

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0919991254

Status:

Active

Overview:

[rast\\_5\\_connector\\_system](#)

Description:

5.00mm (.197") Pitch Appli-Mate RAST 5 Header, Vertical, 4 Circuits, Reference K01, Tin (Sn) Plating, Glow Wire Compatible

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-99020-0037 \(PDF\)](#)

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

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

PCB Headers

Series

91999

Application

Wire-to-Board

Overview

[rast\\_5\\_connector\\_system](#)

Product Name

RAST 5

Physical

Breakaway

No

Circuits (Loaded)

4

Circuits (maximum)

4

Color - Resin

Natural

Durability (mating cycles max)

10

First Mate / Last Break

No

Flammability

94V-0

Glow-Wire Compliant

Yes

Guide to Mating Part

No

Keying to Mating Part

Yes

Lock to Mating Part

No

Material - Metal

Brass

Material - Plating Mating

Tin

Material - Resin

Nylon

Number of Rows

1

Orientation

Vertical

PC Tail Length (in)

0.154 In

PC Tail Length (mm)

3.90 mm

PCB Locator

Yes

PCB Retention

None

PCB Thickness Recommended (in)

0.055 In

PCB Thickness Recommended (mm)

1.40 mm

Packaging Type

Bag

Pitch - Mating Interface (in)

0.197 In

Pitch - Mating Interface (mm)

5.00 mm

Plating min: Mating (µin)

200

Plating min: Mating (µm)

5

Polarized to PCB

Yes

Robotic Placement

None

Shrouded

Fully

Stackable

No

Surface Mount Compatible (SMC)

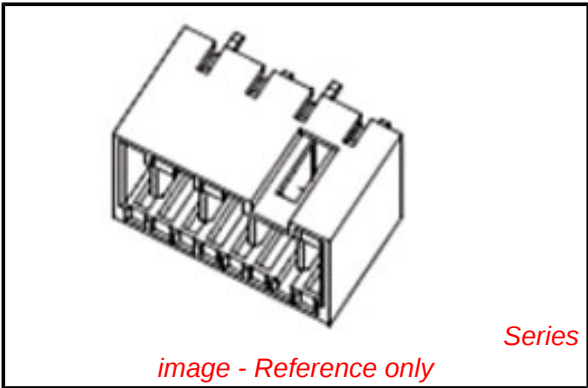
No

Temperature Range - Operating

-20C TO +120C

Termination Interface: Style

Through Hole



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

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

91999Series

**Electrical**

|                               |         |
|-------------------------------|---------|
| Current - Maximum per Contact | 16A     |
| Voltage - Maximum             | 250V AC |

**Material Info**

|                 |               |
|-----------------|---------------|
| Old Part Number | WITH ZYTEL RM |
|-----------------|---------------|

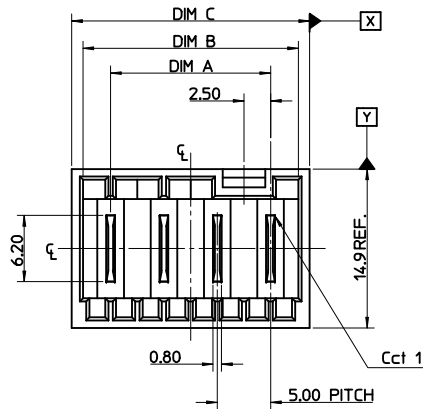
**Reference - Drawing Numbers**

|                         |               |
|-------------------------|---------------|
| Packaging Specification | PK-90858-001  |
| Product Specification   | PS-99020-0037 |
| Sales Drawing           | SD-91999-001  |

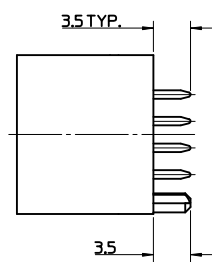
This document was generated on 05/26/2010

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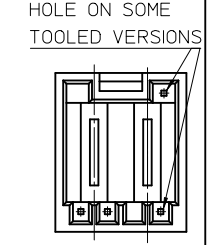
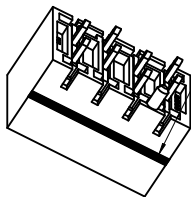
13 12 11 10 9 8 7 6 5 4 3 2 1



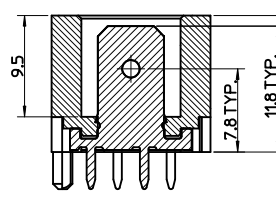
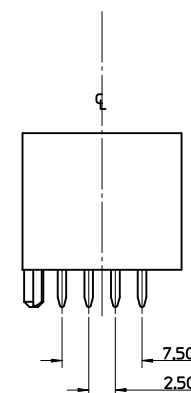
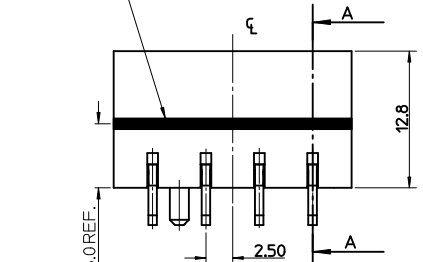
PCB PIN POLARISATION  
OPTION A AND B



COLOUR STRIPE OPTION



COLOUR STRIPE OPTION



A-A  
Scale 3:1

- NOTES:
- MATERIALS  
HOUSING: PA 66, UL94 V-0 750°C GWT NO FLAME  
TERMINAL: BRASS 0.80REF. THICK  
PLATING: OPTIONAL (SEE CHARTS SHEETS 2-6)  
54µm TIN OVER  
2.54µm NICKEL ALLOVER  
SELECTIVE SILVER  
24µm MIN SILVER  
3-54µm TIN OVER  
2.54µm NICKEL ALLOVER
  - PRODUCT CONFORMS TO SPECIFICATION PS-99020-0037/39
  - MATES WITH MOLEX 91338, 90833, 90835, 91777, 91778, 91779, 91954 & 92000.
  - SEE PACKAGING SPECIFICATION PK-90858-001  
TWO PACKAGING OPTIONS  
"A" LOOSE IN POLYBAGS IN SHIPPING CARTON  
"B" IN TUBES IN SHIPPING CARTON  
SEE TABLES IN FOLLOWING SHEETS FOR PACKAGING TYPE FOR EACH PART NUMBER
  - PLATED THRU HOLE
  - NON-PLATED THRU HOLE
  - RECOMMENDED PCB THICKNESS: 1.4±0.1mm
  - PCB VIEW IS FROM SOLDER SIDE

| CCT | DIM A | DIM B | DIM C | TOL     |
|-----|-------|-------|-------|---------|
| 2   | 5.00  | 10.20 | 12.30 |         |
| 3   | 10.00 | 15.20 | 17.30 |         |
| 4   | 15.00 | 20.20 | 22.30 |         |
| 5   | 20.00 | 25.20 | 27.30 |         |
| 6   | 25.00 | 30.20 | 32.30 |         |
| 7   | 30.00 | 35.20 | 37.30 |         |
| 8   | 35.00 | 40.20 | 42.30 |         |
| 9   | 40.00 | 45.20 | 47.30 |         |
| 10  | 45.00 | 50.20 | 52.30 |         |
| 11  | 50.00 | 55.20 | 57.30 |         |
| 12  | 55.00 | 60.20 | 62.30 | +/-0.30 |

| MOULD TOOLING CHANGE     | DESCRIPTION |
|--------------------------|-------------|
| EC NO: E2010-0370        |             |
| DRWN:BRUTTE 2010/05/17   |             |
| CHKD:T.TOURSH 2006/10/04 |             |
| APPR:BMAGUIRE 2010/06/08 |             |
| REV                      |             |

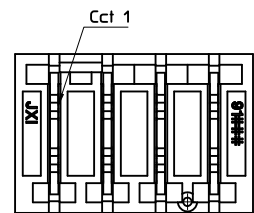
| QUALITY SYMBOLS |
|-----------------|
| ▽=0             |
| ▽=0             |

| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       |       |
|------------------------------------------------------------|-------|-------|
|                                                            | mm    | INCH  |
| 4 PLACES                                                   | ± --- | ± --- |
| 3 PLACES                                                   | ± --- | ± --- |
| 2 PLACES                                                   | ± 0.1 | ± --- |
| 1 PLACE                                                    | ± 0.2 | ± --- |
| ANGULAR ± 2 °                                              |       |       |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |       |

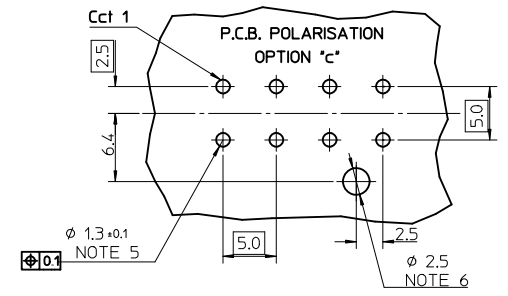
| DIMENSION STYLE | SCALE        | DESIGN UNITS                  | THIRD ANGLE PROJECTION |
|-----------------|--------------|-------------------------------|------------------------|
| MM ONLY         | 1:1          | METRIC                        |                        |
| DRAWN BY        | DATE         | TITLE                         |                        |
| B. RUTTLE       | 2006/10/04   | RAST 5 VERT HDR PA 66 HOUSING |                        |
| CHECKED BY      | DATE         |                               |                        |
| T. TOURSH       | 2006/10/04   |                               |                        |
| APPROVED BY     | DATE         |                               |                        |
| BMAGUIRE        | 2006/10/04   |                               |                        |
| MATERIAL NO.    | DOCUMENT NO. |                               |                        |
|                 | SD-91999-001 |                               |                        |
| SIZE            |              |                               |                        |
| A2              |              |                               |                        |

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

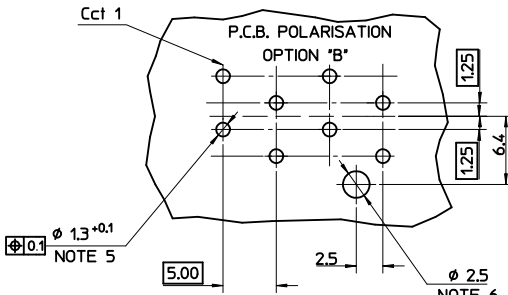
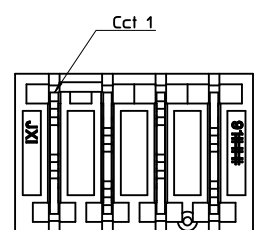
OPTION "C"



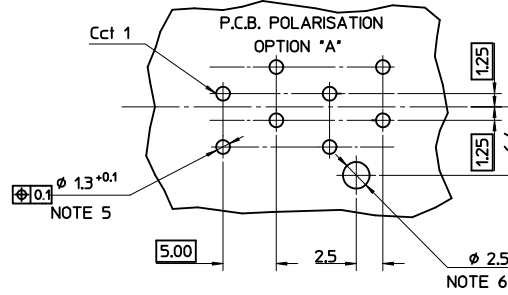
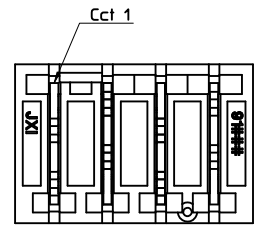
PCB LAYOUT



OPTION "B"



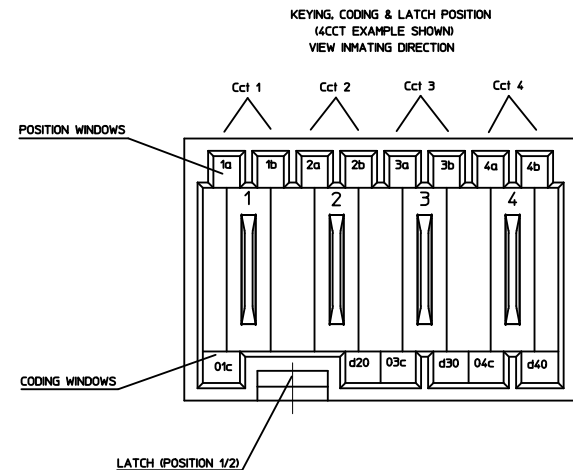
OPTION "A"



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

|                   |         | 19                         | 18                       | 17                | 16                           | 15  | 14                                                                              | 13 | 12                               | 11                    |                  |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|-----|---------------------------------------------------------------------------------|----|----------------------------------|-----------------------|------------------|
| 2 CIRCUIT         |         |                            |                          |                   |                              |     | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS |    | P.C.B.<br>POLARISATION<br>OPTION | PACKAGING<br>OPTION * | COLOUR<br>STRIPE |
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS | UNBLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER)                                                            |    |                                  |                       |                  |
| 91999-0003        | NATURAL | 1b 2a                      | 01c d20                  | 1/2               |                              | K01 | 91999-0499                                                                      | A  |                                  |                       |                  |
| 91999-0004        | NATURAL | 1a 2b                      | 01c                      | 1/2               |                              | K02 | 91999-0482                                                                      | A  |                                  |                       |                  |
| 91999-0007        | NATURAL | 1b 2b                      | 01c                      | 1/2               |                              | K09 | 91999-0497                                                                      | A  |                                  |                       |                  |
| 91999-0018        | NATURAL | 2a                         | 01c, d20                 | 1/2               |                              | K03 | 91999-0495                                                                      | A  |                                  |                       |                  |
| 91999-0019        | NATURAL | 1a 2b                      | d20                      | 1/2               |                              | K05 | 91999-0478                                                                      | A  |                                  |                       |                  |
| 91999-0021        | NATURAL | 1b                         | 01c, d20                 | 1/2               |                              | K16 | 91999-0492                                                                      | A  |                                  |                       |                  |
| 91999-0022        | NATURAL | 1a 2b                      | NONE                     | 1/2               |                              | K06 | 91999-0491                                                                      | A  |                                  |                       |                  |
| 91999-0027        | NATURAL | 2b                         | NONE                     | 1/2               |                              | K11 | 91999-0487                                                                      | A  |                                  |                       |                  |
| 91999-0029        | NATURAL | 1a 1b                      | d20                      | 1/2               |                              | K13 | 91999-0486                                                                      | A  |                                  |                       |                  |
| 91999-0030        | NATURAL | 2a 2b                      | NONE                     | 1/2               |                              | K31 | 91999-0485                                                                      | A  |                                  |                       |                  |
| 91999-0032        | NATURAL | 2b                         | d20                      | 1/2               |                              | K38 | 91999-0484                                                                      | A  |                                  |                       |                  |
| 91999-0047        | NATURAL | 1a 2a                      | 01c d20                  | 1/2               |                              | K44 | 91999-0483                                                                      | A  |                                  |                       |                  |
| 91999-0055        | NATURAL | 1a 1b                      | NONE                     | 1/2               |                              | K40 | 91999-0480                                                                      | A  |                                  |                       |                  |
| 91999-0020        | NATURAL | 1a 1b                      | 01c                      | 1/2               |                              | K04 | 91999-0475                                                                      | A  |                                  |                       |                  |
| 91999-0054        | NATURAL | 2b                         | 01c d20                  | 1/2               |                              | K15 | 91999-0476                                                                      | A  |                                  |                       |                  |
| 91999-0057        | NATURAL | 1a                         | 01c d20                  | 1/2               |                              | K12 | 91999-0477                                                                      | A  |                                  |                       |                  |
| 91999-0058        | NATURAL | 1a 2a                      | 01c                      | 1/2               |                              | K10 | 91999-0472                                                                      | A  |                                  |                       |                  |
| 91999-0059        | NATURAL | ALL                        | d20                      | 1/2               |                              | K34 | 91999-0474                                                                      | A  |                                  |                       |                  |
| 91999-0060        | NATURAL | 1b 2a 2b                   | d20                      | 1/2               |                              | K07 | 91999-0473                                                                      | A  |                                  |                       |                  |
| 91999-0061        | NATURAL | 1b 2a                      | 01c d20                  | 1/2               |                              | K01 | 91999-0471                                                                      | B  |                                  |                       |                  |
| 91999-0062        | NATURAL | 2a                         | 01c                      | 1/2               |                              | K42 | 91999-0470                                                                      | A  |                                  |                       |                  |
| 91999-0063        | NATURAL | 1b, 2a                     | d20                      | 1/2               |                              | K46 | 91999-0469                                                                      | A  |                                  |                       |                  |
| 91999-0064        | NATURAL | 1a, 2b                     | 01c, d20                 | 1/2               |                              | K48 | 91999-0468                                                                      | A  |                                  |                       |                  |

| 2 CIRCUIT         |         |                            |                          |                   | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS |     |                      | P.C.B.<br>POLARISATION<br>OPTION | PACKAGING<br>OPTION * | COLOUR<br>STRIPE |   |   |      |
|-------------------|---------|----------------------------|--------------------------|-------------------|---------------------------------------------------------------------------------|-----|----------------------|----------------------------------|-----------------------|------------------|---|---|------|
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS | UNBLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES)                                                    | REF | PART NO.<br>(SILVER) |                                  |                       |                  |   |   |      |
| 91999-0065        | NATURAL | 1b 2a                      | 01c d20                  | 1/2               |                                                                                 | K01 | 91999-0467           |                                  |                       |                  | A | B | NONE |
| 91999-0066        | NATURAL | 1a 2b                      | 01c                      | 1/2               |                                                                                 | K02 | 91999-0466           |                                  |                       |                  | A | B | NONE |
| 91999-0067        | NATURAL | ALL                        | ALL                      | 1/2               |                                                                                 | K00 | 91999-0465           |                                  |                       |                  | A | A | NONE |
| 91999-0068        | NATURAL | 1a 2b                      | 01c                      | 1/2               |                                                                                 | K02 | 91999-0464           |                                  |                       |                  | A | B | RED  |
| 91999-0069        | NATURAL | 1a                         | 01c                      | 1/2               |                                                                                 | K57 | 91999-0463           |                                  |                       |                  | A | A | NONE |
| 91999-0070        | NATURAL | 2a 2b                      | 01c                      | 1/2               |                                                                                 | K32 | 91999-0462           |                                  |                       |                  | A | B | NONE |
| 91999-0071        | NATURAL | 1b 2b                      | 01c                      | 1/2               |                                                                                 | K09 | 91999-0461           |                                  |                       |                  | C | A | NONE |



NOTES:  
\* SEE SHEET 1 NOTE 4

|                                                                                                                                            |                                  |                                          |                      |                                                            |                     |                                    |                                       |                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|----------------------|------------------------------------------------------------|---------------------|------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| SEE SHEET 1<br>ELEC NO: E2010-0370<br>2010/05/17<br>N<br>DRAWN BY<br>B. RUTLE<br>CHKD BY<br>T. TOURSH<br>APPR BY<br>BMAGUIRE<br>2010/06/08 | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |                      | DIMENSION STYLE<br>MM ONLY                                 |                     | SCALE<br>1:1                       | DESIGN UNITS<br>METRIC                | THIRD ANGLE<br>PROJECTION                                                                                                        |  |
|                                                                                                                                            |                                  | 4 PLACES ± --- ± ---                     | 3 PLACES ± --- ± --- | 2 PLACES ± 0.1 ± ---                                       | 1 PLACE ± 0.2 ± --- | DRAWN BY<br>B. RUTLE<br>2006/10/04 | CHECKED BY<br>T. TOURSH<br>2006/10/04 | APPROVED BY<br>BMAGUIRE<br>2006/10/04                                                                                            |  |
|                                                                                                                                            |                                  | ANGULAR ± 2 °                            |                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                     | SEE CHART                          |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |
|                                                                                                                                            |                                  |                                          |                      |                                                            |                     | MOLEX INCORPORATED                 |                                       | DOCUMENT NO.<br>SD-91999-001                                                                                                     |  |

3 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING  
FORMAT WHEN ADDING NEW PART NUMBERS

| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS | UNBLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF  | PART NO.<br>(SILVER) | P.C.B.<br>POLARISATION<br>OPTION | PACKAGING<br>OPTION * | COLOUR<br>STRIPE |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|------|----------------------|----------------------------------|-----------------------|------------------|
| 91999-0502        | NATURAL | 1b                         | 01c, d20                 | 1/2               |                              | K01  | 91999-1249           | A                                | A                     | NONE             |
| 91999-0508        | NATURAL | 1a                         | 03c                      | 1/2               |                              | K04  | 91999-1248           | A                                |                       |                  |
| 91999-0511        | NATURAL | 1a 1b                      | d30                      | 1/2               |                              | K05  | 91999-1247           | A                                |                       |                  |
| 91999-0512        | NATURAL | 1a 3b                      | 01c                      | 1/2               |                              | K06  | 91999-1246           | A                                |                       |                  |
| 91999-0513        | NATURAL | 1b                         | d20 03c                  | 1/2               |                              | K09  | 91999-1245           | A                                |                       |                  |
| 91999-0524        | NATURAL | 1b 2a 2b                   | d30                      | 1/2               |                              | K33  | 91999-1244           | A                                |                       |                  |
| 91999-0525        | NATURAL | 2b                         | d20                      | 1/2               |                              | K56  | 91999-1243           | A                                |                       |                  |
| 91999-0528        | NATURAL | ALL                        | d10 d30                  | 2/3               |                              | K38  | 91999-1242           | A                                |                       |                  |
| 91999-0527        | NATURAL | ALL                        | d20                      | 1/2               |                              | K40  | 91999-1240           | A                                |                       |                  |
| 91999-0526        | NATURAL | 2b 3b                      | d10 02c                  | 2/3               |                              | K02  | 91999-1241           | A                                |                       |                  |
| 91999-0529        | NATURAL | 1b                         | 01c d20                  | 1/2               |                              | N/A  | 91999-1239           | A                                | A                     | NONE             |
| 91999-0530        | NATURAL | 2b 3b                      | ALL                      | 2/3               |                              | k145 | 91999-1238           | A                                |                       |                  |
| 91999-0531        | NATURAL | 3b                         | 01c d30                  | 2/3               |                              | k10  | 91999-1237           | A                                |                       |                  |
| 91999-0532        | NATURAL | 3b                         | d10, 02c                 | 2/3               |                              | N/A  | 91999-1236           | A                                |                       |                  |
| 91999-0533        | NATURAL | 2b 3b                      | ALL                      | 2/3               |                              | k145 | 91999-1235           | A                                |                       |                  |
| 91999-0534        | NATURAL | ALL                        | ALL                      | 1/2               |                              | k00  | 91999-1234           | A                                |                       |                  |
| 91999-0506        | NATURAL | 1a 3a                      | d20                      | 1/2               |                              | k43  | 91999-1233           | A                                |                       |                  |
| 91999-0507        | NATURAL | 2a                         | d10 d30                  | 2/3               |                              | k44  | 91999-1232           | A                                |                       |                  |
| 91999-0535        | NATURAL | 3b                         | d10 d30                  | 2/3               |                              | N/A  | 91999-1231           | A                                |                       |                  |
| 91999-0536        | NATURAL | 1b                         | 01c                      | 1/2               |                              | N/A  | 91999-1230           | A                                |                       |                  |

NOTES:

\* SEE SHEET 1 NOTE 4

|                                                                                                                                  |                                  |                                          |       |                            |                         |                                           |                              |                           |  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|-------|----------------------------|-------------------------|-------------------------------------------|------------------------------|---------------------------|--|
| SEE SHEET 1<br>EC NO: E2010-0370<br>2010/05/17<br>DRAWN: BRUTLE<br>2006/10/04<br>CHKD: T. TOURSH<br>APPR: BMAGUIRE<br>2010/06/08 | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM ONLY |                         | SCALE<br>1:1                              | DESIGN UNITS<br>METRIC       | THIRD ANGLE<br>PROJECTION |  |
|                                                                                                                                  |                                  | mm                                       | INCH  | DRAWN BY<br>B. RUTLE       | DATE<br>2006/10/04      | TITLE<br>RAST 5 VERT HDR<br>PA 66 HOUSING |                              |                           |  |
|                                                                                                                                  |                                  | 4 PLACES                                 | ± --- | ± ---                      | CHECKED BY<br>T. TOURSH | DATE<br>2006/10/04                        | MOLEX INCORPORATED           |                           |  |
|                                                                                                                                  |                                  | 3 PLACES                                 | ± --- | ± ---                      | APPROVED BY<br>BMAGUIRE | DATE<br>2006/10/04                        | DOCUMENT NO.<br>SD-91999-001 |                           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |                                  | ANGULAR ± 2 °                            |       | SEE CHART                  |                         | SHEET NO.<br>3 OF 6                       |                              |                           |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                  |                                          |       |                            |                         |                                           |                              |                           |  |

| 4 CIRCUIT         |         |                            |                          |                   |                              |      | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS |   | P.C.B.<br>POLARISATION<br>OPTION | PACKAGING<br>OPTION * | COLOUR<br>STRIPE |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|------|---------------------------------------------------------------------------------|---|----------------------------------|-----------------------|------------------|
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS | UNBLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF  | PART NO.<br>(SILVER)                                                            |   |                                  |                       |                  |
| 91999-1254        | NATURAL | 1b                         | 03c d40                  | 1/2 3/4           |                              | K01  | 91999-1999                                                                      | A | ↑<br>↓                           | ↑                     | NONE             |
| 91999-1264        | NATURAL | 1a 4b                      | d40                      | 1/2 3/4           |                              | K03  | 91999-1998                                                                      | A |                                  |                       |                  |
| 91999-1265        | NATURAL | 2a 4b                      | d20                      | 1/2 3/4           |                              | K07  | 91999-1996                                                                      | A |                                  |                       |                  |
| 91999-1267        | NATURAL | 1b 2a 3a 4b                | 01c d40                  | 1/2 3/4           |                              | K37  | 91999-1994                                                                      | A |                                  |                       |                  |
| 91999-1270        | NATURAL | 1a 2b 4b                   | 01c 03c d40              | 1/2 3/4           |                              | K44  | 91999-1993                                                                      | A |                                  |                       |                  |
| 91999-1274        | NATURAL | 1a 3a 3b                   | 01c d20 d40              | 1/2 3/4           |                              | K32  | 91999-1992                                                                      | A |                                  |                       |                  |
| 91999-1275        | NATURAL | 1b 2a 4b                   | 01c d20 03c              | 1/2 3/4           |                              | K61  | 91999-1991                                                                      | A |                                  |                       |                  |
| 91999-1278        | NATURAL | 1a 3a                      | d40                      | 1/2 3/4           |                              | K06  | 91999-1987                                                                      | A |                                  |                       |                  |
| 91999-1280        | NATURAL | 1a 2b<br>3b 4a             | 01c 03c d40              | 1/2 3/4           |                              | K65  | 91999-1988                                                                      | A |                                  |                       |                  |
| 91999-1281        | NATURAL | 2a 4b                      | d20 03c                  | 1/2 3/4           |                              | K30  | 91999-1986                                                                      | A |                                  |                       |                  |
| 91999-1282        | NATURAL | 3b                         | d30                      | 2/3               |                              | K04  | 91999-1985                                                                      | A |                                  |                       |                  |
| 91999-1283        | NATURAL | 1b 2a 4b                   | ALL                      | 1/2 3/4           |                              | N/A  | 91999-1984                                                                      | A |                                  |                       |                  |
| 91999-1284        | NATURAL | 2a 3a 3b 4b                | ALL                      | 1/2 3/4           |                              | N/A  | 91999-1983                                                                      | A |                                  |                       |                  |
| 91999-1285        | NATURAL | 2a 2b 3b 4b                | ALL                      | 1/2 3/4           |                              | k153 | 91999-1982                                                                      | A | A                                |                       |                  |
| 91999-1286        | NATURAL | 2a 2b 3b 4b                | ALL                      | 1/2 3/4           |                              | k153 | 91999-1981                                                                      | A | B                                |                       |                  |
| 91999-1287        | NATURAL | 1a, 4b                     | 01c                      | 1/2 3/4           |                              | k02  | 91999-1980                                                                      | A | A                                |                       |                  |
| 91999-1288        | NATURAL | 1b, 2b,<br>3b, 4a          | 01c 03c d40              | 1/2 3/4           |                              | k--  | 91999-1979                                                                      | A | A                                |                       |                  |
| 91999-1289        | NATURAL | 1b                         | 03c d40                  | 1/2 3/4           |                              | k01  | 91999-1978                                                                      | C | A                                |                       |                  |
| 91999-1290        | NATURAL | 1b 2a 2b<br>3a 4a 4b       | 03c d40                  | 1/2 3/4           |                              | k12  | 91999-1977                                                                      | A | A                                |                       |                  |
| 91999-1291        | NATURAL | ALL                        | ALL                      | 1/2 3/4           |                              | k00  | 91999-1976                                                                      | A | A                                |                       |                  |
| 91999-1292        | NATURAL | 1b 2a<br>3a 4a             | 01c d20 03c              | 1/2 3/4           |                              | k83  | 91999-1975                                                                      | A | A                                |                       |                  |
| 91999-1293        | NATURAL | 1b 2b<br>3b 4a             | 01c 03c d40              | 1/2 3/4           |                              | k120 | 91999-1974                                                                      | A | A                                | NONE                  |                  |
| 91999-1294        | NATURAL | 1a 2a 2b<br>3a 3b 4a 4b    | NONE                     | 1/2 3/4           |                              | k102 | 91999-1973                                                                      | A | A                                | NONE                  |                  |
| 91999-1295        | NATURAL | 1b 3b 4b                   | 01c d20 03c              | 1/2 3/4           |                              | k85  | 91999-1972                                                                      | A | A                                | NONE                  |                  |

SEE SHEET 1

EC NO: E2010-0370

2010/05/17

DRWN:BRUTTE

2006/10/04

CHKD:T. TOURSH

2010/06/08

APPR:BMAGUIRE

2010/06/08

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          |       |       |
|----------|-------|-------|
|          | mm    | INCH  |
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.1 | ± --- |
| 1 PLACE  | ± 0.2 | ± --- |

ANGULAR ± 2 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

B. RUTILE

DATE

2006/10/04

CHECKED BY

T. TOURSH

DATE

2006/10/04

APPROVED BY

BMAGUIRE

DATE

2006/10/04

MATERIAL NO.

SCALE

1:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

RAST 5 VERT HDR  
PA 66 HOUSING

MOLEX INCORPORATED

DOCUMENT NO.

SD-91999-001

SHEET NO.

4 OF 6

SEE CHART

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



| 7 CIRCUIT         |         |                              |                            |                   |                              |     |                      | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS | P.C.B.<br>POLARISATION<br>OPTION | PACKAGIG<br>OPTION * | COLOUR<br>STRIPE |
|-------------------|---------|------------------------------|----------------------------|-------------------|------------------------------|-----|----------------------|---------------------------------------------------------------------------------|----------------------------------|----------------------|------------------|
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS   | UNBLOCKED<br>CODING KEYS   | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER) |                                                                                 |                                  |                      |                  |
| 91999-3511        | NATURAL | NONE                         | 03c d40 07c                | 1/2 5/6           |                              | K01 | 91999-4249           | A                                                                               | ↑<br>↓                           | ↑<br>↓               | NONE             |
| 91999-3512        | NATURAL | 3a 4a                        | d30 d70                    | 1/2 5/6           |                              | K30 | 91999-4248           | A                                                                               |                                  |                      |                  |
| 91999-3504        | NATURAL | 2b                           | d20 d60                    | 1/2 5/6           |                              | K32 | 91999-4247           | A                                                                               |                                  |                      |                  |
| 91999-3508        | NATURAL | 1a 1b 3a<br>4b 5a            | 01c 07c                    | 1/2 3/4 5/6       |                              | K40 | 91999-4243           | A                                                                               |                                  |                      |                  |
| 91999-3509        | NATURAL | 2a                           | 01c d50                    | 2/3 4/5           |                              | K41 | 91999-4242           | A                                                                               |                                  |                      |                  |
| 91999-3515        | NATURAL | 7b                           | 01c d40 d70                | 1/2 3/4 6/7       |                              | K43 | 91999-4240           | A                                                                               |                                  |                      |                  |
| 91999-3516        | NATURAL | 1b                           | 03c d60                    | 1/2 4/5           |                              | K31 | 91999-4239           | A                                                                               |                                  |                      |                  |
| 91999-3517        | NATURAL | 1a 3a 4b<br>7b               | 01c d20<br>03c 06c         | 1/2 3/4 6/7       |                              | K45 | 91999-4238           | A                                                                               |                                  |                      |                  |
| 91999-3519        | NATURAL | 1b 7a                        | 02c d50                    | 2/3 6/7           |                              | K48 | 91999-4237           | A                                                                               |                                  |                      |                  |
| 91999-3521        | NATURAL | 1a 2b 3a<br>4b 6a            | d20 03c d40<br>d50 d70     | 1/2 3/4 6/7       |                              | K51 | 91999-4236           | A                                                                               |                                  |                      |                  |
| 91999-3522        | NATURAL | 1b 6a                        | d20 03c<br>d50 d70         | 1/2 3/4 6/7       |                              | K69 | 91999-4235           | A                                                                               |                                  |                      |                  |
| 91999-3523        | NATURAL | 1b 2a 5a 5b<br>7b            | d20 d50 06c<br>d70         | 1/2 4/5 6/7       |                              | K34 | 91999-4234           | A                                                                               |                                  |                      |                  |
| 91999-3524        | NATURAL | 2b                           | d20 07c                    | 1/2 3/4 5/6       |                              | K35 | 91999-4233           | A                                                                               |                                  |                      |                  |
| 91999-3525        | NATURAL | 2a 2b 4b 5b<br>6a            | d20 03c d40<br>d60         | 1/2 3/4 5/6       |                              | K38 | 91999-4232           | A                                                                               |                                  |                      |                  |
| 91999-3526        | NATURAL | 2b 4a 4b 5b<br>6a            | 01c d20 d40<br>d60         | 1/2 3/4 5/6       |                              | K42 | 91999-4231           | A                                                                               |                                  |                      |                  |
| 91999-3527        | NATURAL | 1b, 2a, 3a<br>5b, 6a, 6b, 7b | 01c, d70                   | 2/3, 6/7          |                              | K05 | 91999-4230           | A                                                                               | A                                | ↓                    |                  |
| 91999-3528        | NATURAL | ALL                          | ALL                        | 1/2, 5/6          |                              | K00 | 91999-4229           | A                                                                               | A                                |                      | NONE             |
| 91999-3529        | NATURAL | 2a 3b 4b<br>5a 6a 6b 7a      | 01c d30 04c<br>06c d60 d70 | 1/2 4/5           |                              | N/A | 91999-4228           | A                                                                               | A                                |                      | NONE             |
| 91999-3530        | NATURAL | NONE                         | 04c 07c                    | 1/2 5/6           |                              | N/A | 91999-4227           | A                                                                               | A                                |                      | NONE             |

NOTES:  
\* SEE SHEET 1 NOTE 4

|                                                                                                                                  |                                  |                                          |       |                            |                    |                              |                        |                                                                                                                                  |                                           |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|-------|----------------------------|--------------------|------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--|--|--|
| SEE SHEET 1<br>EC NO: E2010-0370<br>DRAWN: BRUTLE<br>CHKD: T. TOURSH<br>APPR: BMAGUIRE<br>2010/05/17<br>2006/10/04<br>2010/06/08 | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>1:1                 | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION                                                                                                        | TITLE<br>RAST 5 VERT HDR<br>PA 66 HOUSING |  |  |  |
|                                                                                                                                  |                                  | mm                                       | INCH  | DRAWN BY<br>B. RUTLE       | DATE<br>2006/10/04 | DOCUMENT NO.<br>SD-91999-001 |                        |                                                                                                                                  | SHEET NO.<br>6 OF 6                       |  |  |  |
|                                                                                                                                  |                                  | 4 PLACES ± ---                           | ± --- | CHECKED BY<br>T. TOURSH    | DATE<br>2006/10/04 | MOLEX INCORPORATED           |                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                           |  |  |  |
|                                                                                                                                  |                                  | 3 PLACES ± ---                           | ± --- | APPROVED BY<br>BMAGUIRE    | DATE<br>2006/10/04 | SEE CHART                    |                        | SIZE<br>A 1                                                                                                                      |                                           |  |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |                                  | ANGULAR ± 2 °                            |       |                            |                    |                              |                        |                                                                                                                                  |                                           |  |  |  |