



- NOTES:**
1. MATERIAL: SHROUDED WAFER: GLASS FILLED NYLON, COLOR: BLACK; UL94V-0  
PINS: PHOSPHOR BRONZE
  2. FINISH: SEE CHARTS
  3. PRODUCT SPECIFICATION: PS-8723
  4. PACKAGING INFORMATION: SEE CHARTS
  5. WINDOW NOT AVAILABLE ON 6 CKT.
  6. FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 2.
  7. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
  8. PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
  9. PINS MUST MEET SOLDERABILITY SPEC. MIL-STD-202 METHOD 208B.
  10. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
  11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

| CKT. | DIM. 'A'    | DIM. 'B'      | DIM. 'C'      | DIM. 'D'    | DIM. 'E'      | DIM. 'F'      | DIM. 'G'      |
|------|-------------|---------------|---------------|-------------|---------------|---------------|---------------|
| 06   | (1.68) .066 | (8.43) .332   | (5.08) .200   | (1.68) .066 | ---           | ---           | ---           |
| 08   | (1.68) .066 | (10.97) .432  | (7.62) .300   | (1.68) .066 | ---           | ---           | ---           |
| 10   | (1.68) .066 | (13.51) .532  | (10.16) .400  | (4.22) .166 | ---           | ---           | ---           |
| 12   | (1.68) .066 | (16.05) .632  | (12.70) .500  | (4.22) .166 | ---           | ---           | ---           |
| 14   | (1.68) .066 | (18.59) .732  | (15.24) .600  | (6.76) .266 | ---           | ---           | ---           |
| 16   | (1.68) .066 | (21.13) .832  | (17.78) .700  | (6.76) .266 | ---           | ---           | ---           |
| 18   | (1.68) .066 | (23.67) .932  | (20.32) .800  | (9.30) .366 | ---           | ---           | ---           |
| 20   | (1.68) .066 | (26.21) 1.032 | (22.86) .900  | (1.68) .066 | (19.46) .766  | ---           | ---           |
| 22   | (1.68) .066 | (28.75) 1.132 | (25.40) 1.000 | (1.68) .066 | (22.00) .866  | ---           | ---           |
| 24   | (1.68) .066 | (31.29) 1.232 | (27.94) 1.100 | (1.68) .066 | (24.54) .966  | (16.64) .655  | ---           |
| 26   | (1.68) .066 | (33.83) 1.332 | (30.48) 1.200 | (1.68) .066 | (27.08) 1.066 | (16.64) .655  | ---           |
| 28   | (1.68) .066 | (36.37) 1.432 | (33.02) 1.300 | (1.68) .066 | (29.62) 1.166 | (16.64) .655  | ---           |
| 30   | (1.68) .066 | (38.91) 1.532 | (35.56) 1.400 | (1.68) .066 | (32.16) 1.266 | (16.64) .655  | ---           |
| 32   | (1.68) .066 | (41.45) 1.632 | (38.10) 1.500 | (1.68) .066 | (34.70) 1.366 | (16.64) .655  | ---           |
| 34   | (1.68) .066 | (43.99) 1.732 | (40.64) 1.600 | (1.68) .066 | (37.24) 1.466 | (16.64) .655  | (16.76) .660  |
| 36   | (1.68) .066 | (46.53) 1.832 | (43.18) 1.700 | (1.68) .066 | (39.78) 1.566 | (16.64) .655  | (16.76) .660  |
| 38   | (1.68) .066 | (49.07) 1.932 | (45.72) 1.800 | (1.68) .066 | (42.32) 1.666 | (16.64) .655  | (16.76) .660  |
| 40   | (1.68) .066 | (51.61) 2.032 | (48.26) 1.900 | (1.68) .066 | (44.86) 1.766 | (16.64) .655  | (16.76) .660  |
| 42   | (1.68) .066 | (54.15) 2.132 | (50.80) 2.000 | (1.68) .066 | (47.40) 1.866 | (16.64) .655  | (16.76) .660  |
| 44   | (1.68) .066 | (56.69) 2.232 | (53.34) 2.100 | (1.68) .066 | (49.94) 1.966 | (19.05) .755  | (16.76) .660  |
| 46   | (1.68) .066 | (59.23) 2.332 | (55.88) 2.200 | (1.68) .066 | (52.48) 2.066 | (19.05) .755  | (16.76) .660  |
| 48   | (1.68) .066 | (61.77) 2.432 | (58.42) 2.300 | (1.68) .066 | (55.02) 2.166 | (19.05) .755  | (16.76) .660  |
| 50   | (1.68) .066 | (64.31) 2.532 | (60.96) 2.400 | (1.68) .066 | (57.56) 2.266 | (19.05) .755  | (16.76) .660  |
| 52   | (1.68) .066 | (66.85) 2.632 | (63.50) 2.500 | (1.68) .066 | (60.10) 2.366 | (19.05) .755  | (16.76) .660  |
| 54   | (1.68) .066 | (69.39) 2.732 | (66.04) 2.600 | (1.68) .066 | (62.64) 2.466 | (21.59) .850  | (21.84) .860  |
| 56   | (1.68) .066 | (71.93) 2.832 | (68.58) 2.700 | (1.68) .066 | (65.18) 2.566 | (21.59) .850  | (21.84) .860  |
| 58   | (1.68) .066 | (74.47) 2.932 | (71.12) 2.800 | (1.68) .066 | (67.72) 2.666 | (27.81) 1.095 | (26.92) 1.060 |
| 60   | (1.68) .066 | (77.01) 3.032 | (73.66) 2.900 | (1.68) .066 | (70.26) 2.766 | (27.81) 1.095 | (26.92) 1.060 |
| 62   | (1.68) .066 | (79.55) 3.132 | (76.20) 3.000 | (1.68) .066 | (72.80) 2.866 | (27.81) 1.095 | (26.92) 1.060 |
| 64   | (1.68) .066 | (82.09) 3.232 | (78.74) 3.100 | (1.68) .066 | (75.34) 2.966 | (27.81) 1.095 | (26.92) 1.060 |
| 66   | (1.68) .066 | (84.63) 3.332 | (81.28) 3.200 | (1.68) .066 | (77.88) 3.066 | (27.81) 1.095 | (26.92) 1.060 |
| 68   | (1.68) .066 | (87.17) 3.432 | (83.82) 3.300 | (1.68) .066 | (80.42) 3.166 | (27.81) 1.095 | (26.92) 1.060 |
| 70   | (1.68) .066 | (89.71) 3.532 | (86.36) 3.400 | (1.68) .066 | (82.96) 3.266 | (27.81) 1.095 | (26.92) 1.060 |
| 72   | (1.68) .066 | (92.25) 3.632 | (88.90) 3.500 | (1.68) .066 | (85.50) 3.366 | (27.81) 1.095 | (26.92) 1.060 |

**ASSEMBLY STYLES "A", "B", AND "G"**

|   |   |   |  |   |  |                          |  |                             |  |   |  |  |  |
|---|---|---|--|---|--|--------------------------|--|-----------------------------|--|---|--|--|--|
| <b>ADD NOTES</b><br>IEC NO. UC72008-1539<br>DRAWN/ADDER<br>CHYD/BELL<br>APPROV/FSM/TH<br>2008/01/28<br>2008/01/31<br>2008/02/08 | <b>QUALITY SYMBOLS</b><br>0 = 0<br>1 = 0<br>2 = 0 | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b><br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .010<br>2 PLACES ± 0.25 ± .014<br>1 PLACE ± 0.36 ± ---<br>ANGULAR ±1/2° |  | <b>DIMENSION STYLE</b><br>MM/IN   |  | <b>SCALE</b><br>4:1      |  | <b>DESIGN UNITS</b><br>INCH |  | THIRD ANGLE PROJECTION  |  |  |  |
|   |   | DRAWN BY: JL DATE: 1986/06/26<br>CHECKED BY: RB DATE: 1986/06/26<br>APPROVED BY: DATE: 1986/06/26   |  | MATERIAL NO. SEE CHART<br>DOCUMENT NO. SDA-8724-*****   |  | MOLEX MOLEX INCORPORATED |  | SHEET NO. 1 OF 8            |  | SALES ASSEMBLY<br>WAFER-RIGHT ANGLE FULLY<br>SHROUDED .100 GRID |  |  |  |
|   |   | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS   |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                          |  |                             |  |   |  |  |  |
|   |   |   |  |   |  |                          |  |                             |  |   |  |  |  |

| NO. OF CKTS | TIN        |               | TIN           |               | 15 GOLD       |               | 15 GOLD       |               | 30 GOLD       |               | 30 GOLD       |               | TIN           |               |
|-------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|             | 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    |
|             | 06         | 15-42-7006    | A-8724-06A164 | 15-42-7106    | A-8724-06B164 | 15-29-7006    | A-8724-06A571 | 15-29-7106    | A-8724-06B571 | 15-41-8006    | A-8724-06A574 | 15-41-8106    | A-8724-06B574 | 15-41-9106    |
| 08          | 15-42-7008 | A-8724-08A164 | 15-42-7108    | A-8724-08B164 | 15-29-7008    | A-8724-08A571 | 15-29-7108    | A-8724-08B571 | 15-41-8008    | A-8724-08A574 | 15-41-8108    | A-8724-08B574 | 15-41-9108    | A-8724-08G164 |
| 10          | 15-42-7010 | A-8724-10A164 | 15-42-7110    | A-8724-10B164 | 15-29-7010    | A-8724-10A571 | 15-29-7110    | A-8724-10B571 | 15-41-8010    | A-8724-10A574 | 15-41-8110    | A-8724-10B574 | 15-41-9110    | A-8724-10G164 |
| 12          | 15-42-7012 | A-8724-12A164 | 15-42-7112    | A-8724-12B164 | 15-29-7012    | A-8724-12A571 | 15-29-7112    | A-8724-12B571 | 15-41-8012    | A-8724-12A574 | 15-41-8112    | A-8724-12B574 | 15-41-9112    | A-8724-12G164 |
| 14          | 15-42-7014 | A-8724-14A164 | 15-42-7114    | A-8724-14B164 | 15-29-7014    | A-8724-14A571 | 15-29-7114    | A-8724-14B571 | 15-41-8014    | A-8724-14A574 | 15-41-8114    | A-8724-14B574 | 15-41-9114    | A-8724-14G164 |
| 16          | 15-42-7016 | A-8724-16A164 | 15-42-7116    | A-8724-16B164 | 15-29-7016    | A-8724-16A571 | 15-29-7116    | A-8724-16B571 | 15-41-8016    | A-8724-16A574 | 15-41-8116    | A-8724-16B574 | 15-41-9116    | A-8724-16G164 |
| 18          | 15-42-7018 | A-8724-18A164 | 15-42-7118    | A-8724-18B164 | 15-29-7018    | A-8724-18A571 | 15-29-7118    | A-8724-18B571 | 15-41-8018    | A-8724-18A574 | 15-41-8118    | A-8724-18B574 | 15-41-9118    | A-8724-18G164 |
| 20          | 15-42-7020 | A-8724-20A164 | 15-42-7120    | A-8724-20B164 | 15-29-7020    | A-8724-20A571 | 15-29-7120    | A-8724-20B571 | 15-41-8020    | A-8724-20A574 | 15-41-8120    | A-8724-20B574 | 15-41-9120    | A-8724-20G164 |
| 22          | 15-42-7022 | A-8724-22A164 | 15-42-7122    | A-8724-22B164 | 15-29-7022    | A-8724-22A571 | 15-29-7122    | A-8724-22B571 | 15-41-8022    | A-8724-22A574 | 15-41-8122    | A-8724-22B574 | 15-41-9122    | A-8724-22G164 |
| 24          | 15-42-7024 | A-8724-24A164 | 15-42-7124    | A-8724-24B164 | 15-29-7024    | A-8724-24A571 | 15-29-7124    | A-8724-24B571 | 15-41-8024    | A-8724-24A574 | 15-41-8124    | A-8724-24B574 | 15-41-9124    | A-8724-24G164 |
| 26          | 15-42-7026 | A-8724-26A164 | 15-42-7126    | A-8724-26B164 | 15-29-7026    | A-8724-26A571 | 15-29-7126    | A-8724-26B571 | 15-41-8026    | A-8724-26A574 | 15-41-8126    | A-8724-26B574 | 15-41-9126    | A-8724-26G164 |
| 28          | 15-42-7028 | A-8724-28A164 | 15-42-7128    | A-8724-28B164 | 15-29-7028    | A-8724-28A571 | 15-29-7128    | A-8724-28B571 | 15-41-8028    | A-8724-28A574 | 15-41-8128    | A-8724-28B574 | 15-41-9128    | A-8724-28G164 |
| 30          | 15-42-7030 | A-8724-30A164 | 15-42-7130    | A-8724-30B164 | 15-29-7030    | A-8724-30A571 | 15-29-7130    | A-8724-30B571 | 15-41-8030    | A-8724-30A574 | 15-41-8130    | A-8724-30B574 | 15-41-9130    | A-8724-30G164 |
| 32          | 15-42-7032 | A-8724-32A164 | 15-42-7132    | A-8724-32B164 | 15-29-7032    | A-8724-32A571 | 15-29-7132    | A-8724-32B571 | 15-41-8032    | A-8724-32A574 | 15-41-8132    | A-8724-32B574 | 15-41-9132    | A-8724-32G164 |
| 34          | 15-42-7034 | A-8724-34A164 | 15-42-7134    | A-8724-34B164 | 15-29-7034    | A-8724-34A571 | 15-29-7134    | A-8724-34B571 | 15-41-8034    | A-8724-34A574 | 15-41-8134    | A-8724-34B574 | 15-41-9134    | A-8724-34G164 |
| 36          | 15-42-7036 | A-8724-36A164 | 15-42-7136    | A-8724-36B164 | 15-29-7036    | A-8724-36A571 | 15-29-7136    | A-8724-36B571 | 15-41-8036    | A-8724-36A574 | 15-41-8136    | A-8724-36B574 | 15-41-9136    | A-8724-36G164 |
| 38          | 15-42-7038 | A-8724-38A164 | 15-42-7138    | A-8724-38B164 | 15-29-7038    | A-8724-38A571 | 15-29-7138    | A-8724-38B571 | 15-41-8038    | A-8724-38A574 | 15-41-8138    | A-8724-38B574 | 15-41-9138    | A-8724-38G164 |
| 40          | 15-42-7040 | A-8724-40A164 | 15-42-7140    | A-8724-40B164 | 15-29-7040    | A-8724-40A571 | 15-29-7140    | A-8724-40B571 | 15-41-8040    | A-8724-40A574 | 15-41-8140    | A-8724-40B574 | 15-41-9140    | A-8724-40G164 |
| 42          | 15-42-7042 | A-8724-42A164 | 15-42-7142    | A-8724-42B164 | 15-29-7042    | A-8724-42A571 | 15-29-7142    | A-8724-42B571 | 15-41-8042    | A-8724-42A574 | 15-41-8142    | A-8724-42B574 | 15-41-9142    | A-8724-42G164 |
| 44          | 15-42-7044 | A-8724-44A164 | 15-42-7144    | A-8724-44B164 | 15-29-7044    | A-8724-44A571 | 15-29-7144    | A-8724-44B571 | 15-41-8044    | A-8724-44A574 | 15-41-8144    | A-8724-44B574 | 15-41-9144    | A-8724-44G164 |
| 46          | 15-42-7046 | A-8724-46A164 | 15-42-7146    | A-8724-46B164 | 15-29-7046    | A-8724-46A571 | 15-29-7146    | A-8724-46B571 | 15-41-8046    | A-8724-46A574 | 15-41-8146    | A-8724-46B574 | 15-41-9146    | A-8724-46G164 |
| 48          | 15-42-7048 | A-8724-48A164 | 15-42-7148    | A-8724-48B164 | 15-29-7048    | A-8724-48A571 | 15-29-7148    | A-8724-48B571 | 15-41-8048    | A-8724-48A574 | 15-41-8148    | A-8724-48B574 | 15-41-9148    | A-8724-48G164 |
| 50          | 15-42-7050 | A-8724-50A164 | 15-42-7150    | A-8724-50B164 | 15-29-7050    | A-8724-50A571 | 15-29-7150    | A-8724-50B571 | 15-41-8050    | A-8724-50A574 | 15-41-8150    | A-8724-50B574 | 15-41-9150    | A-8724-50G164 |
| 52          | 15-42-7052 | A-8724-52A164 | 15-42-7152    | A-8724-52B164 | 15-29-7052    | A-8724-52A571 | 15-29-7152    | A-8724-52B571 | 15-41-8052    | A-8724-52A574 | 15-41-8152    | A-8724-52B574 | 15-41-9152    | A-8724-52G164 |
| 54          | 15-42-7054 | A-8724-54A164 | 15-42-7154    | A-8724-54B164 | 15-29-7054    | A-8724-54A571 | 15-29-7154    | A-8724-54B571 | 15-41-8054    | A-8724-54A574 | 15-41-8154    | A-8724-54B574 | 15-41-9154    | A-8724-54G164 |
| 56          | 15-42-7056 | A-8724-56A164 | 15-42-7156    | A-8724-56B164 | 15-29-7056    | A-8724-56A571 | 15-29-7156    | A-8724-56B571 | 15-41-8056    | A-8724-56A574 | 15-41-8156    | A-8724-56B574 | 15-41-9156    | A-8724-56G164 |
| 58          | 15-42-7058 | A-8724-58A164 | 15-42-7158    | A-8724-58B164 | 15-29-7058    | A-8724-58A571 | 15-29-7158    | A-8724-58B571 | 15-41-8058    | A-8724-58A574 | 15-41-8158    | A-8724-58B574 | 15-41-9158    | A-8724-58G164 |
| 60          | 15-42-7060 | A-8724-60A164 | 15-42-7160    | A-8724-60B164 | 15-29-7060    | A-8724-60A571 | 15-29-7160    | A-8724-60B571 | 15-41-8060    | A-8724-60A574 | 15-41-8160    | A-8724-60B574 | 15-41-9160    | A-8724-60G164 |
| 62          | 15-42-7062 | A-8724-62A164 | 15-42-7162    | A-8724-62B164 | 15-29-7062    | A-8724-62A571 | 15-29-7162    | A-8724-62B571 | 15-41-8062    | A-8724-62A574 | 15-41-8162    | A-8724-62B574 | 15-41-9162    | A-8724-62G164 |
| 64          | 15-42-7064 | A-8724-64A164 | 15-42-7164    | A-8724-64B164 | 15-29-7064    | A-8724-64A571 | 15-29-7164    | A-8724-64B571 | 15-41-8064    | A-8724-64A574 | 15-41-8164    | A-8724-64B574 | 15-41-9164    | A-8724-64G164 |
| 66          | 15-42-7066 | A-8724-66A164 | 15-42-7166    | A-8724-66B164 | 15-29-7066    | A-8724-66A571 | 15-29-7166    | A-8724-66B571 | 15-41-8066    | A-8724-66A574 | 15-41-8166    | A-8724-66B574 | 15-41-9166    | A-8724-66G164 |
| 68          | 15-42-7068 | A-8724-68A164 | 15-42-7168    | A-8724-68B164 | 15-29-7068    | A-8724-68A571 | 15-29-7168    | A-8724-68B571 | 15-41-8068    | A-8724-68A574 | 15-41-8168    | A-8724-68B574 | 15-41-9168    | A-8724-68G164 |
| 70          | 15-42-7070 | A-8724-70A164 | 15-42-7170    | A-8724-70B164 | 15-29-7070    | A-8724-70A571 | 15-29-7170    | A-8724-70B571 | 15-41-8070    | A-8724-70A574 | 15-41-8170    | A-8724-70B574 | 15-41-9170    | A-8724-70G164 |
| 72          | 15-42-7072 | A-8724-72A164 | 15-42-7172    | A-8724-72B164 | 15-29-7072    | A-8724-72A571 | 15-29-7172    | A-8724-72B571 | 15-41-8072    | A-8724-72A574 | 15-41-8172    | A-8724-72B574 | 15-41-9172    | A-8724-72G164 |

**PLATING FINISHES:**

**TIN** TIN (Sn) OVER ENTIRE PIN;  
THICKNESS=(3.75 MICROMETER)/75 MICROINCH MINIMUM;  
NICKEL (Ni) UNDERPLATE OVER ENTIRE PIN.

**15 GOLD** SELECTIVE GOLD (Au) IN THE CONTACT AREA;  
THICKNESS=(0.37 MICROMETER)/15 MICROINCH MINIMUM;  
SELECTIVE TIN (Sn) IN THE PC TAIL AREA;  
THICKNESS=(1.88 MICROMETER)/75 MICROINCH MINIMUM;  
NICKEL (Ni) UNDERPLATE OVER ENTIRE PIN.

**30 GOLD** SELECTIVE GOLD (Au) IN THE CONTACT AREA;  
THICKNESS=(0.75 MICROMETER)/30 MICROINCH MINIMUM;  
SELECTIVE TIN (Sn) IN THE PC TAIL AREA;  
THICKNESS=(1.88 MICROMETER)/75 MICROINCH MINIMUM;  
NICKEL (Ni) UNDERPLATE OVER ENTIRE PIN.

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

|   |  |   |  |   |   |
|---|--|---|--|---|---|
| <b>UPDATE TITLE BLOCK</b><br>EC NO. UCP2008-1539<br>DRAWN/ADDER 2008/01/28<br>CHYKJ/BELL 2008/01/31<br>APPROV/SMITH 2008/02/08<br>REV | <b>QUALITY SYMBOLS</b><br>0 = 0<br>1 = 0                       | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b><br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ±1/2° | <b>DIMENSION STYLE</b><br>MM/IN<br>DRAWN BY JL DATE 1986/06/26<br>CHECKED BY RB DATE 1986/06/26<br>APPROVED BY DATE<br>MATERIAL NO. WAZ<br>DOCUMENT NO. SDA-8724-*****<br>SHEET NO. 2 OF 8 | <b>SCALE</b><br>---<br><b>DESIGN UNITS</b><br>INCH<br><b>THIRD ANGLE PROJECTION</b> | <b>SALES ASSEMBLY</b><br><b>WAFER-RIGHT ANGLE FULLY</b><br><b>SHROUDED .100 GRID</b><br><b>MOLEX INCORPORATED</b> |
|   | <b>DRAFT WHERE APPLICABLE</b><br>MUST REMAIN WITHIN DIMENSIONS |   | <b>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</b>   |   |   |
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