



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-*** 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.

| | | | | | | | | | | | |
|---|-------------------------------|--|----------------------|----------------------------|---------------------|--------------|------------------------|------------------------|--|---------------------|--|
| REVISED ELC NO: S2009-0559 DRWNSKANG CHKDATSEE APPR:MLONG 2009/02/23 2009/02/23 2009/02/23 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | | |
| | | 4 PLACES ± --- ± --- | 3 PLACES ± --- ± --- | 2 PLACES ± 0.2 ± --- | 1 PLACE ± --- ± --- | ANGULAR ± 3° | DRAWN BY ATSEE | DATE 2003/10/03 | TITLE MGRID, SHROUDED HEADER VERTICAL W/SLOT & STANDOFF | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | CHECKED BY KCLING | DATE 2003/11/07 | MOLEX INCORPORATED | | |
| | | MATERIAL NO. SEE TABLE | | | | | APPROVED BY SKTOH | DATE 2003/11/07 | DOCUMENT NO. SD-87831-011 | SHEET NO. 1 OF 2 | |

| 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

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|---|--|---------------------------------------|---|------------------------------------|--------------|------------------------|
| REVISED EEC NO: S2009-0559 DRWNSKANG CHYKATSEE APPR:MLONG 2009/02/23 2009/02/23 2009/02/23 DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | $\nabla=0$ $\nabla=0$ | mm INCH | MM ONLY | NTS | METRIC | |
| | | 4 PLACES ± --- ± --- | DRAWN BY DATE | TITLE | | |
| | | 3 PLACES ± --- ± --- | ATSEE 2003/10/03 | MGRID, SHROUDED HEADER VERTICAL | | |
| | | 2 PLACES ± 0.2 ± --- | CHECKED BY DATE | W/SLOT & STANDOFF | | |
| | 1 PLACE ± --- ± --- | KCLING 2003/11/07 | MOLEX INCORPORATED | | | |
| | ANGULAR ± 3° | APPROVED BY DATE | MATERIAL NO. DOCUMENT NO. SHEET NO. | | | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SKTOH 2003/11/07 | SEE TABLE SD-87831-011 2 OF 2 | | | |
| | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |