e                   |                            | NONE            | NONE          |
| 91716-1522     | CKT 2, 6               | c e                   |                            | NONE            | NONE          |

| 6 CIRCUIT (continued) |                        |                       |                            |                 |              |
|-----------------------|------------------------|-----------------------|----------------------------|-----------------|--------------|
| MOLEX PART NO.        | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOR STRIPE |
| 91716-1523            | NONE                   | NONE                  |                            | BETWEEN CKT 4&5 | NONE         |
| 91716-1524            | CKT 2, 4, 5, 6         | NONE                  |                            | NONE            | NONE         |
| 91716-1525            | CKT 2, 6               | NONE                  |                            | NONE            | NONE         |
| 91716-1526            | CKT 2, 5               | NONE                  |                            | NONE            | NONE         |
| 91716-1527            | CKT 2, 5               | c e                   |                            | NONE            | NONE         |
| 91716-1528            | CKT 2, 5               | a b d f g             |                            | NONE            | GREEN        |
| 91716-1529            | NONE                   | d                     |                            | NONE            | NONE         |
| 91716-1531            | CKT 1, 2, 3, 5         | NONE                  |                            | NONE            | NONE         |
| 91716-1532            | CKT 1, 2, 3, 5         | d f                   |                            | NONE            | NONE         |
| 91716-1534            | CKT 3, 4               | b d f                 |                            | NONE            | NONE         |
| 91716-1535            | CKT 4, 5               | b d f                 |                            | NONE            | NONE         |
| 91716-1536            | NONE                   | NONE                  |                            | BETWEEN CCT 2&3 | NONE         |
| 91716-1537            | NONE                   | d                     |                            | NONE            | BLUE         |
| 91716-1538            | CCT 2, 5               | b d                   |                            | NONE            | NONE         |
| 91716-1539            | CCT 5, 6               | c f                   |                            | NONE            | NONE         |
| 91716-1540            | CCT 2, 4               | d e                   |                            | NONE            | GREEN        |
| 91716-1541            | NONE                   | a f g                 |                            | NONE            | NONE         |
| 91716-1542            | NONE                   | NONE                  |                            | NONE            | RED*         |
| 91716-1543            | NONE                   | NONE                  |                            | BETWEEN 5&6     | NONE         |
| 91716-1544            | NONE                   | c d e f g             |                            | NONE            | RED*         |
| 91716-1545            | NONE                   | d f                   |                            | NONE            | BLACK*       |

#### NOTES

- + DENOTES TERMINAL VOIDED POSITION  
 ● DENOTES TERMINAL LOADED POSITION  
 | DENOTES POLARIZING RIB POSITION  
 2. \* = COLOUR COVERS WHOLE AREA

|                                                                                                                                                                         |                                    |                                                                                                                               |  |                                                                                                                             |  |                                                                               |                               |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|-------------------------------|-------------------------------|
| <b>SEE SHEET 1</b><br>EC NO: E2010-0339<br>DRAWN BY: BMAUIRE<br>CHECKED BY: JDENNEY<br>APPROVED BY: BMAUIRE<br>DATE: 2010/02/17<br>DATE: 2004/02/13<br>DATE: 2010/05/05 | <b>QUALITY SYMBOLS</b><br><br><br> | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>                                                                                  |  | <b>DIMENSION STYLE</b><br><b>MM ONLY</b>                                                                                    |  | <b>SCALE</b><br>1:1                                                           | <b>DESIGN UNITS</b><br>METRIC | <b>THIRD ANGLE PROJECTION</b> |
|                                                                                                                                                                         |                                    | 4 PLACES ±.--- ±.---<br>3 PLACES ±.05 ±.---<br>2 PLACES ±.10 ±.---<br>1 PLACE ±.2 ±.---<br>ANGULAR ±1/2°                      |  | DRAWN BY: NMCNAR<br>DATE: 2004/02/12<br>CHECKED BY: JDENNEY<br>DATE: 2004/02/13<br>APPROVED BY: BMAUIRE<br>DATE: 2004/02/16 |  | <b>TITLE</b><br>APPLI-MATE 2.5 FEMALE (MATL: NYLON PA6)                       |                               |                               |
|                                                                                                                                                                         |                                    | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                          |  | <b>SEE CHART</b><br>SIZE 1                                                                                                  |  | <b>MOLEX INCORPORATED</b><br>MATERIAL NO. SD-91716-001<br>DOCUMENT NO. 3 OF 5 |                               |                               |
|                                                                                                                                                                         |                                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                                                                                             |  |                                                                               |                               |                               |

## 7 CIRCUIT

| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| 91716-2001     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-2002     | NONE                   | ALL                   |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-2004     | NONE                   | a                     |                            | NONE            | NONE          |
| 91716-2005     | CKT 2                  | h                     |                            | NONE            | NONE          |
| 91716-2006     | CKT 4                  | a                     |                            | NONE            | NONE          |
| 91716-2007     | CKT 2                  | NONE                  |                            | NONE            | NONE          |
| 91716-2008     | CKT 6                  | NONE                  |                            | NONE            | NONE          |
| 91716-2009     | CKT 2                  | b c e g               |                            | NONE            | BLUE          |
| 91716-2010     | CKT 4 & 6              | b d f                 |                            | NONE            | RED           |
| 91716-2011     | CKT 4 & 6              | b d f                 |                            | NONE            | BLUE          |
| 91716-2012     | CKT 2                  | NONE                  |                            | NONE            | BLUE          |
| 91716-2013     | CKT 2                  | b d e f h             |                            | NONE            | BLUE          |
| 91716-2014     | CKT 4 & 6              | NONE                  |                            | NONE            | BLUE          |
| 91716-2015     | CKT 4 & 6              | c d e f h             |                            | NONE            | BLUE          |
| 91716-2016     | CKT 6                  | c d e f h             |                            | NONE            | BLUE          |
| 91716-2017     | CKT 6                  | c d e f               |                            | NONE            | BLUE          |
| 91716-2018     | CKT 6                  | NONE                  |                            | NONE            | BLUE          |
| 91716-2019     | CKT 2                  | NONE                  |                            | NONE            | BLACK         |
| 91716-2020     | NONE                   | a c e f h             |                            | NONE            | NONE          |
| 91716-2021     | NONE                   | a                     |                            | NONE            | BLACK*        |

## 8 CIRCUIT

| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| 91716-2501     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-2502     | NONE                   | NONE                  |                            | BETWEEN CKT 3&4 | NONE          |
| 91716-2503     | NONE                   | c f h l               |                            | NONE            | NONE          |
| 91716-2504     | NONE                   | b c d h l             |                            | NONE            | NONE          |
| 91716-2505     | NONE                   | b c g h               |                            | NONE            | BLUE          |
| 91716-2506     | NONE                   | c f                   |                            | NONE            | NONE          |
| 91716-2507     | NONE                   | c f h i               |                            | NONE            | BLUE          |
| 91716-2508     | NONE                   | NONE                  |                            | NONE            | BLUE          |
| 91716-2509     | NONE                   | a c d e g i           |                            | NONE            | BLUE          |
| 91716-2510     | NONE                   | c d e f               |                            | NONE            | BLUE          |
| 91716-2511     | NONE                   | NONE                  |                            | NONE            | BLACK         |
| 91716-2512     | NONE                   | c f h i               |                            | NONE            | BLACK         |
| 91716-2513     | NONE                   | c d g h               |                            | NONE            | NONE          |
| 91716-2514     | NONE                   | a c d e f g h i       |                            | NONE            | BLUE          |
| 91716-2515     | NONE                   | a b d f h i           |                            | NONE            | NONE          |
| 91716-2516     | NONE                   | b c d h i             |                            | NONE            | BLUE*         |

## 9 CIRCUIT

| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| 91716-3001     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-3002     | NONE                   | NONE                  |                            | BETWEEN CKT 4&5 | NONE          |
| 91716-3003     | CKT 2, 5, 8            | NONE                  |                            | NONE            | NONE          |
| 91716-3004     | NONE                   | NONE                  |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-3005     | CKT 2, 5, 8            | b c e g i j           |                            | NONE            | GREEN         |
| 91716-3006     | CKT 2, 5, 8            | NONE                  |                            | NONE            | GREEN         |
| 91716-3007     | CKT 2, 5, 8            | b c e f g i j         |                            | NONE            | GREEN         |
| 91716-3008     | CKT 2, 5, 8            | b c e f g i           |                            | NONE            | GREEN         |
| 91716-3009     | CKT 2, 5, 7            | c g                   |                            | NONE            | NONE          |
| 91716-3010     | CKT 2, 5, 8            | b c h i               |                            | NONE            | NONE          |

## 10 CIRCUIT

| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB  | COLOUR STRIPE |
|----------------|------------------------|-----------------------|----------------------------|-----------------|---------------|
| 91716-3501     | NONE                   | NONE                  |                            | NONE            | NONE          |
| 91716-3502     | NONE                   | ALL                   |                            | BETWEEN CKT 2&3 | NONE          |
| 91716-3503     | CKT 2, 5, 7, 9         | NONE                  |                            | NONE            | NONE          |
| 91716-3504     | NONE                   | NONE                  |                            | BETWEEN CKT 4&5 | NONE          |

## 11 CIRCUIT

| MOLEX PART NO. | TERMINAL VOID POSITION | REMOVED POSITION KEYS | CONFIGURATION (SEE NOTE 1) | POLARIZING RIB | COLOUR STRIPE |
|----------------|------------------------|-----------------------|----------------------------|----------------|---------------|
| 91716-4001     | NONE                   | NONE                  |                            | NONE           | NONE          |

### NOTES

- + DENOTES TERMINAL VOIDED POSITION
- ⊕ DENOTES TERMINAL LOADED POSITION
- | DENOTES POLARIZING RIB POSITION
- \* = COLOUR COVERS WHOLE AREA

|                                                                                                                                   |                               |                                       |  |                                                                                                                               |  |                                                  |                        |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------|------------------------|------------------------|--|
| SEE SHEET 1<br>ECC NO: E2010-0339<br>DRAWN BY: BMDGURE<br>CHKD: DENNEY<br>APPR: BMDGURE<br>2010/02/17<br>2004/02/13<br>2010/05/05 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE<br>MM ONLY                                                                                                    |  | SCALE<br>1:1                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                                                   |                               | mm INCH                               |  | DRAWN BY DATE<br>NMCNAR 2004/02/12                                                                                            |  | TITLE<br>APPLI-MATE 2.5 FEMALE (MATL: NYLON PA6) |                        |                        |  |
|                                                                                                                                   |                               | 4 PLACES ±.005 ±.005 ±.010 ±.010      |  | CHECKED BY DATE<br>JDENNEY 2004/02/13                                                                                         |  | MOLEX MOLEX INCORPORATED                         |                        |                        |  |
|                                                                                                                                   |                               | 2 PLACES ±.02 ±.02                    |  | APPROVED BY DATE<br>BMDGURE 2004/02/16                                                                                        |  | DOCUMENT NO.<br>SD-91716-001                     |                        |                        |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                              |                               | SIZE<br>A1                            |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | SHEET NO.<br>4 OF 5                              |                        |                        |  |

12 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-4501        | NONE                      | NONE                     |                               | NONE              | NONE             |
| 91716-4502        | CKT 2 5 8 11              | b c d e j k l            |                               | NONE              | GREEN            |
| 91716-4503        | CKT 2 5 8 11              | NONE                     |                               | NONE              | GREEN            |
| 91716-4504        | CKT 2 5 8 11              | a c d e g h i<br>k l m   |                               | NONE              | GREEN            |
| 91716-4505        | CKT 2 5 8 11              | c d e g h i k<br>l m     |                               | NONE              | GREEN            |

13 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-5001        | NONE                      | NONE                     |                               | NONE              | NONE             |
| 91716-5002        | CKT 4, 6, 8,<br>10, 12    | NONE                     |                               | NONE              | NONE             |
| 91716-5003        | NONE                      | c f h i k l              |                               | NONE              | NONE             |

14 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-5501        | NONE                      | NONE                     |                               | NONE              | NONE             |

15 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION  | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|----------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-6001        | NONE                       | NONE                     |                               | NONE              | NONE             |
| 91716-6002        | CKT 4, 6, 8,<br>10, 12, 14 | o p                      |                               | NONE              | NONE             |

16 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-6501        | NONE                      | NONE                     |                               | NONE              | NONE             |

17 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-7001        | NONE                      | NONE                     |                               | NONE              | NONE             |

18 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-7501        | NONE                      | NONE                     |                               | NONE              | NONE             |

19 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-8001        | NONE                      | NONE                     |                               | NONE              | NONE             |

20 CIRCUIT

| MOLEX<br>PART NO. | TERMINAL<br>VOID POSITION | REMOVED<br>POSITION KEYS | CONFIGURATION<br>(SEE NOTE 1) | POLARIZING<br>RIB | COLOUR<br>STRIPE |
|-------------------|---------------------------|--------------------------|-------------------------------|-------------------|------------------|
| 91716-8501        | NONE                      | NONE                     |                               | NONE              | NONE             |

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

|                                                                                                                            |                                  |                                                                                                                                                                        |                                                                                                                                                        |                                            |                        |                                                                                                                                  |  |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| SEE SHEET 1<br>ECC NO: E2010-0339<br>DRAWN: BMAGUIRE 2010/02/17<br>CHKD: J DENNEHY 2004/02/13<br>APPR: BMAGUIRE 2010/05/05 | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(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° | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY DATE<br>NMCNAR 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                               | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION                                                                                                        |  |
|                                                                                                                            |                                  |                                                                                                                                                                        |                                                                                                                                                        | APPLI-MATE 2.5 FEMALE<br>(MATL: NYLON PA6) |                        |                                                                                                                                  |  |
|                                                                                                                            |                                  |                                                                                                                                                                        |                                                                                                                                                        | MOLEX MOLEX INCORPORATED                   |                        |                                                                                                                                  |  |
|                                                                                                                            |                                  |                                                                                                                                                                        |                                                                                                                                                        | DOCUMENT NO. SD-91716-001                  |                        |                                                                                                                                  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                 |                                  |                                                                                                                                                                        | SEE CHART<br>SIZE A 1                                                                                                                                  |                                            |                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |
| SHEET NO. 5 OF 5                                                                                                           |                                  |                                                                                                                                                                        |                                                                                                                                                        |                                            |                        |                                                                                                                                  |  |