

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0908582759](#)
Status: **Active**
Overview: [rast 5 connector system](#)
Description: 5.00mm (.197") Pitch Appli-Mate RAST 5 Header, Vertical, 6 Circuits, Reference K44

Documents:

[3D Model](#) [Product Specification PS-99020-0037 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Packaging Specification \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series [90858](#)
 Application Wire-to-Board
 Overview [rast 5 connector system](#)
 Product Name RAST 5

Physical

Breakaway No
 Circuits (Loaded) 6
 Circuits (maximum) 6
 Color - Resin Natural
 Durability (mating cycles max) 10
 First Mate / Last Break No
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part No
 Keying to Mating Part None
 Lock to Mating Part None
 Material - Metal Brass
 Material - Plating Mating Tin
 Material - Plating Termination Tin
 Number of Rows 1
 Orientation Vertical
 PC Tail Length (in) 0.138 In
 PC Tail Length (mm) 3.50 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
 Polarized to PCB Yes
 Shrouded Fully
 Stackable Yes
 Surface Mount Compatible (SMC) No
 Temperature Range - Operating -20°C to +85°C
 Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 16A

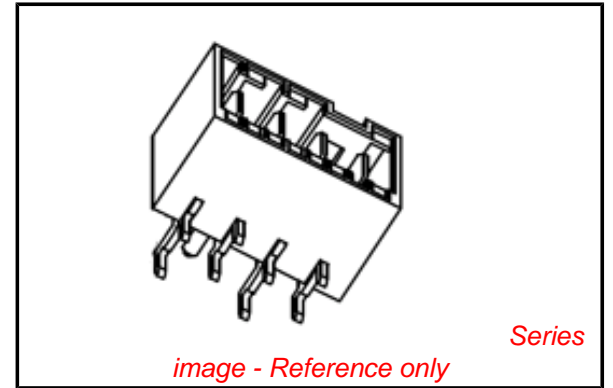


image - Reference only

EU RoHS

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

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
 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

[90858Series](#)

Mates With

Appli-Mate 5.0 IDT Connector System
 Female Receptacle [90835](#) , [90833](#)

Voltage - Maximum 250V

Solder Process Data

Duration at Max. Process Temperature (seconds) 10

Lead-free Process Capability Wave Capable (TH only)

Process Temperature max. C 260

Material Info

Reference - Drawing Numbers

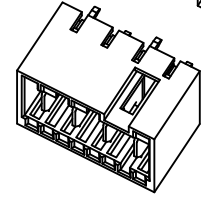
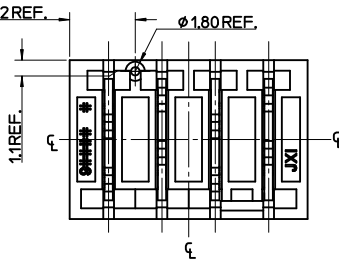
Packaging Specification PK-90858-001

Product Specification PS-99020-0037

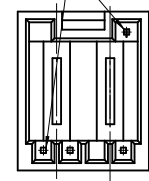
Sales Drawing SD-90858-001

This document was generated on 06/08/2010

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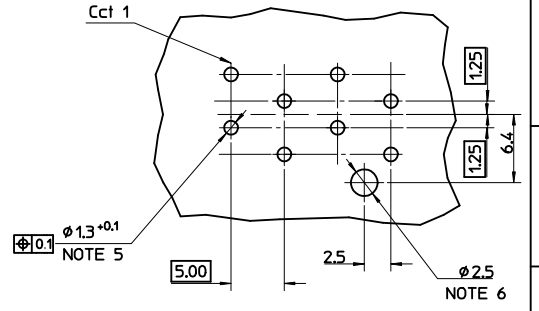
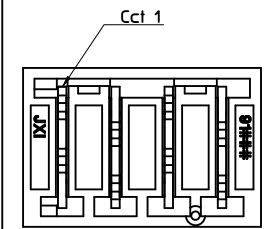
HOLES ON SOME TOOLED VERSIONS



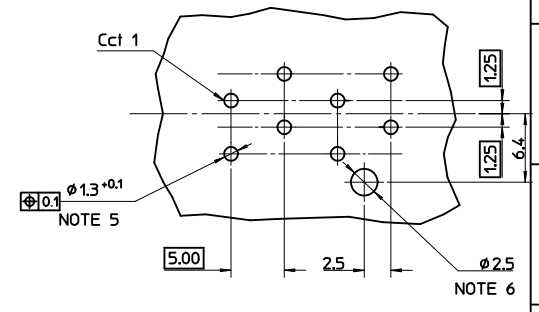
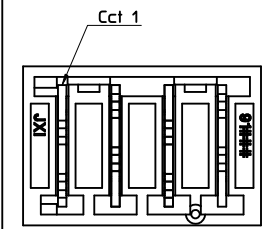
| CCT | DIM A | DIM B | DIM C | TOL |
|-----|-------|-------|-------|---------|
| 2 | 5.00 | 10.20 | 12.30 | |
| 3 | 10.00 | 15.20 | 17.30 | |
| 4 | 15.00 | 20.20 | 22.30 | |
| 5 | 20.00 | 25.20 | 27.30 | |
| 6 | 25.00 | 30.20 | 32.30 | +/-0.30 |
| 7 | 30.00 | 35.20 | 37.30 | |
| 8 | 35.00 | 40.20 | 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 | |

RECOMMENDED PCB LAYOUT

P.C.B. POLARISATION OPTION "B"



P.C.B. POLARISATION OPTION "A"



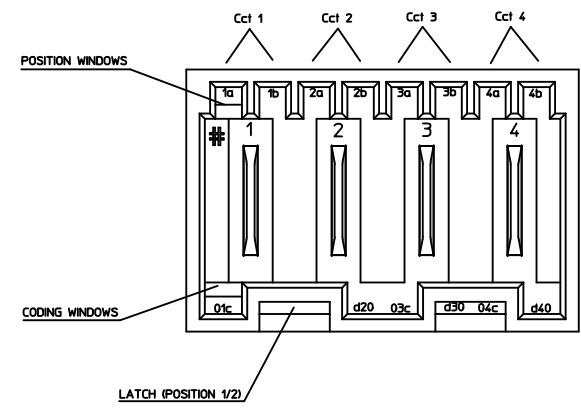
- NOTES:
- MATERIALS
HOUSING: 30% GLASS-FILLED PBT, UL94 V-0
TERMINAL: BRASS 0.80REF. THICK
PLATING: OPTIONAL (SEE CHARTS SHEETS 2-9)
5µm TIN OVER
2.5µm NICKEL ALLOVER
SELECTIVE SILVER
2µm MIN SILVER
2.5µm NICKEL ALLOVER
 - PRODUCT CONFORMS TO SPECIFICATION PS-99020-0037
 - MATES WITH MOLEX 91338, 90833, 90835, 91777, 91778 & 91779
 - PARTS PACKAGED LOOSE IN PLASTIC BAGS
 - PLATED THRU HOLE
 - NON-PLATED THRU HOLE
 - RECOMMENDED PCB THICKNESS: 1.4±0.1mm
 - PCB VIEW IS FROM SOLDER SIDE

| | | | | | | | |
|--|--|---|--|-----------------------------------|---------------------|--------------------------|--------------------------|
| MOULD PROCESS CHANGE EC NO: E2010-0370 DRAWN: BRUTTLE 2010/05/13 CHKD: IDENEHY 2004/05/27 APPR: BMAGUIRE 2010/06/08 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| | | 4 PLACES ± --- ± --- 3 PLACES ± 0.1 ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± 0.2 ± --- | mm INCH ± --- ± --- ± 0.1 ± --- ± 0.2 ± --- | DRAWN BY NMCNAMAR | DATE 2004/05/26 | TITLE RAST 5 VERT HDR | MOLEX MOLEX INCORPORATED |
| MOULD PROCESS CHANGE EC NO: E2010-0370 DRAWN: BRUTTLE 2010/05/13 CHKD: IDENEHY 2004/05/27 APPR: BMAGUIRE 2010/06/08 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. SD-SHEETS 2-7 | DATE 2004/05/28 | DOCUMENT NO. SD-90858-001 | SHEET NO. 1 OF 7 | | |

2 CIRCUIT

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

| PART NO. (TIN) | COLOR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | P.C.B. POLARISATION OPTION |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|-----|----------------------|----------------------------------|
| 90858-0003 | NATURAL | 1b 2a | 01c d20 | 1/2 | | K01 | 90858-0499 | A |
| 90858-0004 | NATURAL | 1a 2b | 01c | 1/2 | | K02 | 90858-0482 | A |
| 90858-0007 | NATURAL | 1b 2b | 01c | 1/2 | | K09 | 90858-0497 | A |
| 90858-0018 | NATURAL | 2a | 01c, d20 | 1/2 | | K03 | 90858-0495 | A |
| 90858-0019 | NATURAL | 1a 2b | d20 | 1/2 | | K05 | 90858-0478 | A |
| 90858-0021 | NATURAL | 1b | 01c, d20 | 1/2 | | K16 | 90858-0492 | A |
| 90858-0022 | NATURAL | 1a 2b | NONE | 1/2 | | K06 | 90858-0491 | A |
| 90858-0027 | NATURAL | 2b | NONE | 1/2 | | K11 | 90858-0487 | A |
| 90858-0029 | NATURAL | 1a 1b | d20 | 1/2 | | K13 | 90858-0486 | A |
| 90858-0030 | NATURAL | 2a 2b | NONE | 1/2 | | K31 | 90858-0485 | A |
| 90858-0032 | NATURAL | 2b | d20 | 1/2 | | K38 | 90858-0484 | A |
| 90858-0047 | NATURAL | 1a 2a | 01c d20 | 1/2 | | K44 | 90858-0483 | A |
| 90858-0055 | NATURAL | 1a 1b | NONE | 1/2 | | K40 | 90858-0480 | A |
| 90858-0020 | NATURAL | 1a 1b | 01c | 1/2 | | K04 | 90858-0475 | A |
| 90858-0054 | NATURAL | 2b | 01c d20 | 1/2 | | K15 | 90858-0476 | A |
| 90858-0057 | NATURAL | 1a | 01c d20 | 1/2 | | K12 | 90858-0477 | A |
| 90858-0058 | NATURAL | 1a 2a | 01c | 1/2 | | K10 | 90858-0472 | A |
| 90858-0059 | NATURAL | ALL | d20 | 1/2 | | K34 | 90858-0474 | A |
| 90858-0060 | NATURAL | 1b 2a 2b | d20 | 1/2 | | K07 | 90858-0473 | A |
| 90858-0061 | NATURAL | 1b 2a | 01c d20 | 1/2 | | K01 | 90858-0471 | B |
| | | | | | | | | |
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KEYING, CODING & LATCH POSITION
(4CCT EXAMPLE SHOWN)
VIEW INMATING DIRECTION

| | | | | | | | |
|--|--|--|--|------------------------------|---------------------|--|--|
| SEE SHEET 1 EC NO: E2010-0370 DRN:BRUTTE 2010/05/13 CHKD:JDENNEHY 2004/05/27 APPR:BMAGUIRE 2010/06/08 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | $\nabla=0$ $\nabla=0$ | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 2 ° | MM ONLY DRAWN BY DATE NMCNAR 2004/05/26 CHECKED BY DATE JDENNEHY 2004/05/27 APPROVED BY DATE BMAGUIRE 2004/05/28 | 1:1 | METRIC | <input checked="" type="checkbox"/> THIRD ANGLE PROJECTION | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE CHART | MATERIAL NO. SD-90858-001 | DOCUMENT NO. SD-90858-001 | SHEET NO. 2 OF 7 | RAST 5 VERT HDR MOLEX INCORPORATED | |
| | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |

| 3 CIRCUIT | | | | | | | | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | P.C.B. POLARISATION OPTION |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|-----|----------------------|---|--|----------------------------------|
| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | | | |
| 90858-0502 | NATURAL | 1b | 01c, d20 | 1/2 | | K01 | 90858-1249 | A | | |
| 90858-0508 | NATURAL | 1a | 03c | 1/2 | | K04 | 90858-1248 | A | | |
| 90858-0511 | NATURAL | 1a 1b | d30 | 1/2 | | K05 | 90858-1247 | A | | |
| 90858-0512 | NATURAL | 1a 3b | 01c | 1/2 | | K06 | 90858-1246 | A | | |
| 90858-0513 | NATURAL | 1b | d20 03c | 1/2 | | K09 | 90858-1245 | A | | |
| 90858-0524 | NATURAL | 1b 2a 2b | d30 | 1/2 | | K33 | 90858-1244 | A | | |
| 90858-0525 | NATURAL | 2b | d20 | 1/2 | | K56 | 90858-1243 | A | | |
| 90858-0528 | NATURAL | ALL | d10 d30 | 2/3 | | K38 | 90858-1242 | A | | |
| 90858-0527 | NATURAL | ALL | d20 | 1/2 | | K40 | 90858-1240 | A | | |
| 90858-0526 | NATURAL | 2b 3b | d10 02c | 2/3 | | K02 | 90858-1241 | A | | |
| 90858-0529 | NATURAL | 1b | 01c d20 | 1/2 | | | 90858-1239 | A | | |
| 90858-0530 | NATURAL | 3b | d10, d30 | 2/3 | | | 90858-1238 | A | | |
| 90858-0531 | NATURAL | 3b | 01c, d30 | 2/3 | | | 90858-1237 | A | | |
| 90858-0532 | NATURAL | 3b | d10, 02c | 2/3 | | | 90858-1236 | A | | |
| | | | | | | | | | | |
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| 4 CIRCUIT | | | | | | | | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | P.C.B. POLARISATION OPTION |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|-----|----------------------|---|--|----------------------------------|
| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | | | |
| 90858-1254 | NATURAL | 1b | 03c d40 | 1/2 3/4 | | K01 | 90858-1999 | A | | |
| 90858-1264 | NATURAL | 1a 4b | d40 | 1/2 3/4 | | K03 | 90858-1998 | A | | |
| 90858-1265 | NATURAL | 2a 4b | d20 | 1/2 3/4 | | K07 | 90858-1996 | A | | |
| 90858-1267 | NATURAL | 1b 2a 3a 4b | 01c d40 | 1/2 3/4 | | K37 | 90858-1994 | A | | |
| 90858-1270 | NATURAL | 1a 2b 4b | 01c 03c d40 | 1/2 3/4 | | K44 | 90858-1993 | A | | |
| 90858-1274 | NATURAL | 1a 3a 3b | 01c d20 d40 | 1/2 3/4 | | K32 | 90858-1992 | A | | |
| 90858-1275 | NATURAL | 1b 2a 4b | 01c d20 03c | 1/2 3/4 | | K61 | 90858-1991 | A | | |
| 90858-1278 | NATURAL | 1a 3a | d40 | 1/2 3/4 | | K06 | 90858-1987 | A | | |
| 90858-1280 | NATURAL | 1a 2b 3b 4a | 01c 03c d40 | 1/2 3/4 | | K65 | 90858-1988 | A | | |
| 90858-1281 | NATURAL | 2a 4b | d20 03c | 1/2 3/4 | | K30 | 90858-1986 | A | | |
| 90858-1282 | NATURAL | 3b | d30 | 2/3 | | K04 | 90858-1985 | A | | |
| 90858-1283 | NATURAL | 1b 2a 4b | 01c d20 03c d40 | 1/2 3/4 | | N/A | 90858-1984 | A | | |
| 90858-1284 | NATURAL | 2a 3a 3b 4b | 01c d20 03c d40 | 1/2 3/4 | | N/A | 90858-1983 | A | | |
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|---|-------------------------|--|--|---|--|--------------------|------------------------|------------------------------|--|---|
| SEE SHEET 1 EEC NO: E2010-0370 DRAWN BY: DRWN:BRUTLE CHECKED BY: CHKD:JENNEHY APPROVED BY: APPR:BMAGUIRE 2010/05/13 2004/05/27 2010/06/08 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 2 ° | | DIMENSION STYLE MM ONLY | | SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | |
| | | DRAWN BY: NMCNAMAR DATE: 2004/05/26 | | TITLE RAST 5 VERT HDR | | MOLEX INCORPORATED | | | | |
| | | CHECKED BY: JDENNEHY DATE: 2004/05/27 | | APPROVED BY: BMAGUIRE DATE: 2004/05/28 | | SEE CHART | | DOCUMENT NO. SD-90858-001 | | SHEET NO. 3 OF 7 |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |

5 CIRCUIT

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

| PART NO. (TIN) | COLOUR | UNLOCKED POSITION KEYS | UNLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | P.C.B. POLARISATION OPTION |
|-------------------|---------|---------------------------|-------------------------|-------------------|------------------------------|-----|----------------------|----------------------------------|
| 90858-2000 | NATURAL | 1a 5b | 01c d30 | 1/2 2/3 | | K01 | 90858-2749 | A |
| 90858-2001 | NATURAL | 1a 3a | 01c d30 | 1/2 4/5 | | K30 | 90858-2748 | A |
| 90858-2002 | NATURAL | 1a 5b | 01c d20 03c d50 | 1/2 3/4 | | K31 | 90858-2747 | A |
| 90858-2003 | NATURAL | 1b 2a 3b 5a | 01c 03c | 1/2 3/4 | | K35 | 90858-2746 | A |
| 90858-2004 | NATURAL | 1a 2a 2b 4b 5b | 01c d30 04c d50 | 1/2 2/3 4/5 | | K36 | 90858-2745 | A |
| 90858-2006 | NATURAL | 2a | 01c d50 | 2/3 4/5 | | K43 | 90858-2742 | A |
| 90858-2012 | NATURAL | 2a 4b | 01c d20 d40 | 1/2 3/4 | | K44 | 90858-2743 | A |
| 90858-2013 | NATURAL | 2b | d20 | 1/2 4/5 | | K02 | 90858-2741 | A |
| 90858-2014 | NATURAL | 4b 5a | 01c d30 04c d50 | 1/2 4/5 | | K45 | 90858-2740 | A |
| 90858-2015 | NATURAL | NONE | 01c d40 | 1/2 3/4 | | K46 | 90858-2739 | A |
| 90858-2017 | NATURAL | 1a 4a | d30 | 1/2 4/5 | | K04 | 90858-2737 | A |
| 90858-2024 | NATURAL | 1a 5b | d20 d40 | 1/2 3/4 | | K77 | 90858-2732 | A |
| 90858-2025 | NATURAL | 2b | d20 d50 | 1/2 3/4 | | K95 | 90858-2733 | A |
| 90858-2026 | NATURAL | 1a 5b | 01c d20 03c d50 | 1/2 3/4 | | | 90858-2734 | A |
| 90858-2027 | NATURAL | 1a 3a 4b 5a | 03c 04c | 1/2 4/5 | | K73 | 90858-2735 | A |
| 90858-2028 | NATURAL | 2b | d20 | 1/2 4/5 | | | 90858-2731 | A |
| 90858-2029 | NATURAL | 1b 2a 4a | 01c 04c d50 | 1/2 4/5 | | K51 | 90858-2730 | A |
| 90858-2030 | NATURAL | 2b 3b 4a | 01c d20 d40 | 1/2 3/4 | | K52 | 90858-2729 | A |
| 90858-2031 | NATURAL | 1a 5b | 01c d20 03c d50 | 1/2 4/5 | | K86 | 90858-2728 | A |
| 90858-2032 | NATURAL | 1a 1b 4a | d30 04c d50 | 1/2 4/5 | | K64 | 90858-2727 | A |
| 90858-2033 | NATURAL | 1a 5b | 01c d20 03c d50 | 1/2 3/4 | | | 90858-2726 | B |

6 CIRCUIT

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

| PART NO. (TIN) | COLOUR | UNLOCKED POSITION KEYS | UNLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | P.C.B. POLARISATION OPTION |
|-------------------|---------|---------------------------|-------------------------|-------------------|------------------------------|-----|----------------------|----------------------------------|
| 90858-2753 | NATURAL | 1b | 03c d60 | 1/2 4/5 | | K01 | 90858-3499 | A |
| 90858-2754 | NATURAL | 1a 3b 4b | 01c d50 06c | 1/2 4/5 | | K30 | 90858-3498 | A |
| 90858-2755 | NATURAL | 1a 1b 2b 3a 3b 4b | d30 04c d50 | 1/2 2/3 4/5 | | K37 | 90858-3497 | A |
| 90858-2756 | NATURAL | 1a 1b 4a 4b | d10 d50 | 2/3 4/5 | | K39 | 90858-3496 | A |
| 90858-2757 | NATURAL | 2a 4b 5a 6b | d20 03c 05c | 1/2 3/4 5/6 | | K42 | 90858-3495 | A |
| 90858-2758 | NATURAL | 1a 2b 3a 3b 5b 6b | 01c d40 d60 | 1/2 3/4 5/6 | | K43 | 90858-3494 | A |
| 90858-2759 | NATURAL | 1b 2a 3a 4b 5a 5b 6b | 01c 03c d60 | 1/2 3/4 5/6 | | K44 | 90858-3493 | A |
| 90858-2761 | NATURAL | 2b | d20 d60 | 1/2 5/6 | | K46 | 90858-3492 | A |
| 90858-2762 | NATURAL | 2b 3b 4a | 01c d50 06c | 1/2 4/5 | | K36 | 90858-3491 | A |
| 90858-2768 | NATURAL | 1b 4b | d20 03c d50 06c | 1/2 4/5 | | K58 | 90858-3486 | A |
| 90858-2769 | NATURAL | 1a 2b 3b 4a 6b | 01c 03c d40 05c d60 | 1/2 3/4 5/6 | | K59 | 90858-3485 | A |
| 90858-2770 | NATURAL | 1a 2b 4a 6b | 01c d40 | 1/2 3/4 5/6 | | K62 | 90858-3484 | A |
| 90858-2771 | NATURAL | 1b 6b | d40 | 1/2 5/6 | | K04 | 90858-3483 | A |
| 90858-2772 | NATURAL | 1b 2a 3a 4b 5a 5b 6b | 01c d60 | 2/3 5/6 | | K15 | 90858-3482 | A |
| | | | | | | | | |
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|--|-------------------------------|--|---------------------------------------|---|--------------------------|------------------------------|---|
| SEE SHEET 1 EC NO: E2010-0370 DRW:BRUTTE 2010/05/13 CHKD:JDENNEY 2004/05/27 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 ° | DIMENSION STYLE MM ONLY | SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | |
| | | DRAWN BY DATE NMCNAMAR 2004/05/26 | CHECKED BY DATE JDENNEY 2004/05/27 | APPROVED BY DATE BMAGUIRE 2004/05/28 | TITLE RAST 5 VERT HDR | MOLEX INCORPORATED | SHEET NO. 4 OF 7 |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | SEE CHART | DOCUMENT NO. SD-90858-001 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |
| | | SIZE 1 | | | | | |

| 7 CIRCUIT | | | | | | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | P.C.B. POLARISATION OPTION |
|----------------|---------|-------------------------|-----------------------|----------------|---------------------------|--|-------------------|----------------------------|
| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | |
| 90858-3511 | NATURAL | NONE | 03c d40 07c | 1/2 5/6 | | K01 | 90858-4249 | A |
| 90858-3512 | NATURAL | 3a 4a | d30 d70 | 1/2 5/6 | | K30 | 90858-4248 | A |
| 90858-3504 | NATURAL | 2b | d20 d60 | 1/2 5/6 | | K32 | 90858-4247 | A |
| 90858-3508 | NATURAL | 1a 1b 3a 4b 5a | 01c 07c | 1/2 3/4 5/6 | | K40 | 90858-4243 | A |
| 90858-3509 | NATURAL | 2a | 01c d50 | 2/3 4/5 | | K41 | 90858-4242 | A |
| 90858-3515 | NATURAL | 7b | 01c d40 d70 | 1/2 3/4 6/7 | | K43 | 90858-4240 | A |
| 90858-3516 | NATURAL | 1b | 03c d60 | 1/2 4/5 | | K31 | 90858-4239 | A |
| 90858-3517 | NATURAL | 1a 3a 4b 7b | 01c d20 03c 06c | 1/2 3/4 6/7 | | K45 | 90858-4238 | A |
| 90858-3519 | NATURAL | 1b 7a | 02c d50 | 2/3 6/7 | | K48 | 90858-4237 | A |
| 90858-3521 | NATURAL | 1a 2b 3a 4b 6a | d20 03c d40 d50 d70 | 1/2 3/4 6/7 | | K51 | 90858-4236 | A |
| 90858-3522 | NATURAL | 1b 6a | d20 03c d50 d70 | 1/2 3/4 6/7 | | K69 | 90858-4235 | A |
| 90858-3523 | NATURAL | 1b 2a 5a 5b 7b | d20 d50 06c d70 | 1/2 4/5 6/7 | | K34 | 90858-4234 | A |
| 90858-3524 | NATURAL | 2b | d20 07c | 1/2 3/4 5/6 | | K35 | 90858-4233 | A |
| 90858-3525 | NATURAL | 2a 2b 4b 5b 6a | d20 03c d40 d60 | 1/2 3/4 5/6 | | K38 | 90858-4232 | A |
| 90858-3526 | NATURAL | 2b 4a 4b 5b 6a | 01c d20 d40 d60 | 1/2 3/4 5/6 | | K42 | 90858-4231 | A |
| | | | | | | | | |

| 8 CIRCUIT | | | | | | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | P.C.B. POLARISATION OPTION |
|----------------|---------|-------------------------|-----------------------|-----------------|---------------------------|--|-------------------|----------------------------|
| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | |
| 90858-4252 | NATURAL | 4a 6b | 03c d60 | 1/2 3/4 5/6 7/8 | | K30 | 90858-4998 | A |
| 90858-4253 | NATURAL | 1a 2a 3a 3b 6a 7a 7b 8b | 01c 05c d60 | 1/2 3/4 5/6 7/8 | | K33 | 90858-4996 | A |
| 90858-4257 | NATURAL | 2b 3b 4b 5a 5b 7a 8b | 01c d60 d80 | 1/2 4/5 7/8 | | K41 | 90858-4995 | A |
| 90858-4259 | NATURAL | 1b 4b 7b 8b | 01c d20 04c d50 07c | 1/2 4/5 7/8 | | K45 | 90858-4993 | A |
| 90858-4260 | NATURAL | 1a 1b 3b 5a 6b 7a 8b | 01c 03c d40 d60 | 1/2 3/4 5/6 7/8 | | K46 | 90858-4992 | A |
| 90858-4262 | NATURAL | 1b 5a 6b 8a | 03c d40 05c 07c d80 | 1/2 3/4 5/6 7/8 | | K48 | 90858-4991 | A |
| 90858-4265 | NATURAL | 8b | 02c d30 07c | 2/3 7/8 | | | 90858-4999 | A |
| 90858-4266 | NATURAL | 1a 4b 5b 6a 8b | d40 d60 07c d80 | 1/2 3/4 5/6 7/8 | | K44 | 90858-4990 | A |
| 90858-4267 | NATURAL | 8b | 02c d30 | 2/3 | | K49 | 90858-4989 | A |
| 90858-4268 | NATURAL | 2b 8a | 03c d60 | 1/2 7/8 | | K43 | 90858-4988 | A |
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| SEE SHEET 1 ELEC NO: E2010-0370 DRAWN/BRITTLE: 2010/05/13 CHKD: JDENNEHY 2004/05/27 APPR: BMAGUIRE 2010/06/08 | QUALITY SYMBOLS DESCRIPTION REV | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 2° | DIMENSION STYLE MM ONLY DRAWN BY DATE NMCNAMAR 2004/05/26 CHECKED BY DATE JDENNEHY 2004/05/27 APPROVED BY DATE BMAGUIRE 2004/05/28 | SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION | TITLE RAST 5 VERT HDR | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-90858-001 | SHEET NO. 5 OF 7 | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | | | |
| | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | |
| | | MOLEX INCORPORATED | | | | | | | |
| | | MOLEX INCORPORATED | | | | | | | |

| 9 CIRCUIT | | | | | | | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | P.C.B. POLARISATION OPTION |
|-------------------|---------|----------------------------------|--------------------------|------------------------|------------------------------|-----|---|---|----------------------------------|
| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | | |
| 90858-5002 | NATURAL | 1a 2a 2b 3a 3b 6a 7a 8b 9b | d20 03c d40 d50 d90 | 1/2 3/4 6/7 7/8 8/9 | | K30 | 90858-5997 | A | |
| 90858-5003 | NATURAL | 1b 2a 3b 5a 6a 7b 8a 8b | 01c 03c d70 08c | 1/2 3/4 6/7 8/9 | | K31 | 90858-5996 | A | |
| 90858-5004 | NATURAL | 1b 2a 3a 5a 6a 7b 8b | 01c 03c d70 08c d90 | 1/2 3/4 6/7 8/9 | | K32 | 90858-5995 | A | |
| 90858-5005 | NATURAL | 1a 1b 3a 4b 5a 6b 7a | 01c d40 09c | 1/2 3/4 5/6 7/8 | | K37 | 90858-5994 | A | |
| 90858-5006 | NATURAL | 1b 5a 8a 9a | 03c d40 d60 08c | 1/2 3/4 5/6 8/9 | | K38 | 90858-5993 | A | |
| 90858-5007 | NATURAL | 2a 4b 5a 6b 7a 9a | d20 05c 07c | 1/2 3/4 5/6 7/8 | | K39 | 90858-5992 | A | |
| 90858-5009 | NATURAL | 5b | d30 d70 | 1/2 6/7 | | K04 | 90858-5989 | A | |
| 90858-5012 | NATURAL | 2b 3b 4a 5a 6b | d10 02c 04c 08c d90 | 2/3 4/5 6/7 8/9 | | K40 | 90858-5988 | A | |
| 90858-5011 | NATURAL | 2b 5a | d80 | 2/3 7/8 | | K03 | 90858-5987 | A | |
| 90858-5010 | NATURAL | 2b 3b 4b 6a | 01c d20 d40 05c d90 | 1/2 3/4 6/7 8/9 | | K49 | 90858-5986 | A | |
| 90858-5013 | NATURAL | 1b 2a 4b 5a 8b 9b | 01c d20 d70 08c | 1/2 4/5 6/7 8/9 | | K58 | 90858-5985 | A | |
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| 10 CIRCUIT | | | | | | | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | P.C.B. POLARISATION OPTION |
|-------------------|---------|--|-----------------------------------|-------------------------|------------------------------|-----|---|---|----------------------------------|
| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | | |
| 90858-6002 | NATURAL | 2a 3b 6a 9a | 03c d80 | 1/2 4/5 6/7 9/10 | | K30 | 90858-6997 | A | |
| 90858-6003 | NATURAL | 1a 3b 7b 9b | 01c d20 d40 05c 07c | 1/2 3/4 5/6 7/8 9/10 | | K35 | 90858-6996 | A | |
| 90858-6009 | NATURAL | 1b 2a 2b 4a 5b 6a 8a 9a 10a | d30 04c 06c 09c | 1/2 4/5 6/7 9/10 | | K41 | 90858-6988 | A | |
| 90858-6010 | NATURAL | 1a 3b 4b 8a 10a 10b | 01c d50 06c 07c d80 09c | 1/2 4/5 7/8 9/10 | | K42 | 90858-6987 | A | |
| 90858-6012 | NATURAL | 2a 4b 8a 10a | d20 05c d70 08c | 1/2 3/4 5/6 8/9 | | K44 | 90858-6986 | A | |
| 90858-6015 | NATURAL | 1b 2a 3a 4b 5b 9a | 01c d40 d60 07c 09c d100 | 1/2 3/4 5/6 7/8 9/10 | | K48 | 90858-6983 | A | |
| 90858-6016 | NATURAL | 1a 4b 6b 9a | 03c 04c d50 06c d70 08c d90 | 1/2 4/5 6/7 8/9 | | K36 | 90858-6982 | A | |
| 90858-6021 | NATURAL | 1a 3b 7b 8a | 01c d20 d40 05c d100 | 1/2 3/4 5/6 7/8 9/10 | | K33 | 90858-6977 | A | |
| 90858-6022 | NATURAL | 10a | d20 08c | 1/2 9/10 | | K56 | 90858-6976 | A | |
| 90858-6023 | NATURAL | 1b 3b 5b 9a | 01c d60 07c 09c d100 | 1/2 3/4 5/6 7/8 9/10 | | K36 | 90858-6975 | A | |
| 90858-6024 | NATURAL | 1b 2b 4a 7a 9a 9b | d20 d30 d50 06c d70 d80 | 1/2 4/5 6/7 9/10 | | K43 | 90858-6974 | A | |
| 90858-6025 | NATURAL | 1a 2a 2b 3a 4a 4b 5a 6a 6b 7a 8a 8b 9a 10a 10b | NONE | 1/2 3/4 5/6 7/8 9/10 | | K45 | 90858-6973 | A | |
| 90858-6026 | NATURAL | 2a 2b 3a 4a 5a 9a 10a | d20 d40 07c d70 08c d100 | 1/2 3/4 5/6 8/9 | | K46 | 90858-6972 | A | |
| 90858-6027 | NATURAL | 1b 2a 3a 4b 6a 7a 8a 8b | 01c d40 d60 d80 | 1/2 3/4 5/6 9/10 | | K49 | 90858-6971 | A | |
| 90858-6028 | NATURAL | 1b 5a 8b 9a 10b | 03c d40 d80 09c | 1/2 3/4 5/6 7/8 9/10 | | K50 | 90858-6970 | A | |
| 90858-6029 | NATURAL | 1b 3a 4a 4b 6b 9a 9b | 01c d50 06c d70 09c | 1/2 4/5 6/7 9/10 | | K51 | 90858-6969 | A | |
| 90858-6030 | NATURAL | 1b 4a 7a 9a | 01c d20 06c d80 09c | 1/2 4/5 7/8 9/10 | | K52 | 90858-6968 | A | |

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|--|--|-------------------------------|--|----------------------------|---|------------------------|--------------------------|--|
| SEE SHEET 1 EC NO: E2010-0370 DRAWN: BRUTTE CHKD: JENNEHY APPR: BMAGUIRE | 2010/05/13 2004/05/27 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 ° | DIMENSION STYLE MM ONLY | SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | |
| | DRAWN BY DATE NMCNAMAR 2004/05/26 | | CHECKED BY DATE JDENNEHY 2004/05/27 | | APPROVED BY DATE BMAGUIRE 2004/05/28 | | TITLE RAST 5 VERT HDR | |
| | MATERIAL NO. | | SEE CHART | | DOCUMENT NO. SD-90858-001 | | MOLEX INCORPORATED | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | SHEET NO. 6 OF 7 | | | |

11 CIRCUIT

| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | P.C.B. POLARISATION OPTION | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | |
|----------------|---------|--|--|------------------------------|---------------------------|-----|-------------------|----------------------------|--|-----------------------|----------------|
| | | | | | | | | | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION |
| 90858-7001 | NATURAL | 1a 2b 3c 4a 4b 5a 7a 8a 9a 10a 11a | 01c d40 05c 08c 010c | 3/4 8/9 | | K33 | 90858-7998 | A | | | |
| 90858-7002 | NATURAL | 1a 1b 6b 7a 10a 11b | 03c d40 d90 | 1/2 3/4 5/6 7/8 8/9 10/11 | | K30 | 90858-7997 | A | | | |
| 90858-7003 | NATURAL | 1a 2b 3c 4a 4b 5a 7a 8a 9a 10a 11a | 01c d40 05c 08c 010c | 1/2 3/4 5/6 8/9 10/11 | | K31 | 90858-7996 | A | | | |
| 90858-7004 | NATURAL | 2a 3b 4a 4b 5a 6b7a 7b 10a 11b | 01c d20 d40 d60 07c d90 010c | 1/2 3/4 5/6 7/8 10/11 | | K32 | 90858-7995 | A | | | |
| 90858-7005 | NATURAL | 2a 3b 4a 4b 6a 6b 8b 10a 11a | 01c d20 d40 d60 07c d90 010c | 1/2 3/4 6/7 8/9 10/11 | | K34 | 90858-7994 | A | | | |
| 90858-7007 | NATURAL | 2a 4b 5b 7b 8a 11b | d10 d30 d50 d80 010c d110 | 2/3 4/5 7/8 10/11 | | K36 | 90858-7992 | A | | | |
| 90858-7008 | NATURAL | 1b 3a 4b 6a 7b 9b | 01c d20 d40 d60 07c d90 d80 09c d100 | 1/2 3/4 5/6 7/8 9/10 | | K37 | 90858-7991 | A | | | |
| 90858-7009 | NATURAL | 2a 6a 8a 11b | 01c d50 d90 d110 | 2/3 4/5 6/7 8/9 10/11 | | K38 | 90858-7990 | A | | | |
| 90858-7010 | NATURAL | 1a 4a 6a 8a 11b | d30 d90 d110 | 1/2 4/5 6/7 8/9 10/11 | | K39 | 90858-7989 | A | | | |
| 90858-7014 | NATURAL | 1a 1b 2b 4a 5a 8b 9b | 02c d80 09c d100 | 2/3 5/6 7/8 9/10 | | K46 | 90858-7985 | A | | | |
| 90858-7015 | NATURAL | 1b 5b 6b 8b 9b 10a 10b | 01c d20 d40 05c d70 08c 010c | 1/2 5/6 8/9 10/11 | | K47 | 90858-7984 | A | | | |
| 90858-7016 | NATURAL | 1a 2b 3b 5a 6b 8a 9b | d20 03c 06c 09c d100 | 1/2 3/4 6/7 9/10 | | K44 | 90858-7983 | A | | | |
| 90858-7017 | NATURAL | 1b 4a 7b 9b 10b | 01c d20 04c d80 09c 011c d110 | 1/2 4/5 6/7 9/10 | | K45 | 90858-7982 | A | | | |
| 90858-7013 | NATURAL | 1b 11b | 03c d90 | 3/4 8/9 | | K43 | 90858-7986 | A | | | |
| 90858-7018 | NATURAL | 1b 2a 3a 4b 6b | 01c d40 d60 011c | 1/2 3/4 5/6 7/8 9/10 | | K35 | 90858-7981 | A | | | |
| 90858-7019 | NATURAL | 1b 3a 4b 7a 10b | 01c 04c d50 07c | 1/2 4/5 7/8 9/10 | | K40 | 90858-7980 | A | | | |
| 90858-7020 | NATURAL | 1b 2a 3a 4b 6b 7a 8a 8b | 01c d40 d60 d80 011c | 1/2 3/4 5/6 9/10 | | K42 | 90858-7979 | A | | | |

12 CIRCUIT

| PART NO. (TIN) | COLOUR | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | P.C.B. POLARISATION OPTION | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS | | |
|----------------|---------|---|-------------------------------------|-------------------------------|---------------------------|-----|-------------------|----------------------------|--|-----------------------|----------------|
| | | | | | | | | | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION |
| 90858-8002 | NATURAL | 1b 7a 8b 12b | d10 06c 09c d100 d120 | 2/3 4/5 7/8 11/12 | | K30 | 90858-8997 | A | | | |
| 90858-8003 | NATURAL | 2a 4b 5b 6b 7a 10b 12a 12b | d10 d30 d50 d70 09c d100 d120 | 2/3 4/5 6/7 9/10 11/12 | | K34 | 90858-8996 | A | | | |
| 90858-8004 | NATURAL | 1a 3b 7b 9b 11b 12a | 01c d20 d40 05c 07c 011c | 1/2 3/4 5/6 7/8 9/10 11/12 | | K44 | 90858-8995 | A | | | |
| 90858-8005 | NATURAL | 1b 2a 2b 4a 5b 6a 8a 9a 10a 11a 12b | d30 04c 06c 09c 011c | 1/2 4/5 6/7 9/10 11/12 | | K46 | 90858-8994 | A | | | |
| 90858-8007 | NATURAL | 2b 3b 4a 8b 9b 11a | 01c d20 d40 d90 d100 d120 | 1/2 3/4 8/9 11/12 | | K49 | 90858-8992 | A | | | |
| 90858-8008 | NATURAL | 1a 2b 3a 5b 11b 12a | 01c 03c d40 d60 07c 09c | 1/2 3/4 5/6 7/8 9/10 11/12 | | K47 | 90858-8991 | A | | | |
| 90858-8009 | NATURAL | 1a 5b 7b | 01c d30 04c d70 012c | 2/3 4/5 6/7 8/9 10/11 | | K50 | 90858-8990 | A | | | |
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| <p>SEE SHEET 1 E.C. NO: E2010-0370 DRW:BRUTLE 2010/05/13 CHKD:JDENNEY 2004/05/27 APPR:BMAGUIRE 2010/06/08</p> | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 2 ° | | DIMENSION STYLE MM ONLY DRAWN BY DATE MCMNAMAR 2004/05/26 CHECKED BY DATE JDENNEY 2004/05/27 APPROVED BY DATE BMAGUIRE 2004/05/28 | SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION | TITLE RAST 5 VERT HDR | MATERIAL NO. SEE CHART DOCUMENT NO. SD-90858-001 SHEET NO. 7 OF 7 | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |
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