



RECOMMENDED P.C. BOARD LAYOUT

| CKT. SIZE | DIMENSION A | | DIMENSION B | |
|-----------|-------------|--------|-------------|--------|
| | (MM) | (INCH) | (MM) | (INCH) |
| 4 | (2.54) | .100 | (4.83) | .190 |
| 6 | (5.08) | .200 | (7.37) | .290 |
| 8 | (7.62) | .300 | (9.91) | .390 |
| 10 | (10.16) | .400 | (12.45) | .490 |
| 12 | (12.70) | .500 | (14.99) | .590 |
| 14 | (15.24) | .600 | (17.53) | .690 |
| 16 | (17.78) | .700 | (20.07) | .790 |
| 18 | (20.32) | .800 | (22.61) | .890 |
| 20 | (22.86) | .900 | (25.15) | .990 |
| 22 | (25.40) | 1.000 | (27.69) | 1.090 |
| 24 | (27.94) | 1.100 | (30.23) | 1.190 |
| 26 | (30.48) | 1.200 | (32.77) | 1.290 |
| 28 | (33.02) | 1.300 | (35.31) | 1.390 |
| 30 | (35.56) | 1.400 | (37.85) | 1.490 |
| 32 | (38.10) | 1.500 | (40.39) | 1.590 |
| 34 | (40.64) | 1.600 | (42.93) | 1.690 |
| 36 | (43.18) | 1.700 | (45.47) | 1.790 |
| 38 | (45.72) | 1.800 | (48.01) | 1.890 |
| 40 | (48.26) | 1.900 | (50.55) | 1.990 |
| 42 | (50.80) | 2.000 | (53.09) | 2.090 |
| 44 | (53.34) | 2.100 | (55.63) | 2.190 |
| 46 | (55.88) | 2.200 | (58.17) | 2.290 |
| 48 | (58.42) | 2.300 | (60.71) | 2.390 |
| 50 | (60.96) | 2.400 | (63.25) | 2.490 |
| 52 | (63.50) | 2.500 | (65.79) | 2.590 |
| 54 | (66.04) | 2.600 | (68.33) | 2.690 |
| 56 | (68.58) | 2.700 | (70.87) | 2.790 |
| 58 | (71.12) | 2.800 | (73.41) | 2.890 |
| 60 | (73.66) | 2.900 | (75.95) | 2.990 |
| 62 | (76.20) | 3.000 | (78.49) | 3.090 |
| 64 | (78.74) | 3.100 | (81.03) | 3.190 |
| 66 | (81.28) | 3.200 | (83.57) | 3.290 |
| 68 | (83.82) | 3.300 | (86.11) | 3.390 |
| 70 | (86.36) | 3.400 | (88.65) | 3.490 |
| 72 | (88.90) | 3.500 | (91.19) | 3.590 |
| 74 | (91.44) | 3.600 | (93.73) | 3.690 |
| 76 | (93.98) | 3.700 | (96.27) | 3.790 |
| 78 | (96.52) | 3.800 | (98.81) | 3.890 |
| 80 | (99.06) | 3.900 | (101.35) | 3.990 |

| | |
|----|--|
| P | LEAD FREE UCP2004-1770 RWHITE 04/04/23 |
| O | ADD A-8624-1246 ECN #UCP2003-0823 DMORGAN 03/10/28 |
| N | ADD A-8624-1325 ECN #UCP2004-0001 DMORGAN 03/07/17 |
| M | ADD 086241275 S.6 ECN #UCP2003-2236 RWHITE 03/04/17 |
| LI | ADDED TOLERANCES ECN #UDT1999-0410 DMORGAN 98/12/02 |
| L | ADD NEW 8 CKT OPT ECN #UDT1999-0206 DMORGAN 98/09/16 |
| K | CREATED SHEET 7 ECN #UB0308 MCCRATH 97/07/15 |
| JI | ADD A-8624-1253 ECN #U7-0642 MCFARLAN 97/1/13 |
| J | REVISED PER ECR # U40146 SCARTH 96/12/04 |
| I | REVISED PER ECR NO U73000 BARKER 10/28/96 |
| H | REVISED PER ECR NO U61415 TSE 05/10/96 |
| G | REVISED PLATE 588 PER ECR NO U60907 96/02/01 BMS |
| F | CHANGED PACKAGING PER ECR NO U160549 11-03-95 DB/BJS |
| E3 | ADDED -1201/-1240 PER ECR NO U60344 09-11-95 BJS |
| E2 | ADDED EDP NO'S PER ECR # U60272 95/08/25 CAC |
| E1 | ADDED EDP - 8032 PER ECR #U51312 95/06/29 CAC |
| E | CHANGED PIN DIMEN PER ECR NO U50305 10-04-94 BJS |
| D1 | ADDED -0681/-0720 PER ECR NO U50168 09-09-94 BJS |
| D | REVISED NOTE #6 PER ECR #U40640 06/16/94 BARKER |
| C1 | ADDED -09288-0933 PER ECR #U40683 05/27/94 REED |
| C | DELETED/ADDED EDP'S PER ECR #U40295 03/01/94 REED |
| BI | ADDED EDP NOS. PER ECR # U31521 10/15/93 REED |
| B | REVISED PER ECR # U30385 05/17/93 REED |
| A | RELEASED PER ECR # U30114 02/03/93 MGB |

NOTES:

- PIN PUSHOUT FORCE: 4 LBS. MINIMUM (IN EITHER DIRECTION)
- FOR ILLUSTRATION PURPOSES, 20 (DUAL 10) CIRCUIT SIZE IS SHOWN.
- PINS MUST MEET MOLEX SOLDERABILITY SPECIFICATION ES-152, EXCEPT VOIDS ARE PERMISSIBLE AT BANDOLIER PIN FAYING SURFACE (APPROX. .025 LONG X .006 WIDE REF.- 2 LOCATIONS).
- MEASURE POINT FOR PLATING THICKNESS.
- THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-8624.
- PACKAGING INFORMATION: (UNLESS OTHERWISE NOTED IN TABLES) PER PACKAGING DRAWING NO. PK-70873-0353 BULK PACKAGED IN BAGS

MATERIAL:

WAFER - GLASS FILLED POLYESTER; UL94V-0; COLOR: BLACK
PIN - PHOSPHOR BRONZE

PLATING:

- TIN - .000150 MINIMUM TIN PLATE OVER .000050 MINIMUM NICKEL PLATE.
- 15 GOLD - .000015 MINIMUM GOLD PLATE IN SELECT AREA, .000075 MINIMUM TIN PLATE IN SELECT AREA, OVER .000050 MINIMUM NICKEL PLATE OVERALL.
- 30 GOLD - .000030 MINIMUM GOLD PLATE IN SELECT AREA, .000075 MINIMUM TIN PLATE IN SELECT AREA, OVER .000050 MINIMUM NICKEL PLATE OVERALL.
- D30 GOLD - .000030 MINIMUM GOLD PLATE IN SELECT AREAS OVER .000050 MINIMUM NICKEL PLATE OVERALL.
- 5 GOLD - .000005 MINIMUM GOLD FLASH IN SELECT AREA, .000075 MINIMUM TIN PLATE IN SELECT AREA, OVER .000050 MINIMUM NICKEL PLATE OVERALL.

*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.

SALES ASSY-DUAL ROW WAFER W/BREAK-OFF OPTION .025 SQ. PINS/.100 GRID

MOLEX INCORPORATED

SEE CHARTS SDA-8624-0001-5000

DRWG. NO. 1 OF 7 11/30/88

FILE NAME: S8624X1

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

| 13 | | 12 | | 11 | | 10 | | 9 | | 8 | | 7 | | 6 | | 8624 | | 4 | | 3 | | 2 | | 1 | |
|----|------------------------------|----------------------------|-----------------------|-----------------------|------------------------|--------|------------|------|------------|---------|------|----------------|-----|----------------|--|------|-----------------------|---|------------------------|---|--|---|---|---|------------------------------------|
| J | ENGINEERING NUMBER A-8624 | RELEASE FOR MANUFACTURE | | | | | | | | | | | | | | | CONNECTOR END PLATING | | P.C. BOARD END PLATING | | | | FOR PACKAGING INFORMATION, SEE NOTE 6, SHEET 1 (UNLESS OTHERWISE SPECIFIED BELOW) | | |
| | | | C ± (0.38) .015 | E ± (0.25) .010 | F ± (0.25) .010 | TYPE | H MEAS. | TYPE | K MEAS. | | | | | | | | | | | | | | | | |
| | -0561/-0600 | R.F.M. | (4.70) .185 | (15.11) .595 | (8.13) .320 | | | | | 30 GOLD | GOLD | (4.57) .180 | TIN | (1.27) .050 | | | | | | | | | | | |
| I | -0641/-0680 | R.F.M. | (2.72) .107 | (11.10) .437 | (6.10) .240 | | | | | 5 GOLD | GOLD | (2.54) .100 | TIN | (1.27) .050 | | | | | | | | | | | |
| | -0681/-0720 | R.F.M. | (5.64) .222 | (15.75) .620 | (7.82) .308 | | | | | TIN | TIN | (2.54) .100 | TIN | (1.27) .050 | | | | | | | | | | | |
| H | -0721/-0760 | R.F.M. | (0.56) .022 MAX. | (13.21) .520 | (10.67) .420 ± .005 | (0.13) | | | | TIN | TIN | (2.54) .100 | N/A | N/A N/A | | | | | | | | | | | PK-70873-0688 ALL CIRCUIT SIZES |
| | -0761/-0800 | | | | | | | | | | | | | | | | | | | | | | | | |
| | -0801/-0840 | | | | | | | | | | | | | | | | | | | | | | | | |

| CKTS | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | CKTS |
|------|------------|-----------------|------------|------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|
| 02 | N.A. | A-8624-0561 | | | N.A. | A-8624-0641 | N.A. | A-8624-0681 | N.A. | A-8624-0721 | N.A. | A-8624-0761 | N.A. | A-8624-0801 | 02 | | | | | | | | | | |
| 04 | 10-89-2044 | A-8624-0562 | | | 10-89-9047 | A-8624-0642 | 10-89-9048 | A-8624-0682 | | A-8624-0722 | | A-8624-0762 | | A-8624-0802 | 04 | | | | | | | | | | |
| 06 | 10-89-2064 | A-8624-0563 | | | 10-89-9067 | A-8624-0643 | 10-89-9068 | A-8624-0683 | | A-8624-0723 | | A-8624-0763 | | A-8624-0803 | 06 | | | | | | | | | | |
| 08 | 10-89-2084 | A-8624-0564 | | | 10-89-9087 | A-8624-0644 | 10-89-9088 | A-8624-0684 | | A-8624-0724 | | A-8624-0764 | | A-8624-0804 | 08 | | | | | | | | | | |
| 10 | 10-89-2104 | A-8624-0565 | | | 10-89-9107 | A-8624-0645 | 10-89-9108 | A-8624-0685 | | A-8624-0725 | | A-8624-0765 | | A-8624-0805 | 10 | | | | | | | | | | |
| 12 | 10-89-2124 | A-8624-0566 | | | 10-89-9127 | A-8624-0646 | 10-89-9128 | A-8624-0686 | 10-89-7124 | A-8624-0726 | | A-8624-0766 | | A-8624-0806 | 12 | | | | | | | | | | |
| 14 | 10-89-2144 | A-8624-0567 | | | 10-89-9147 | A-8624-0647 | 10-89-9148 | A-8624-0687 | | A-8624-0727 | | A-8624-0767 | | A-8624-0807 | 14 | | | | | | | | | | |
| 16 | 10-89-2164 | A-8624-0568 | | | 10-89-9167 | A-8624-0648 | 10-89-9168 | A-8624-0688 | | A-8624-0728 | | A-8624-0768 | | A-8624-0808 | 16 | | | | | | | | | | |
| 18 | 10-89-2184 | A-8624-0569 | | | 10-89-9187 | A-8624-0649 | 10-89-9188 | A-8624-0689 | | A-8624-0729 | | A-8624-0769 | | A-8624-0809 | 18 | | | | | | | | | | |
| 20 | 10-89-2204 | A-8624-0570 | | | 10-89-9207 | A-8624-0650 | 10-89-9208 | A-8624-0690 | | A-8624-0730 | | A-8624-0770 | | A-8624-0810 | 20 | | | | | | | | | | |
| 22 | 10-89-2224 | A-8624-0571 | | | 10-89-9227 | A-8624-0651 | 10-89-9228 | A-8624-0691 | 10-89-7224 | A-8624-0731 | | A-8624-0771 | | A-8624-0811 | 22 | | | | | | | | | | |
| 24 | 10-89-2244 | A-8624-0572 | | | 10-89-9247 | A-8624-0652 | 10-89-9248 | A-8624-0692 | | A-8624-0732 | | A-8624-0772 | | A-8624-0812 | 24 | | | | | | | | | | |
| 26 | 10-89-2264 | A-8624-0573 | | | 10-89-9267 | A-8624-0653 | 10-89-9268 | A-8624-0693 | | A-8624-0733 | | A-8624-0773 | | A-8624-0813 | 26 | | | | | | | | | | |
| 28 | 10-89-2284 | A-8624-030 GOLD | | | 10-89-9287 | A-8624-0654 | 10-89-9288 | A-8624-0694 | | A-8624-0734 | | A-8624-0774 | | A-8624-0814 | 28 | | | | | | | | | | |
| 30 | 10-89-2304 | A-8624-0575 | | | 10-89-9307 | A-8624-0655 | 10-89-9308 | A-8624-0695 | | A-8624-0735 | | A-8624-0775 | | A-8624-0815 | 30 | | | | | | | | | | |
| 32 | 10-89-2324 | A-8624-0576 | | | 10-89-9327 | A-8624-0656 | 10-89-9328 | A-8624-0696 | | A-8624-0736 | | A-8624-0776 | | A-8624-0816 | 32 | | | | | | | | | | |
| 34 | 10-89-2344 | A-8624-0577 | | | 10-89-9347 | A-8624-0657 | 10-89-9348 | A-8624-0697 | | A-8624-0737 | | A-8624-0777 | | A-8624-0817 | 34 | | | | | | | | | | |
| 36 | 10-89-2364 | A-8624-0578 | | | 10-89-9367 | A-8624-0658 | 10-89-9368 | A-8624-0698 | | A-8624-0738 | | A-8624-0778 | | A-8624-0818 | 36 | | | | | | | | | | |
| 38 | 10-89-2384 | A-8624-0579 | | | 10-89-9387 | A-8624-0659 | 10-89-9388 | A-8624-0699 | | A-8624-0739 | | A-8624-0779 | | A-8624-0819 | 38 | | | | | | | | | | |
| 40 | 10-89-2404 | A-8624-0580 | | | 10-89-9407 | A-8624-0660 | 10-89-9408 | A-8624-0700 | | A-8624-0740 | | A-8624-0780 | | A-8624-0820 | 40 | | | | | | | | | | |
| 42 | 10-89-2424 | A-8624-0581 | | | 10-89-9427 | A-8624-0661 | 10-89-9428 | A-8624-0701 | | A-8624-0741 | | A-8624-0781 | | A-8624-0821 | 42 | | | | | | | | | | |
| 44 | 10-89-2444 | A-8624-0582 | | | 10-89-9447 | A-8624-0662 | 10-89-9448 | A-8624-0702 | | A-8624-0742 | | A-8624-0782 | | A-8624-0822 | 44 | | | | | | | | | | |
| 46 | 10-89-2464 | A-8624-0583 | | | 10-89-9467 | A-8624-0663 | 10-89-9468 | A-8624-0703 | | A-8624-0743 | | A-8624-0783 | | A-8624-0823 | 46 | | | | | | | | | | |
| 48 | 10-89-2484 | A-8624-0584 | | | 10-89-9487 | A-8624-0664 | 10-89-9488 | A-8624-0704 | | A-8624-0744 | | A-8624-0784 | | A-8624-0824 | 48 | | | | | | | | | | |
| 50 | 10-89-2504 | A-8624-0585 | | | 10-89-9507 | A-8624-0665 | 10-89-9508 | A-8624-0705 | | A-8624-0745 | | A-8624-0785 | | A-8624-0825 | 50 | | | | | | | | | | |
| 52 | 10-89-2524 | A-8624-0586 | | | 10-89-9527 | A-8624-0666 | 10-89-9528 | A-8624-0706 | | A-8624-0746 | | A-8624-0786 | | A-8624-0826 | 52 | | | | | | | | | | |
| 54 | 10-89-2544 | A-8624-0587 | | | 10-89-9547 | A-8624-0667 | 10-89-9548 | A-8624-0707 | | A-8624-0747 | | A-8624-0787 | | A-8624-0827 | 54 | | | | | | | | | | |
| 56 | 10-89-2564 | A-8624-0588 | | | 10-89-9567 | A-8624-0668 | 10-89-9568 | A-8624-0708 | | A-8624-0748 | | A-8624-0788 | | A-8624-0828 | 56 | | | | | | | | | | |
| 58 | 10-89-2584 | A-8624-0589 | | | 10-89-9587 | A-8624-0669 | 10-89-9588 | A-8624-0709 | | A-8624-0749 | | A-8624-0789 | | A-8624-0829 | 58 | | | | | | | | | | |
| 60 | 10-89-2604 | A-8624-0590 | | | 10-89-9607 | A-8624-0670 | 10-89-9608 | A-8624-0710 | | A-8624-0750 | | A-8624-0790 | | A-8624-0830 | 60 | | | | | | | | | | |
| 62 | 10-89-2624 | A-8624-0591 | | | 10-89-9627 | A-8624-0671 | 10-89-9628 | A-8624-0711 | | A-8624-0751 | | A-8624-0791 | | A-8624-0831 | 62 | | | | | | | | | | |
| 64 | 10-89-2644 | A-8624-0592 | | | 10-89-9647 | A-8624-0672 | 10-89-9648 | A-8624-0712 | | A-8624-0752 | | A-8624-0792 | | A-8624-0832 | 64 | | | | | | | | | | |
| 66 | 10-89-2664 | A-8624-0593 | | | 10-89-9667 | A-8624-0673 | 10-89-9668 | A-8624-0713 | | A-8624-0753 | | A-8624-0793 | | A-8624-0833 | 66 | | | | | | | | | | |
| 68 | 10-89-2684 | A-8624-0594 | | | 10-89-9687 | A-8624-0674 | 10-89-9688 | A-8624-0714 | | A-8624-0754 | | A-8624-0794 | | A-8624-0834 | 68 | | | | | | | | | | |
| 70 | 10-89-2704 | A-8624-0595 | | | 10-89-9707 | A-8624-0675 | 10-89-9708 | A-8624-0715 | | A-8624-0755 | | A-8624-0795 | | A-8624-0835 | 70 | | | | | | | | | | |
| 72 | 10-89-2724 | A-8624-0596 | | | 10-89-9727 | A-8624-0676 | 10-89-9728 | A-8624-0716 | | A-8624-0756 | | A-8624-0796 | | A-8624-0836 | 72 | | | | | | | | | | |
| 74 | 10-89-2744 | A-8624-0597 | | | 10-89-9747 | A-8624-0677 | 10-89-9748 | A-8624-0717 | | A-8624-0757 | | A-8624-0797 | | A-8624-0837 | 74 | | | | | | | | | | |
| 76 | 10-89-2764 | A-8624-0598 | | | 10-89-9767 | A-8624-0678 | 10-89-9768 | A-8624-0718 | | A-8624-0758 | | A-8624-0798 | | A-8624-0838 | 76 | | | | | | | | | | |
| 78 | 10-89-2784 | A-8624-0599 | | | 10-89-9787 | A-8624-0679 | 10-89-9788 | A-8624-0719 | | A-8624-0759 | | A-8624-0799 | | A-8624-0839 | 78 | | | | | | | | | | |
| 80 | 10-89-2804 | A-8624-0600 | | | 10-89-9807 | A-8624-0680 | 10-89-9808 | A-8624-0720 | | A-8624-0760 | | A-8624-0800 | | A-8624-0840 | 80 | | | | | | | | | | |

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|------|--|-------------|--|--|---|--|------------------------------|--|
| G | | SEE SHEET I | DIMENSIONS SHOWN (METRIC) INCH | | UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2° | | REVISIONS ONLY ON CAD SYSTEM | |
| F | | SEE SHEET I | INCH | | METRIC | | TITLE | |
| E | | SEE SHEET I | 5 PLACE ± | | ± | | SALES ASSY-DUAL ROW | |
| D | | SEE SHEET I | 2 PLACE ± | | ± | | WAFER W/BREAK-OFF OPTION | |
| C | | SEE SHEET I | 1 PLACE ± | | ± | | .025 SQ. PINS/100 GRID | |
| B | | SEE SHEET I | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | PART NO. | | DATE | |
| A | | SEE SHEET I | DRWG. NO. | | MOLEX INCORPORATED | | 08/15/88 | |
| LTR. | | REVISIONS | SEE CHART | | SDA-8624-0001-5000 | | DA C | |

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