



PART NUMBER LEGEND :
 87831 - * * * * *
PLATING OPTION
 19 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
 20 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
 21 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

- NOTES:**
- FOR ILLUSTRATION PURPOSES, 20 CIRCUIT SIZE WAFER IS SHOWN.
 - MATERIAL :**
 HOUSING : 30% G.F., NYLON 46, UL94V-0, COLOR BLACK.
 PIN : 0.50MM SQ.PHOSPHOR BRONZE.
 - PRODUCT SPECIFICATION PS-87831-027 APPLIES.
 - NO CENTRE POLARIZATION SLOT FOR CKT SIZE 4 & 6 (EXCEPT FOR 87831-5119).
 - NO SIDE LOCKING SLOT FROM 4 TO 12 CKT SIZE.
 - CKT 4 AND 6 HAS NO IDENTIFICATION TAG.
 - REFER TO PART 87831-**4* FOR CENTRE LOCKING SLOT OPTION FOR 4 TO 12 CKT.
 - THIS HEADER MATES WITH MOLEX :
 a) CRIMP RECEPTACLE HOUSING, 51110 SERIES WITH CRIMP TERMINAL, 50394 SERIES.
 b) 2MM MILLIGRID DUAL ROW IDT, 87568 SERIES.
 - PARTS TO BE PACKED IN TUBE WITH MOISTURE BARRIER BAG.

| | | | | | | | | | | |
|---|--------------------------------------|---|-----------------------|-----------------------------------|---|------------------------------|------------------------|------------------------|--|--|
| PDR#S-001858-00-00 EC NO: S2009-0092 DRWN:SKANG 2008/08/12 CHKD:ATSEE 2008/08/19 APPR:MLONG 2008/08/21 | QUALITY SYMBOLS ▽=0 ◁=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | |
| | | mm INCH | DRAWN BY ATSEE | DATE 2003/10/03 | TITLE MGRID, SHROUDED HEADER VERTICAL W/SLOT & STANDOFF | | | | | |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- | CHECKED BY KCL ING | DATE 2003/11/07 | MOLEX INCORPORATED | | | | | |
| | | ANGULAR ± 3 ° | APPROVED BY SKTOH | DATE 2003/11/07 | MATERIAL NO. SEE TABLE | DOCUMENT NO. SD-87831-011 | SHEET NO. 1 OF 2 | | | |
| A13 | REV | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SIZE A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | |

| P/N IN TUBE | CKT SIZE | VOID POSITION | DIMENSION | | | | |
|-------------|----------|---------------|-----------|-------|-------|-------|-------|
| | | | A | B | C | D | E |
| 87831-04** | 4 | ----- | 2.00 | 4.85 | 6.65 | 5.00 | ----- |
| 87831-06** | 6 | ----- | 4.00 | 6.85 | 8.65 | 7.00 | ----- |
| 87831-08** | 8 | ----- | 6.00 | 8.85 | 10.65 | 9.00 | ----- |
| 87831-10** | 10 | ----- | 8.00 | 10.85 | 12.65 | 11.00 | ----- |
| 87831-12** | 12 | ----- | 10.00 | 12.85 | 14.65 | 13.00 | ----- |
| 87831-14** | 14 | ----- | 12.00 | 14.85 | 16.65 | 15.00 | 8.00 |
| 87831-16** | 16 | ----- | 14.00 | 16.85 | 18.65 | 17.00 | 10.00 |
| 87831-18** | 18 | ----- | 16.00 | 18.85 | 20.65 | 19.00 | 12.00 |
| 87831-20** | 20 | ----- | 18.00 | 20.85 | 22.65 | 21.00 | 14.00 |
| 87831-22** | 22 | ----- | 20.00 | 22.85 | 24.65 | 23.00 | 16.00 |
| 87831-24** | 24 | ----- | 22.00 | 24.85 | 26.65 | 25.00 | 18.00 |
| 87831-26** | 26 | ----- | 24.00 | 26.85 | 28.65 | 27.00 | 20.00 |
| 87831-28** | 28 | ----- | 26.00 | 28.85 | 30.65 | 29.00 | 22.00 |
| 87831-30** | 30 | ----- | 28.00 | 30.85 | 32.65 | 31.00 | 24.00 |
| 87831-32** | 32 | ----- | 30.00 | 32.85 | 34.65 | 33.00 | 26.00 |
| 87831-34** | 34 | ----- | 32.00 | 34.85 | 36.65 | 35.00 | 28.00 |
| 87831-36** | 36 | ----- | 34.00 | 36.85 | 38.65 | 37.00 | 30.00 |
| 87831-38** | 38 | ----- | 36.00 | 38.85 | 40.65 | 39.00 | 32.00 |
| 87831-40** | 40 | ----- | 38.00 | 40.85 | 42.65 | 41.00 | 34.00 |
| 87831-42** | 42 | ----- | 40.00 | 42.85 | 44.65 | 43.00 | 36.00 |
| 87831-44** | 44 | ----- | 42.00 | 44.85 | 46.65 | 45.00 | 38.00 |
| 87831-46** | 46 | ----- | 44.00 | 46.85 | 48.65 | 47.00 | 40.00 |
| 87831-48** | 48 | ----- | 46.00 | 48.85 | 50.65 | 49.00 | 42.00 |
| 87831-50** | 50 | ----- | 48.00 | 50.85 | 52.65 | 51.00 | 44.00 |
| 87831-5120 | 12 | 1 | 10.00 | 12.85 | 14.65 | 13.00 | ----- |
| 87831-5220 | 44 | 20 | 42.00 | 44.85 | 46.65 | 45.00 | 38.00 |
| 87831-5320 | 24 | 13 | 22.00 | 24.85 | 26.65 | 25.00 | 18.00 |
| 87831-5420 | 34 | 3 | 32.00 | 34.85 | 36.65 | 35.00 | 28.00 |
| 87831-5520 | 20 | 20 | 18.00 | 20.85 | 22.65 | 21.00 | 14.00 |
| 87831-5620 | 28 | 13 | 26.00 | 28.85 | 30.65 | 29.00 | 22.00 |
| 87831-5119 | 6 | ----- | 4.00 | 6.85 | 8.65 | 7.00 | ----- |
| 87831-5720 | 34 | 15 | 32.00 | 34.85 | 36.65 | 35.00 | 28.00 |
| 87831-5820 | 40 | 25 | 38.00 | 40.85 | 42.65 | 41.00 | 34.00 |
| 87831-5920 | 20 | 13 | 18.00 | 20.85 | 22.65 | 21.00 | 14.00 |
| 87831-6020 | 24 | 20 | 22.00 | 24.85 | 26.65 | 25.00 | 18.00 |

} NO CENTRE POLARIZATION SLOT

| | | | | | | | | |
|---|--|--------------------|--|---|--|---------------------|--------------|------------------------|
| PDR#S-001858-00-00 EC NO: S2009-0092 DRWN:SKANG CHKD:ATSEE APPR:MLONG | 2008/08/12 2008/08/19 2008/08/21 | DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | | | $\nabla=0$ $\nabla C=0$ | mm INCH | MM ONLY | NTS | METRIC | \odot \square |
| | | | 4 PLACES \pm --- \pm --- 3 PLACES \pm --- \pm --- 2 PLACES \pm 0.2 \pm --- 1 PLACE \pm --- \pm --- ANGULAR \pm 3 ° | DRAWN BY DATE ATSEE 2003/10/03 CHECKED BY DATE KCLING 2003/11/07 APPROVED BY DATE SKTOH 2003/11/07 | TITLE | | | |
| | | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. SEE TABLE SIZE A3 | MOLEX INCORPORATED SD-87831-011 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | SHEET NO. 2 OF 2 | | |