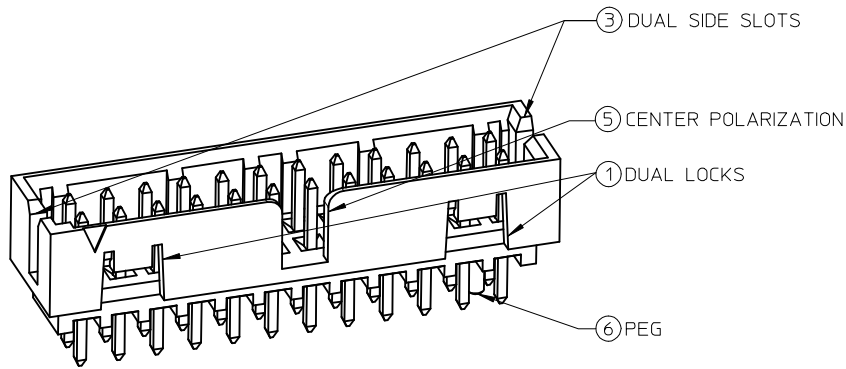
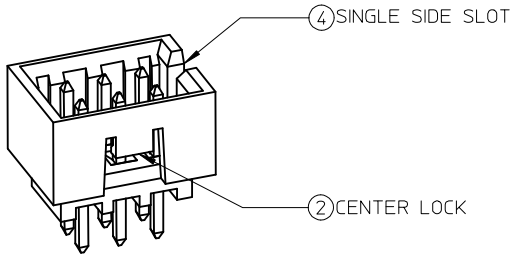


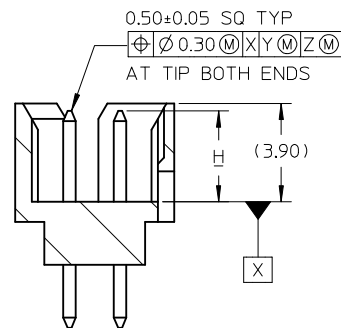
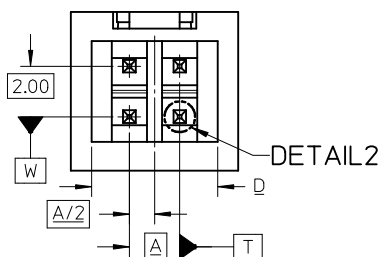
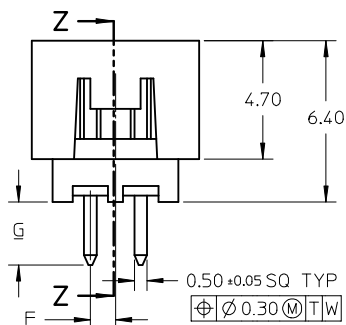
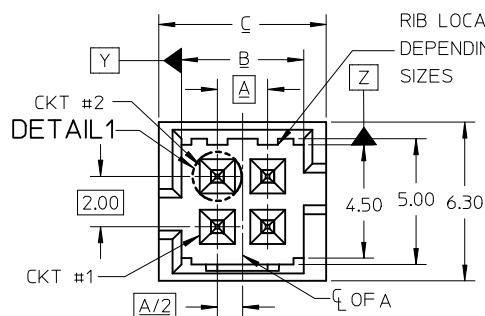
FEATURES SELECTION GUIDE



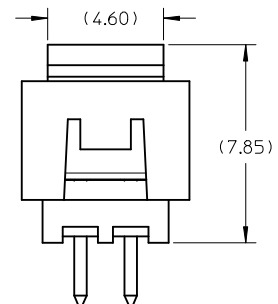
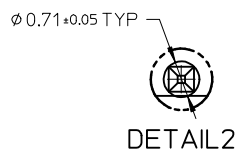
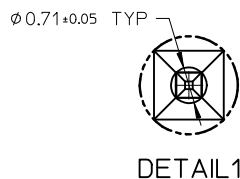
| CIRCUIT SIZE | FEATURES | | | | | | SHEET NO |
|--------------|----------------|----------|------------|----------|-----------------------|-------|----------|
| | FRICTION LOCKS | | SIDE SLOTS | | ⑤ CENTER POLARIZATION | ⑥ PEG | |
| | ① DUAL | ② CENTER | ③ DUAL | ④ SINGLE | | | |
| 4 | N.A | N.A | YES | N.A | N.A | N.A | 2 - 3 |
| | N.A | YES | YES | N.A | N.A | N.A | |
| | N.A | YES | N.A | YES | N.A | N.A | |
| 6 | N.A | N.A | YES | N.A | N.A | N.A | 4 - 5 |
| | N.A | N.A | YES | N.A | N.A | YES | |
| | N.A | YES | YES | N.A | N.A | N.A | |
| | N.A | YES | YES | N.A | N.A | YES | |
| | N.A | YES | N.A | YES | N.A | YES | |
| | N.A | YES | N.A | YES | N.A | YES | |
| | N.A | N.A | YES | N.A | YES | N.A | |
| 8 TO 12 | N.A | N.A | YES | N.A | YES | N.A | 6 - 8 |
| | N.A | N.A | YES | N.A | YES | YES | |
| | N.A | YES | YES | N.A | N.A | N.A | |
| | N.A | YES | YES | N.A | N.A | YES | |
| | N.A | YES | N.A | YES | N.A | N.A | |
| 14 TO 50 | YES | N.A | YES | N.A | YES | N.A | 9 - 13 |
| | YES | N.A | YES | N.A | YES | YES | |

| | | | | | | |
|---|---|---|--|---|--------------|------------------------|
| RELEASED EC NO: S2015-1188 DRWNG: GMENARLY 2015/04/15 CHK'D: CGOH 2015/06/29 APPR: KHL IM 2015/06/29 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | $\nabla_{\sqrt{A}} = 0$ $\nabla_{\sqrt{C}} = 0$ $\nabla_{\sqrt{P}} = 0$ | mm INCH | MM ONLY | NTS | METRIC | |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- | DRAWN BY GMENARLY DATE 2015/04/15 CHECKED BY DATE APPROVED BY KHL IM DATE 2015/06/29 | TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | | |
| | | ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87831-0001 SHEET NO. 1 OF 13 | | | |

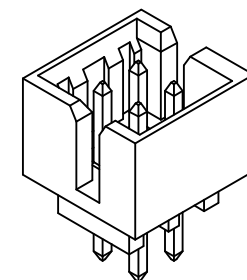
4 CIRCUITS



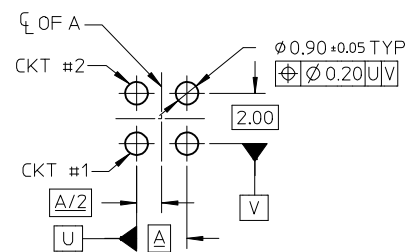
SECTION Z-Z



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER
WITH ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50MM SQ PHOSPHOR BRONZE
- FINISHES: REFER TO PLATING OPTIONS
- PRODUCT SPECIFICATION: PS-87831-027
- PACKAGING SPECIFICATION:
TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)


| | | | | | | | | |
|---|---|--|--------------|---|---------------|--------------|--|--|
| RELEASED EC NO: S2015-1188 DRWNG:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29 | DESCRIPTION QUALITY SYMBOLS $F_A=0$ $F_B=0$ $F_P=0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | | | | MM ONLY | NTS | METRIC | | |
| | | mm | INCH | DRAWN BY | DATE | TITLE | | |
| | | 4 PLACES | ± --- | ± --- | GMENARLY | 2015/04/15 | MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | |
| 3 PLACES | ± --- | ± --- | CHECKED BY | DATE | | | | |
| 2 PLACES | ± 0.20 | ± --- | APPROVED BY | DATE | | | | |
| 1 PLACE | ± --- | ± --- | KHLIM | 2015/06/29 | DOCUMENT NO. | | | |
| 0 PLACE | ± --- | ± --- | MATERIAL NO. | | SD-87831-0001 | | | |
| ANGULAR ± 3° | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SIZE | SHEET NO. | | | |
| | | | | A3 | 2 OF 13 | | | |
| | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

4 CIRCUITS

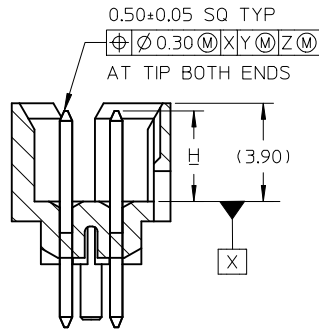
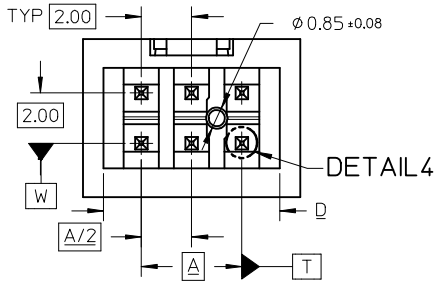
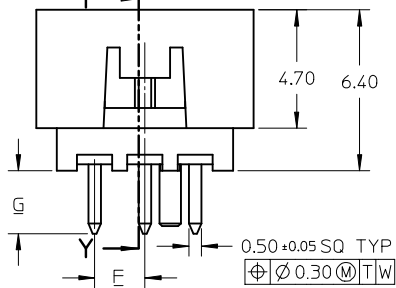
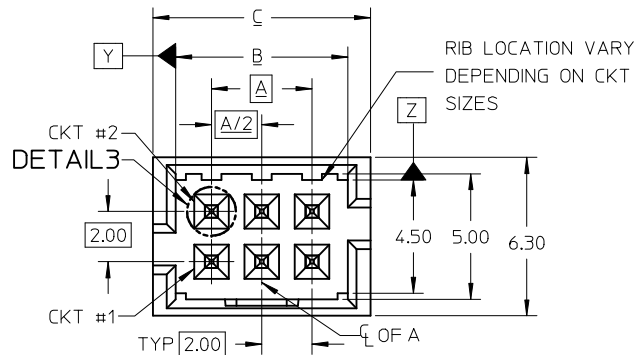
| CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | | |
|------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|------|-----------|------|------|------|-----|------|------|-----------|
| | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G | H |
| 4 | 87831-0419 | N.A | N.A | 1 | N.A | N.A | YES | N.A | N.A | N.A | 2.00 | 4.85 | 6.65 | 5.00 | N.A | N.A | 2.50 | 3.60±0.20 |
| | 87831-0420 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-0421 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-0436 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-0441 | 87831-0456 | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | | | | | | 1.00 | 2.50 | |
| | 87831-0442 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-5141 | N.A | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | | | | | | 3.50 | | |
| | 87831-5142 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-6141 | N.A | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | | | | | | 2.80 | | |
| | 87831-6142 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 87831-0443 | N.A | N.A | 2 | N.A | YES | N.A | YES | N.A | N.A | 2.50 | | | | | | | | |
| 87831-0444 | N.A | N.A | 3 | | | | | | | | | | | | | | | |

PLATING OPTIONS:

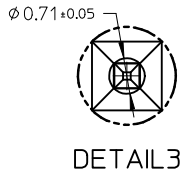
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

| | | | | | | | | | |
|---|-------------------------|-------------------------------|---|-----------------|---|--------------|--|--|--|
| RELEASED EC NO: S2015-1188 DRW:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29 | DESCRIPTION REV A | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | |
| | | $F_A=0$ $F_G=0$ $F_P=0$ | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- | MM ONLY | NTS | METRIC | DRAWN BY: GMENARLY DATE: 2015/04/15 CHECKED BY: _____ DATE: _____ APPROVED BY: KHLIM DATE: 2015/06/29 | TITLE: MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER  | |
| | | ANGULAR ± 3 ° | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE TABLE | MATERIAL NO. | DOCUMENT NO. | SHEET NO. | SD-87831-0001 3 OF 13 | |
| | | | | SIZE: A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

6 CIRCUITS



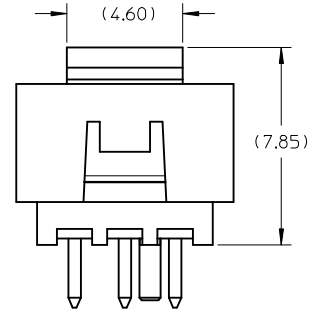
SECTION Y-Y



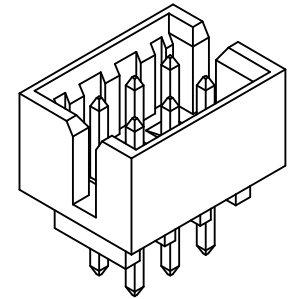
DETAIL 3



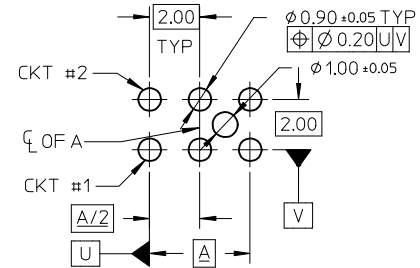
DETAIL 4



VIEW FOR HEADER WITH CAP



VIEW FOR HEADER WITH ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50MM SQ PHOSPHOR BRONZE
- FINISHES: REFER TO PLATING OPTIONS
- PRODUCT SPECIFICATION: PS-87831-027
- PACKAGING SPECIFICATION:
TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

| | | | | | | | | | | | | |
|---|--|--------------------|--------------------------------------|---------------------------------------|-------|---|----------------------|---|-------------------------------|--|--|--|
| RELEASED IEC NO: S2015-1188 DRAWN: GMEARLY CHKD: CGOH APPR: KHLIM | 2015/04/15 2015/06/29 2015/06/29 | DESCRIPTION REV | QUALITY SYMBOLS F=0 F=0 F=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | | |
| | | | | mm | INCH | DRAWN BY GMEARLY | DATE 2015/04/15 | TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | | | | |
| | | | | 4 PLACES | ± --- | ± --- | CHECKED BY | DATE | DOCUMENT NO. SD-87831-0001 | | | |
| | | | | 3 PLACES | ± --- | ± --- | APPROVED BY KHLIM | DATE 2015/06/29 | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | ANGULAR ± 3° | | MATERIAL NO. SEE TABLE | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |

6 CIRCUITS

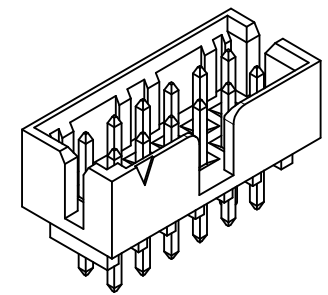
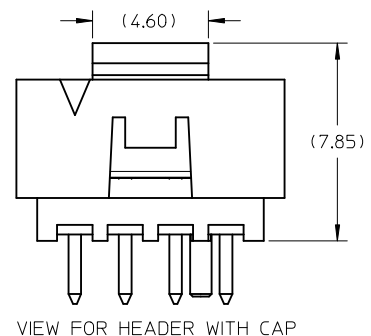
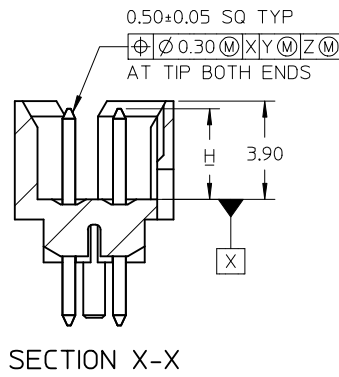
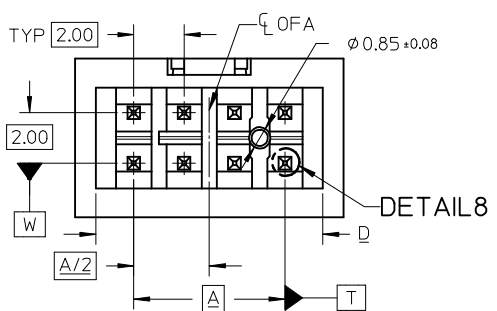
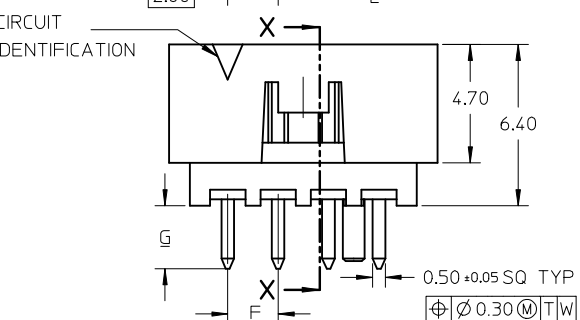
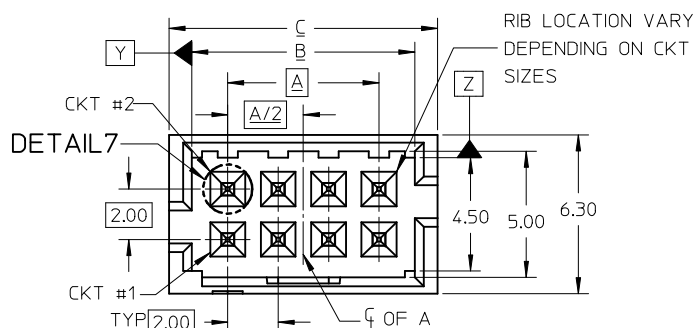
| CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | | |
|------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|------|-----------|------|------|------|-----|------|------|-----------|
| | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G | H |
| 6 | 87831-0619 | N.A | N.A | 1 | N.A | N.A | YES | N.A | N.A | N.A | 4.00 | 6.85 | 8.65 | 7.00 | N.A | N.A | 2.50 | 3.60±0.20 |
| | 87831-0620 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-0621 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-0636 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-0628 | N.A | N.A | 2 | N.A | N.A | YES | N.A | N.A | YES | | | | | | N.A | 2.50 | |
| | 87831-0629 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-0641 | N.A | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | | | | | | 2.50 | | |
| | 87831-0642 | N.A | 87831-5552 | 3 | | | | | | | | | | | | | | |
| | 87831-5241 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-5242 | N.A | N.A | 3 | N.A | YES | YES | N.A | N.A | N.A | | | | | | 3.50 | | |
| | 87831-6241 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-6242 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-0643 | N.A | N.A | 2 | N.A | YES | N.A | YES | N.A | N.A | | | | | | 2.80 | | |
| | 87831-0644 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-0645 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-0646 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 87831-0632 | N.A | N.A | 2 | N.A | YES | YES | N.A | N.A | YES | 2.50 | | | | | | | | |
| 87831-5119 | N.A | N.A | 1 | | | | | | | | | | | | | | | |

PLATING OPTIONS:

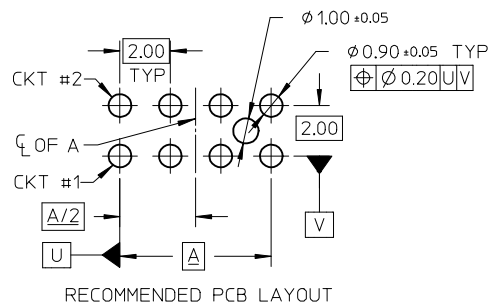
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

| | | | | | | | | | | | | |
|--|---|---|---------------|----------------------------|----------------------|-----------------------|------------------------|---|-----------|--|--|--|
| RELEASED EC NO: S2015-1188 DRW:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29 | DESCRIPTION QUALITY SYMBOLS $F_A=0$ $F_G=0$ $F_P=0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | | | |
| | | | | mm | INCH | DRAWN BY GMENARLY | DATE 2015/04/15 | TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | | | | |
| | | | | 4 PLACES ± --- ± --- | 3 PLACES ± --- ± --- | CHECKED BY | | DATE | | | | |
| | | | | 2 PLACES ± 0.20 ± --- | 1 PLACE ± --- ± --- | APPROVED BY KHL IM | | DATE 2015/06/29 | | | | |
| | | 0 PLACE ± --- ± --- | ANGULAR ± 3 ° | | MATERIAL NO. | | DOCUMENT NO. | | SHEET NO. | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE TABLE | | SD-87831-0001 | | 5 OF 13 | | | | |
| | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | |

8 TO 12 CIRCUITS



VIEW FOR HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



- NOTES:
- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50MM SQ PHOSPHOR BRONZE
 - FINISHES: REFER TO PLATING OPTIONS
 - PRODUCT SPECIFICATION: PS-87831-027
 - PACKAGING SPECIFICATION:
TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300
 - MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)


| | | | | | | | | | | |
|---|--|---------------------------------------|----------------------|----------------------------|--------------------|---|------------------------|------------------------|--|--|
| RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29 | DESCRIPTION QUALITY SYMBOLS $\nabla_A=0$ $\nabla_E=0$ $\nabla_F=0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | |
| | | mm | INCH | DRAWN BY GMENARLY | DATE 2015/04/15 | TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | | | | |
| | | 4 PLACES ± --- ± --- | 3 PLACES ± --- ± --- | CHECKED BY | DATE | | | | | |
| | | 2 PLACES ± 0.20 ± --- | 1 PLACE ± --- ± --- | APPROVED BY KHLIM | DATE 2015/06/29 | | | | | |
| 0 PLACE ± --- ± --- | ANGULAR ± 3° | | MATERIAL NO. | DOCUMENT NO. | SHEET NO. | | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE TABLE | | SD-87831-0001 | | 6 OF 13 | | | | |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | |

8 CIRCUITS

| F | CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | | |
|------------|------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|-----|-----------|------|-------|------|-----|------|------|-----------|
| | | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G | H |
| E | 8 | 87831-0819 | N.A | N.A | 1 | N.A | N.A | YES | N.A | YES | N.A | 6.00 | 8.85 | 10.65 | 9.00 | N.A | N.A | 2.50 | 3.60±0.20 |
| | 87831-0820 | N.A | N.A | 2 | | | | | | | | | | | | | | | |
| | 87831-0821 | N.A | N.A | 3 | | | | | | | | | | | | | | | |
| | 87831-0836 | N.A | N.A | 4 | N.A | N.A | YES | N.A | YES | YES | YES | | | | | | N.A | 2.50 | |
| | 87831-0828 | N.A | N.A | 2 | | | | | | | | | | | | | | | |
| | 87831-0829 | N.A | N.A | 3 | | | | | | | | | | | | | | | |
| | 87831-0841 | N.A | 87831-5551 | 2 | N.A | YES | YES | N.A | N.A | N.A | N.A | | | | | | 3.00 | 2.50 | |
| | 87831-0842 | N.A | N.A | 3 | | | | | | | | | | | | | | | |
| | 87831-5441 | N.A | N.A | 2 | | | | | | | | | | | | | N.A | YES | |
| | 87831-5442 | N.A | N.A | 3 | | | | | | | | | | | | | | | |
| | N.A | 87831-5541 | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | N.A | | | | | | | | |
| | N.A | 87831-5542 | N.A | 3 | | | | | | | | | | | | | | | |
| | 87831-5741 | N.A | N.A | 2 | | | | | | | | | | | | | N.A | YES | |
| | 87831-5742 | N.A | N.A | 3 | | | | | | | | | | | | | | | |
| | 87831-0832 | N.A | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | YES | | | | | | | | |
| 87831-0843 | N.A | N.A | 2 | | | | | | | | | | | | | | | | |
| 87831-0844 | N.A | N.A | 3 | N.A | | | | | | | | YES | N.A | YES | N.A | N.A | YES | 2.50 | |
| 87831-0845 | N.A | N.A | 2 | | | | | | | | | | | | | | | | |
| 87831-0846 | N.A | N.A | 3 | | N.A | YES | N.A | YES | N.A | YES | YES | | | | | | | 2.50 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

PLATING OPTIONS:

- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

| | | | | | | | | | |
|--|--------------------|---|---|-----------------|--------------|--------------|---|--|--|
| RELEASED EC NO: S2015-1188 DRAWN: GEMEARLY 2015/04/15 CH'KD: CGOH 2015/06/29 APPR: KHL IM 2015/06/29 | DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | |
| | | $\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$ | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- | MM ONLY | NTS | METRIC | DRAWN BY: GMENARLY DATE: 2015/04/15 CHECKED BY: _____ DATE: _____ APPROVED BY: KHL IM DATE: 2015/06/29 | TITLE: MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER  | |
| | | ANGULAR ± 3 ° | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE TABLE | MATERIAL NO. | DOCUMENT NO. | SHEET NO. | SD-87831-0001 7 OF 13 | |
| | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | SIZE: A3 | | | | | |

10 TO 12 CIRCUITS

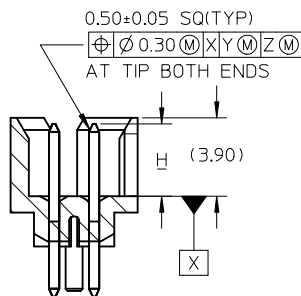
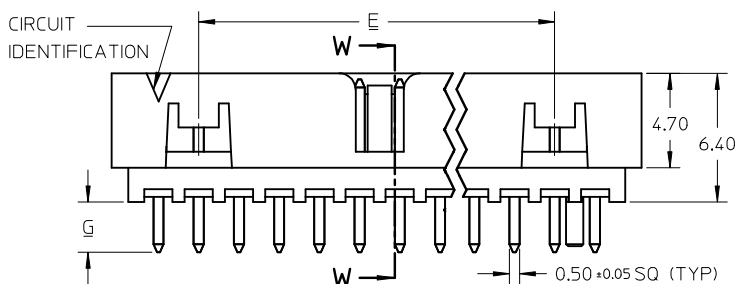
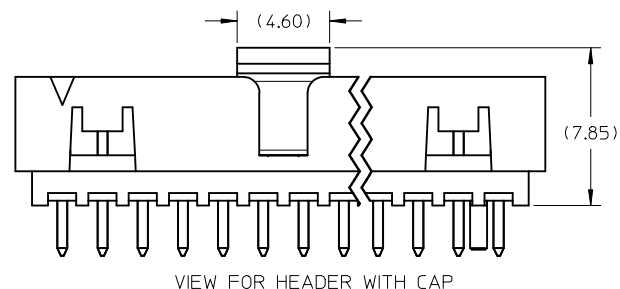
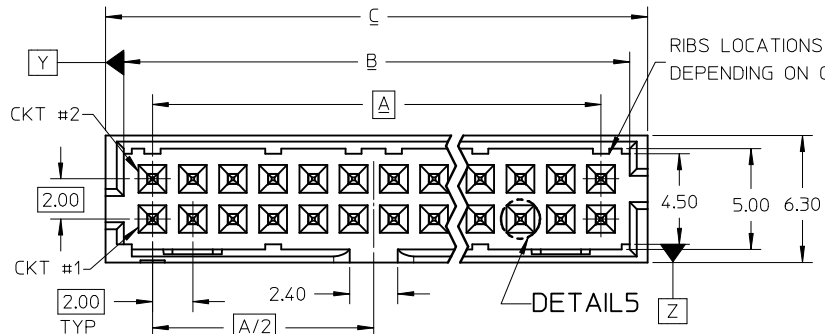
| CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | | | | | | | | | | | | | | | |
|------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|------|-----------|-------|-------|-------|------|------|--|--|-----|-----|-----|-----|-----|-------|-------|-------|-------|-----|-----|------|-----------|
| | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 10 | 87831-1019 | N.A | N.A | 1 | N.A | N.A | YES | N.A | YES | N.A | 8.00 | 10.85 | 12.65 | 11.00 | N.A | N.A | 2.50 | 3.60±0.20 | | | | | | | | | | | | | |
| | 87831-1020 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 87831-1021 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 87831-1036 | N.A | N.A | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 87831-1010 | N.A | N.A | 2 | N.A | N.A | YES | N.A | YES | N.A | | | | | | | 3.50 | | | | | | | | | | | | | | |
| | 87831-1011 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 87831-1028 | N.A | N.A | 2 | N.A | N.A | YES | N.A | YES | YES | | | | | | 2.50 | | | | | | | | | | | | | | | |
| | 87831-1029 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 87831-1035 | N.A | N.A | 3 | N.A | N.A | YES | N.A | YES | YES | | | | | | 3.50 | | | | | | | | | | | | | | | |
| | 87831-1041 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 87831-1042 | N.A | 87831-5553 | 3 | N.A | YES | YES | N.A | N.A | N.A | | | | | | 2.50 | | | | | | | | | | | | | | | |
| | 87831-1032 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87831-1043 | N.A | N.A | 2 | N.A | YES | N.A | YES | N.A | N.A | 2.50 | | | | | | | | | | | | | | | | | | | | | |
| 87831-1044 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 87831-1045 | N.A | N.A | 2 | N.A | YES | N.A | YES | N.A | YES | 10.00 | 12.85 | 14.65 | 13.00 | N.A | 4.00 | 2.50 | 3.60 ^{+0.15} _{-0.10} | | | | | | | | | | | | | |
| | 87831-1046 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 87831-1219 | N.A | N.A | | | | | | | | | | | | 1 | N.A | | N.A | YES | N.A | YES | N.A | 10.00 | 12.85 | 14.65 | 13.00 | N.A | N.A | 2.50 | 3.60±0.20 |
| | | 87831-1220 | N.A | N.A | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| 87831-1221 | | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87831-1236 | | N.A | N.A | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87831-1228 | | N.A | N.A | 2 | N.A | N.A | YES | N.A | YES | YES | 2.50 | | | | | | | | | | | | | | | | | | | | |
| 87831-1229 | | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87831-1241 | | N.A | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | 2.50 | | | | | | | | | | | | | | | | | | | | |
| 87831-1242 | | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87831-1255 | | 87831-1256 | N.A | 2 | N.A | YES | YES | N.A | N.A | N.A | 3.50 | | | | | | | | | | | | | | | | | | | | |
| 87831-1232 | | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87831-1243 | | N.A | N.A | 2 | N.A | YES | N.A | YES | N.A | N.A | 2.50 | | | | | | | | | | | | | | | | | | | | |
| 87831-1244 | | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 87831-1245 | N.A | N.A | 2 | N.A | YES | N.A | YES | N.A | YES | 5.00 | 2.50 | 2.50 | N.A | 5.00 | 2.50 | 3.60 ^{+0.15} _{-0.10} | | | | | | | | | | | | | | |
| | 87831-1246 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PLATING OPTIONS:

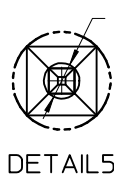
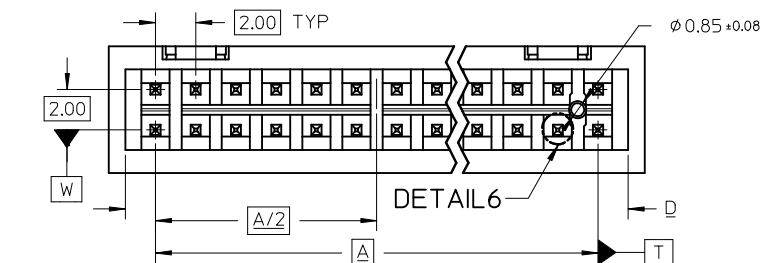
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

| | | | | | | | | | | | |
|--|--|--------------------|-------------------------------|---|-----------------|---|--------------|---|---|--|--|
| RELEASED EC NO: S2015-1188 DRWG:GMENARLY CHKD:CGOH APPR:KHL IM | 2015/04/15 2015/06/29 2015/06/29 | DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | | |
| | | | $F_A=0$ $F_G=0$ $F_P=0$ | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- | MM ONLY | NTS | METRIC | DRAWN BY: GMENARLY DATE: 2015/04/15 CHECKED BY: DATE: | TITLE: MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | | |
| | | | | ANGULAR ± 3° | SEE TABLE | | | APPROVED BY: KHL IM DATE: 2015/06/29 MATERIAL NO. DOCUMENT NO. | molex SD-87831-0001 | | |
| | | | | 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 | | | SHEET NO. 8 OF 13 | | |

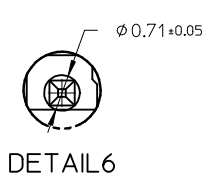
14 TO 50 CIRCUITS



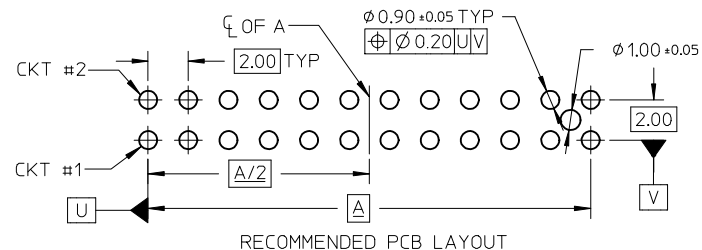
SECTION W-W



DETAIL5



DETAIL6



RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50MM SQ PHOSPHOR BRONZE
- FINISHES: REFER TO PLATING OPTIONS
- PRODUCT SPECIFICATION: PS-87831-027
- PACKAGING SPECIFICATION:
TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

| | | | | | | | | | | | | |
|--|--|---|---------------------------------------|---|----------------------------|-----------------------|--------------------|---|------------------------|--|--|--|
| RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:CGOH APPR:KHL IM | 2015/04/15 2015/06/29 2015/06/29 | DESCRIPTION QUALITY SYMBOLS $F_a=0$ $F_b=0$ $F_p=0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | | |
| | | | 4 PLACES | ± --- | ± --- | DRAWN BY GMENARLY | DATE 2015/04/15 | TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | | | | |
| | | | 3 PLACES | ± --- | ± --- | CHECKED BY | DATE | | | | | |
| | | | 2 PLACES | ± 0.20 | ± --- | APPROVED BY KHL IM | DATE 2015/06/29 | | | | | |
| 1 PLACE | ± --- | ± --- | MATERIAL NO. | | DOCUMENT NO. | | SHEET NO. | | | | | |
| 0 PLACE | ± --- | ± --- | ANGULAR ± 3 ° | | SEE TABLE | | SD-87831-0001 | | | | | |
| 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 | | | | | | | | |

14 TO 20 CIRCUITS

| F | CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | | |
|------------|----------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|-----|-----------|-------|-------|-------|-------|-----|------|-----------|
| | | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G | H |
| E | 14 | 87831-1419 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 12.00 | 14.85 | 16.65 | 15.00 | 8.00 | N.A | 2.50 | 3.60±0.20 |
| | | 87831-1420 | N.A | 87831-5554 | 2 | | | | | | | | | | | | | | |
| | | 87831-1421 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | | 87831-1436 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | | 87831-1428 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | | 87831-1429 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | | 87831-1435 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| D | 16 | 87831-1410 | N.A | N.A | 2 | YES | N.A | YES | N.A | YES | N.A | 14.00 | 16.85 | 18.65 | 17.00 | 10.00 | N.A | 2.50 | 3.60±0.20 |
| | | 87831-1411 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | | 87831-1619 | N.A | N.A | 1 | | | | | | | | | | | | | | |
| | | 87831-1620 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | | 87831-1621 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | | 87831-1636 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | | 87831-1628 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| C | 18 | 87831-1629 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | N.A | 16.00 | 18.85 | 20.65 | 19.00 | 12.00 | N.A | 2.50 | 3.60±0.20 |
| | | 87831-1819 | N.A | N.A | 1 | | | | | | | | | | | | | | |
| | | 87831-1820 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | | 87831-1821 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | | 87831-1836 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | | 87831-1828 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| A | 20 | 87831-1829 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | N.A | 18.00 | 20.85 | 22.65 | 21.00 | 14.00 | N.A | 2.50 | 3.60±0.20 |
| | | 87831-2019 | N.A | N.A | 1 | | | | | | | | | | | | | | |
| | | 87831-2020 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | | 87831-2021 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | | 87831-2036 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | | 87831-2028 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | | 87831-2029 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | | 87831-2035 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 87831-2010 | N.A | N.A | 2 | | | | | | | | | | | | | | | | |
| 87831-2011 | N.A | N.A | 3 | | | | | | | | | | | | | | | | |

- PLATING OPTIONS:
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
 - 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
 - 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
 - 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

| | | | | | | | | | |
|--|-------------------------|---|---|-------------------------------|-----------------------|--------------|---|---|--|
| RELEASED EC NO: S2015-1188 DRW:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29 | DESCRIPTION REV A | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | |
| | | $F_A=0$ $F_G=0$ $F_P=0$ | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- | MM ONLY | NTS | METRIC | DRAWN BY: GMENARLY DATE: 2015/04/15 CHECKED BY: _____ DATE: _____ APPROVED BY: KHL IM DATE: 2015/06/29 | TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | |
| | | ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. SEE TABLE | DOCUMENT NO. SD-87831-0001 | SHEET NO. 10 OF 13 | | | | |
| | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | |

22 TO 30 CIRCUITS

| F | CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | | | | | | | | |
|------------|------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|-------|-----------|-------|-------|-------|-----|------|-----------|-----|-----|-----|-----|-----|-----|------|
| | | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G | H | | | | | | |
| 22 | 87831-2219 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 20.00 | 22.85 | 24.65 | 23.00 | 16.00 | N.A | 2.50 | 3.60±0.20 | | | | | | | |
| | 87831-2220 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2221 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2236 | N.A | N.A | 4 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2228 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| 87831-2229 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | YES | 2.50 | | | | | | | | | | | | | | | |
| 24 | 87831-2419 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 22.00 | 24.85 | 26.65 | 25.00 | 18.00 | N.A | 2.50 | 3.60±0.20 | | | | | | | |
| | 87831-2420 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2421 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2436 | N.A | N.A | 4 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2428 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2429 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2435 | N.A | N.A | 3 | | | | | | | | | | | | | | | YES | N.A | YES | N.A | YES | YES | 3.50 |
| 87831-2410 | N.A | N.A | 2 | YES | N.A | YES | N.A | YES | N.A | 3.50 | | | | | | | | | | | | | | | |
| 26 | 87831-2619 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 24.00 | 26.85 | 28.65 | 27.00 | 20.00 | N.A | 2.50 | 3.60±0.20 | | | | | | | |
| | 87831-2620 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2621 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2636 | N.A | N.A | 4 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2628 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2629 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2610 | N.A | N.A | 2 | | | | | | | | | | | | | | | YES | N.A | YES | N.A | YES | N.A | 3.50 |
| 28 | 87831-2819 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 26.00 | 28.85 | 30.65 | 29.00 | 22.00 | N.A | 2.50 | 3.60±0.20 | | | | | | | |
| | 87831-2820 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2821 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2836 | N.A | N.A | 4 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2828 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-2829 | N.A | N.A | 3 | | | | | | | | | | | | | | | YES | N.A | YES | N.A | YES | YES | 2.50 |
| 30 | 87831-3019 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 28.00 | 30.85 | 32.65 | 31.00 | 24.00 | N.A | 2.50 | 3.60±0.20 | | | | | | | |
| | 87831-3020 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-3021 | N.A | N.A | 3 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-3036 | N.A | N.A | 4 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-3028 | N.A | N.A | 2 | | | | | | | | | | | | | | | | | | | | | |
| | 87831-3029 | N.A | N.A | 3 | | | | | | | | | | | | | | | YES | N.A | YES | N.A | YES | YES | 2.50 |
| | 87831-3035 | N.A | N.A | 3 | | | | | | | | | | | | | | | YES | N.A | YES | N.A | YES | YES | 3.50 |
| 87831-3010 | 87831-3030 | 87831-3050 | 2 | YES | N.A | YES | N.A | YES | N.A | 3.50 | | | | | | | | | | | | | | | |

PLATING OPTIONS:

- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

RELEASED
 IEC NO: S2015-1188
 DRW:GMENARLY 2015/04/15
 CH:KD:G0H 2015/06/29
 APPR:KHL IM 2015/06/29

QUALITY SYMBOLS
 F_A=0
 F_C=0
 F_B=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|----------|--------|-------|
| | mm | INCH |
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.20 | ± --- |
| 1 PLACE | ± --- | ± --- |
| 0 PLACE | ± --- | ± --- |

ANGULAR ± 3 °
 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

DRAWN BY: GMENARLY
 DATE: 2015/04/15

CHECKED BY: _____
 DATE: _____

APPROVED BY: KHL IM
 DATE: 2015/06/29

MATERIAL NO. _____

DOCUMENT NO. **SD-87831-0001**

SHEET NO. **11 OF 13**

MILLIGRID
 2MM PITCH, THROUGH HOLE
 VERTICAL SHROUDED HEADER

molex


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

32 TO 40 CIRCUITS

| F | CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | |
|------------|------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|-------|-----------|-------|-------|-------|-----|------|-----------|
| | | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G |
| 32 | 87831-3219 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 30.00 | 32.85 | 34.65 | 33.00 | 26.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-3220 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-3221 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-3236 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-3228 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| 87831-3229 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | YES | 2.50 | | | | | | | | |
| 34 | 87831-3419 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 32.00 | 34.85 | 36.65 | 35.00 | 28.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-3420 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-3421 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-3436 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-3428 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-3429 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 87831-3435 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | YES | 3.50 | | | | | | | | |
| 36 | 87831-3619 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 34.00 | 36.85 | 38.65 | 37.00 | 30.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-3620 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-3621 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-3636 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-3628 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-3629 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 38 | 87831-3819 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 36.00 | 38.85 | 40.65 | 39.00 | 32.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-3820 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-3821 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-3836 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-3828 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-3829 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 40 | 87831-4019 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 38.00 | 40.85 | 42.65 | 41.00 | 34.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-4020 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4021 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-4036 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-4028 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4029 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-4010 | N.A | N.A | 2 | | | | | | | | | | | | | | |

PLATING OPTIONS:

- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

| | | | | | | | | |
|---|-------------|--|---|---|-------|--------------|--|---|
| RELEASED EC NO: S2015-1188 DRWNG:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | | $F_A=0$ $F_G=0$ $F_P=0$ | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- | MM ONLY | NTS | METRIC | DRAWN BY: GMENARLY DATE: 2015/04/15 CHECKED BY: DATE: | MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER  DOCUMENT NO. SD-87831-0001 SHEET NO. 12 OF 13 |
| | | ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | APPROVED BY: KHLIM DATE: 2015/06/29 MATERIAL NO. SEE TABLE | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |
| | | A | SIZE: A3 | INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

42 TO 50 CIRCUITS

| CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS | | SIDE SLOTS | | CENTER POLARIZATION | PEG | DIMENSION | | | | | | | |
|------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|------|-----------|-------|-------|-------|-------|-----|------|-----------|
| | | | | | DUAL | CENTER | DUAL | SINGLE | | | A | B | C | D | E | F | G | H |
| 42 | 87831-4219 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 40.00 | 42.85 | 44.65 | 43.00 | 36.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-4220 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4221 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-4236 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-4228 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| 87831-4229 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | YES | 2.50 | | | | | | | | |
| 44 | 87831-4419 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 42.00 | 44.85 | 46.65 | 45.00 | 38.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-4420 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4421 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-4436 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-4428 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4429 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 87831-4435 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | YES | 3.50 | | | | | | | | |
| 46 | 87831-4619 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 44.00 | 46.85 | 48.65 | 47.00 | 40.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-4620 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4621 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-4636 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-4628 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4629 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 48 | 87831-4819 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 46.00 | 48.85 | 50.65 | 49.00 | 42.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-4820 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4821 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-4836 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-4828 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-4829 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 50 | 87831-5019 | N.A | N.A | 1 | YES | N.A | YES | N.A | YES | N.A | 48.00 | 50.85 | 52.65 | 51.00 | 44.00 | N.A | 2.50 | 3.60±0.20 |
| | 87831-5020 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-5021 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| | 87831-5036 | N.A | N.A | 4 | | | | | | | | | | | | | | |
| | 87831-5028 | N.A | N.A | 2 | | | | | | | | | | | | | | |
| | 87831-5029 | N.A | N.A | 3 | | | | | | | | | | | | | | |
| 87831-5035 | N.A | N.A | 3 | YES | N.A | YES | N.A | YES | YES | 3.50 | | | | | | | | |

PLATING OPTIONS:

- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

| | | | | | | | | | | | | | |
|--|--|--------------------|--|---------------------------------------|----------------------|--|---------------------|---|---------------|------------------------|--|-----------|--|
| RELEASED IEC NO: S2015-1188 DRWNG:GMENARLY CHK'D:CGOH APPR:KHLIM | 2015/04/15 2015/06/29 2015/06/29 | DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | | |
| | | | $\nabla_F = 0$ $\nabla_F = 0$ $\nabla_F = 0$ | mm | INCH | MM ONLY | NTS | METRIC | DRAWN BY DATE | | TITLE | | |
| | | | | 4 PLACES ± --- ± --- | 3 PLACES ± --- ± --- | 2 PLACES ± 0.20 ± --- | 1 PLACE ± --- ± --- | 0 PLACE ± --- ± --- | GMENARLY | 2015/04/15 | MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER | | |
| | | | | ANGULAR ± 3 ° | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | APPROVED BY DATE | | DOCUMENT NO. | | SHEET NO. | |
| A | | | | | | KHLIM | 2015/06/29 | SD-87831-0001 | | 13 OF 13 | | | |
| | | | | | | MATERIAL NO. | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | |
| | | | | | | SEE TABLE | | | | | | | |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

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