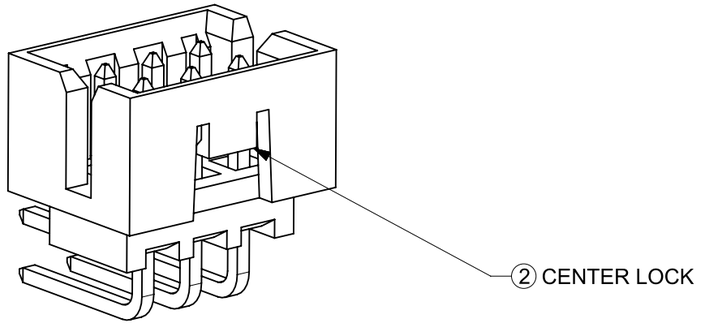
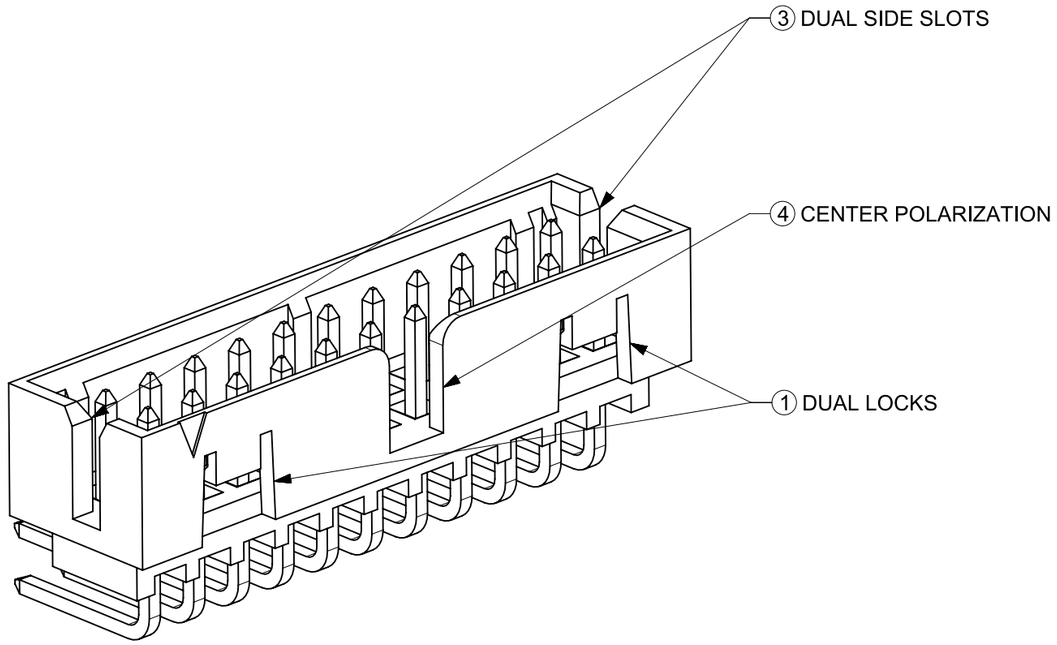
FEATURES SELECTION GUIDE

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





PACKAGING SPECIFICATION TABLE

TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.200
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

STATUS: Production

DRWN:	Meghraj Boodagatti	2026-06-03
CHK'D:	Meghraj Boodagatti	2026-06-10
APPR:	Saravanakumar Murugesan	2026-06-10

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 87833

molex

MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

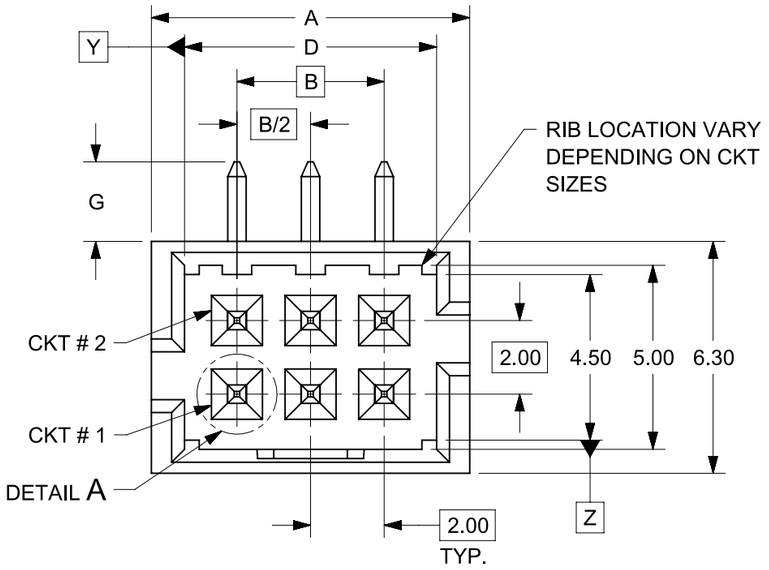
PRODUCT CUSTOMER DRAWING

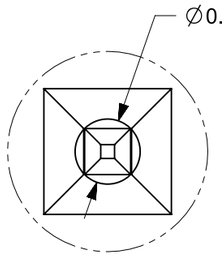
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 9

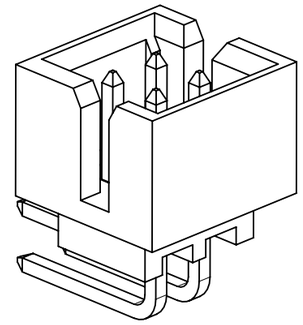
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REVISION: B
DATE: 2022/08/01

4 TO 6 CIRCUITS

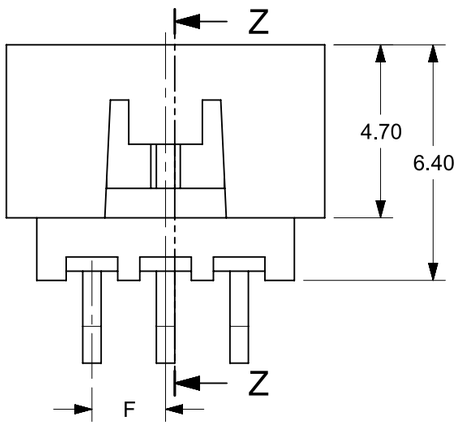


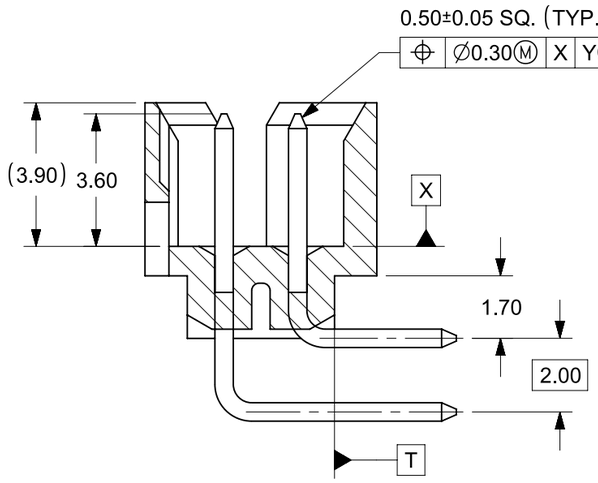


DETAIL A

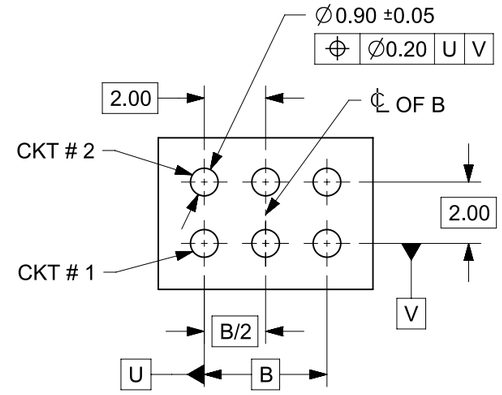


ISO VIEW OF HEADER
DUAL SIDE SLOTS

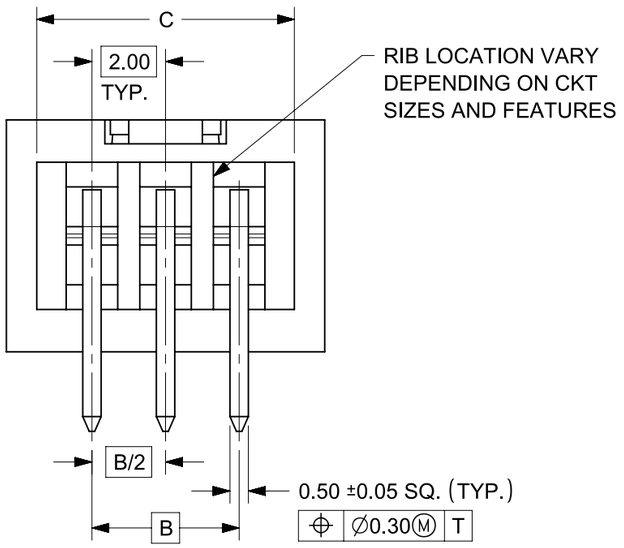


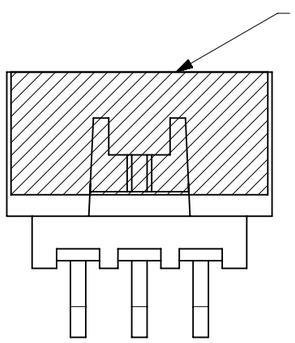


SECTION Z-Z



RECOMMENDED PCB LAYOUT





NOTES:
1. MATERIALS:
   HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK.
   PIN: 0.50mm SQ. PHOSPHOR BRONZE.
2. FINISHES: REFER TO PLATING OPTIONS.
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. 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)
6. FOR ILLUSTRATION PURPOSE, 6 CIRCUITS HEADER IS SHOWN.

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
FA = 0	DIMENSION UNITS: mm	SCALE: 5:1	CURRENT REV DESC: Adding New Part Numbers							
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)									
FP = 0	ANGULAR TOL ± 3°									
	4 PLACES ±									
DIVISIONAL SYMBOLS	3 PLACES ±									
	2 PLACES ± 0.200		STATUS: Production							
	1 PLACE ±		DRWN: Meghraj Boodagatti 2026-06-03							
	0 PLACES ±		CHK'D: Meghraj Boodagatti 2026-06-10							
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: Saravanakumar Murugesan 2026-06-10							
	THIRD ANGLE PROJECTION	DRAWING: A3-SIZE	SERIES: 87833	MATERIAL NUMBER: SEE TABLE	CUSTOMER: GENERAL MARKET	SHEET NUMBER: 2 OF 9				

molex

MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

4 TO 6 CIRCUITS

CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION						
					DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)
4	87833-0419	N.A	N.A	1	N.A	N.A	YES	N.A	6.65	2.00	5.00	4.85	N.A	N.A	2.16
	87833-0420	N.A	N.A	2											
	87833-0421	N.A	N.A	3											
	87833-5920	N.A	N.A	2	N.A	N.A	YES	N.A						N.A	3.18
	87833-0431	87833-0441	87833-0451	2	N.A	YES	YES	N.A						1.00	2.16
	87833-0432	N.A	N.A	3											
	87833-0461	N.A	N.A	2	N.A	YES	YES	N.A						1.00	3.18
6	87833-0619	N.A	N.A	1	N.A	N.A	YES	N.A	8.65	4.00	7.00	6.85	N.A	N.A	2.16
	87833-0620	N.A	87833-0626	2											
	87833-0621	N.A	N.A	3											
	87833-6420	N.A	N.A	2	N.A	N.A	YES	N.A						N.A	3.18
	87833-0631	87833-0641	87833-0651	2	N.A	YES	YES	N.A						2.00	2.16
	87833-0632	N.A	N.A	3											
	87833-0661	N.A	N.A	2	N.A	YES	YES	N.A						2.00	3.18
	87833-0624	N.A	N.A	2	N.A	N.A	YES	N.A						N.A	2.92
	87833-0625	N.A	N.A	3											

PLATING OPTIONS:

1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

2 - 0.38µm/15µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

3 - 0.76µm/30µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.200
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

STATUS: Production
DRWN: Meghraj Boodagatti 2026-06-03
CHK'D: Meghraj Boodagatti 2026-06-10
APPR: Saravanakumar Murugesan 2026-06-10

molex

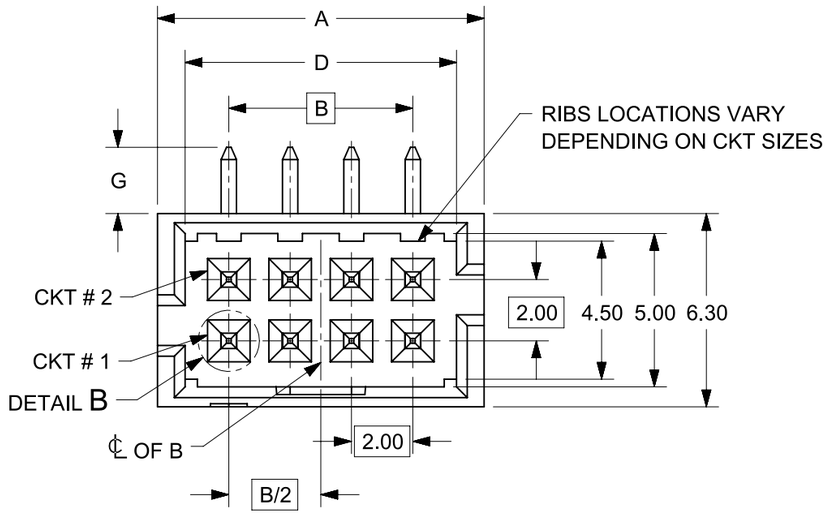
MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

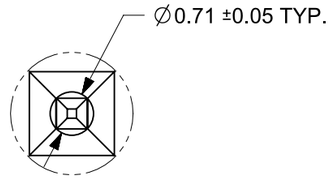
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

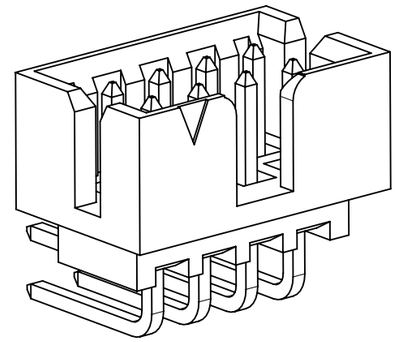
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	87833	SEE TABLE	GENERAL MARKET	3 OF 9

8 TO 12 CIRCUITS

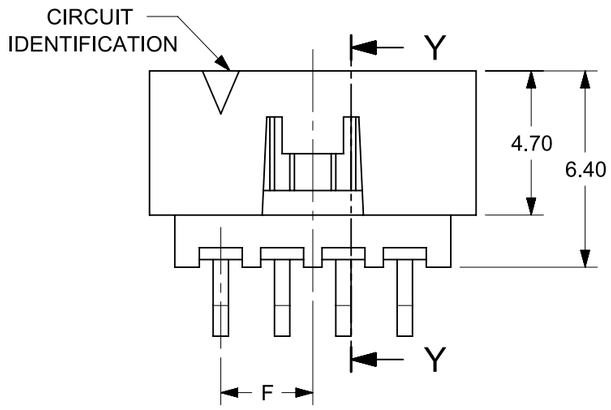


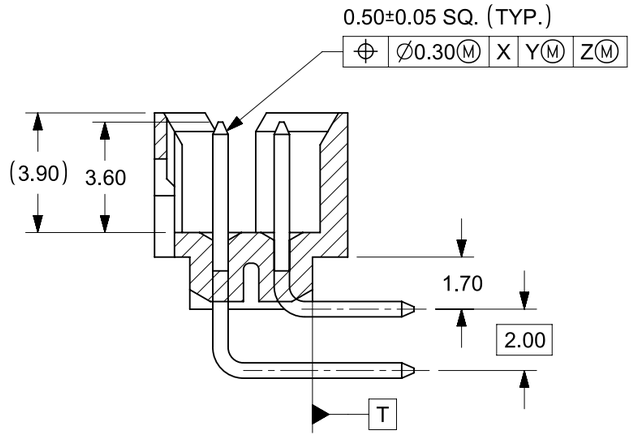


DETAIL B

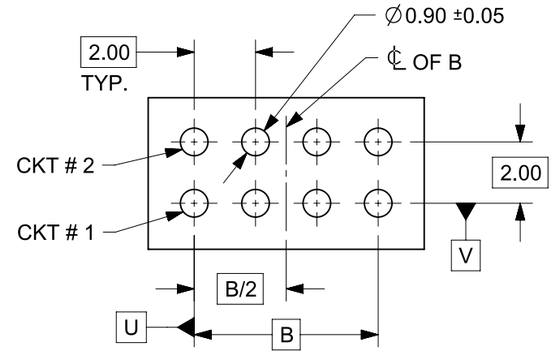


ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS

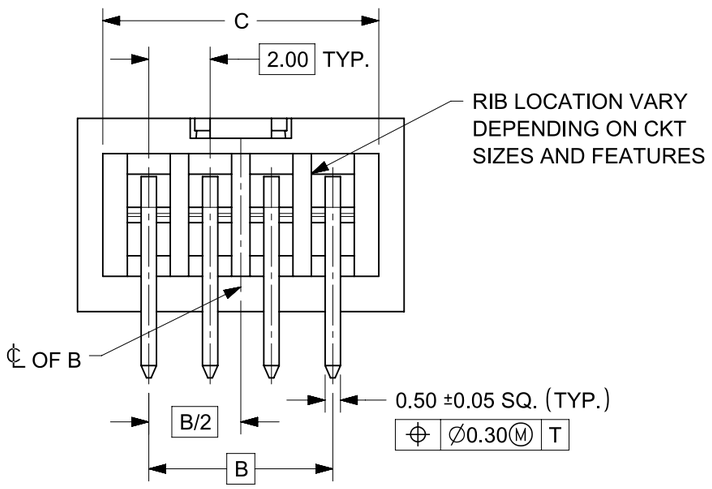


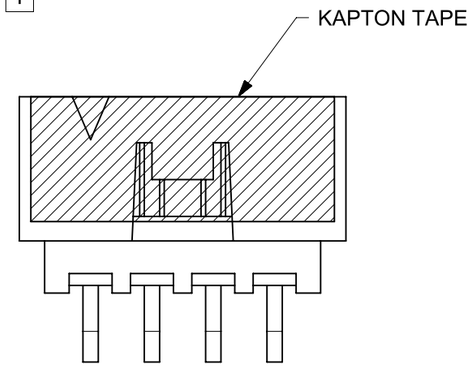


SECTION Y-Y



RECOMMENDED PCB LAYOUT





NOTES:
1. MATERIALS:
   HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
   PIN: 0.50mm SQ. PHOSPHOR BRONZE.
2. FINISHES: REFER TO PLATING OPTIONS.
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. 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)
6. FOR ILLUSTRATION PURPOSE, 8 CIRCUIT HEADER IS SHOWN.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.200
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

STATUS: Production
DRWN: Meghraj Boodagatti 2026-06-03
CHK'D: Meghraj Boodagatti 2026-06-10
APPR: Saravanakumar Murugesan 2026-06-10

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 87833

molex

MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	4 OF 9

8 TO 12 CIRCUITS

CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION						
					DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)
8	87833-0819	N.A	N.A	1	N.A	N.A	YES	YES	10.65	6.00	9.00	8.85	N.A	N.A	2.16
	87833-0820	N.A	N.A	2											
	87833-0821	N.A	87833-7621	3											
	87833-6320	N.A	N.A	2	N.A	N.A	YES	YES						N.A	3.18
	87833-6321	N.A	N.A	3											
	87833-0831	87833-0841	87833-0851	2	N.A	YES	YES	N.A						3.00	2.16
	87833-0832	N.A	N.A	3											
	87833-0861	N.A	N.A	2	N.A	YES	YES	N.A						3.00	3.18
	87833-0824	N.A	N.A	2	N.A	N.A	YES	YES						N.A	2.92
	87833-0825	N.A	N.A	3											
10	87833-1019	N.A	N.A	1	N.A	N.A	YES	YES	12.65	8.00	11.00	10.85	N.A	N.A	2.16
	87833-1020	N.A	87833-1026	2											
	87833-1021	N.A	N.A	3											
	87833-1031	N.A	87833-1027	2	N.A	YES	YES	N.A						4.00	2.16
	87833-1032	N.A	N.A	3											
	N.A	87833-1041	87833-1051	2	N.A	YES	YES	N.A						4.00	1.70
	87833-1024	N.A	N.A	2	N.A	N.A	YES	YES						N.A	2.92
	87833-1025	N.A	N.A	3											
12	87833-1219	N.A	N.A	1	N.A	N.A	YES	YES	14.65	10.00	13.00	12.85	N.A	N.A	2.16
	87833-1220	N.A	87833-1240	2											
	87833-1221	N.A	N.A	3											
	87833-6020	N.A	N.A	2	N.A	N.A	YES	YES						N.A	3.18
	87833-1231	N.A	N.A	2	N.A	YES	YES	N.A						5.00	2.16
	87833-1232	N.A	N.A	3											
	87833-1224	N.A	N.A	2	N.A	N.A	YES	YES						N.A	2.92
	87833-1225	N.A	N.A	3											

PLATING OPTIONS:

1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

2 - 0.38µm/15µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

3 - 0.76µm/30µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.200
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

STATUS: Production

DRWN:	Meghraj Boodagatti	2026-06-03
CHK'D:	Meghraj Boodagatti	2026-06-10
APPR:	Saravanakumar Murugesan	2026-06-10

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 87833

molex

MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

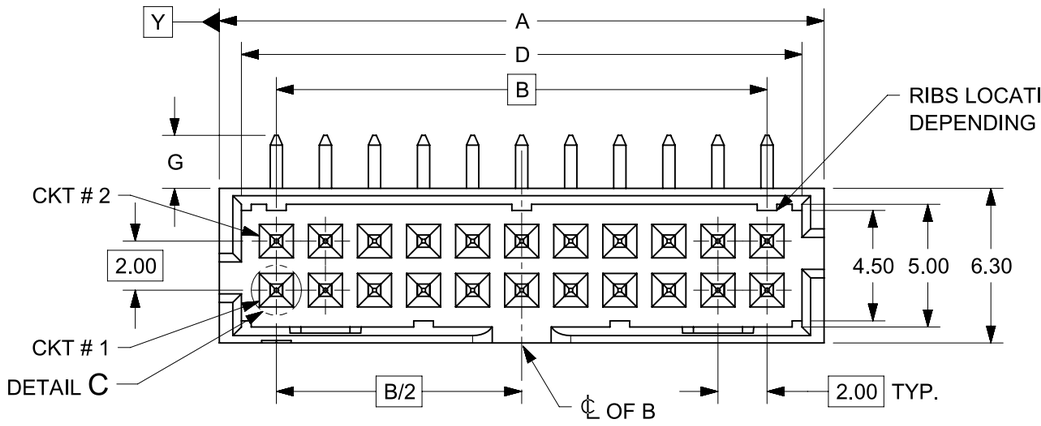
PRODUCT CUSTOMER DRAWING

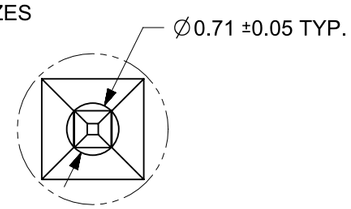
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	5 OF 9

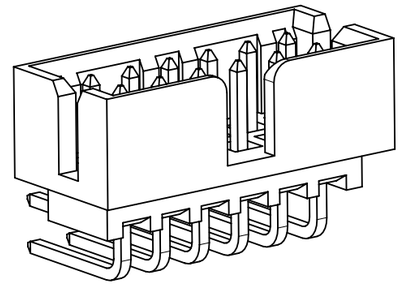
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REVISION: B
DATE: 2022/08/01

14 TO 50 CIRCUITS

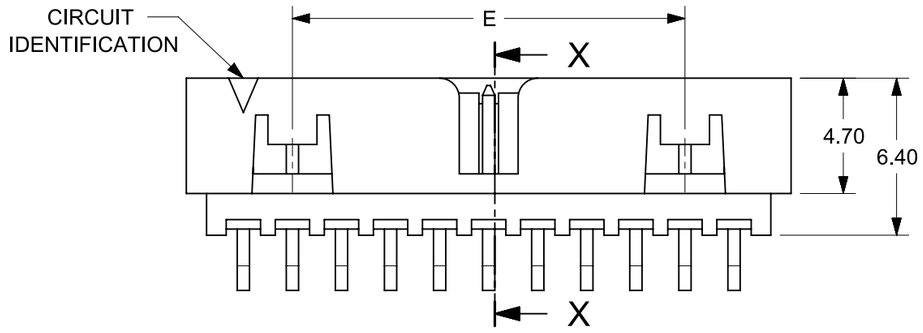


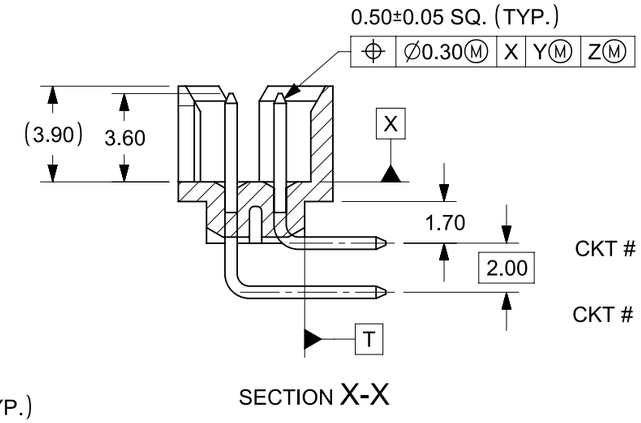


DETAIL C

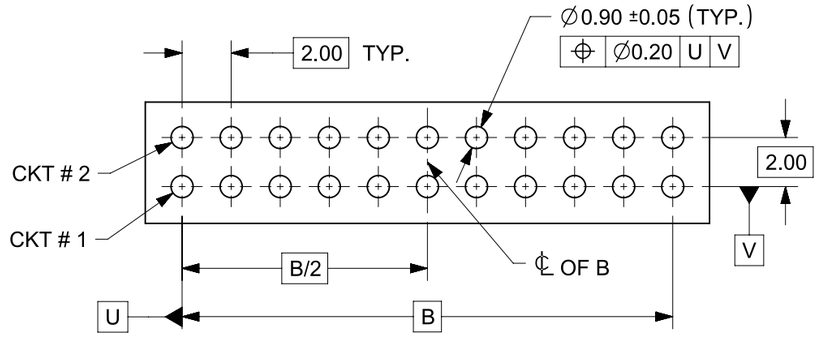


ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS

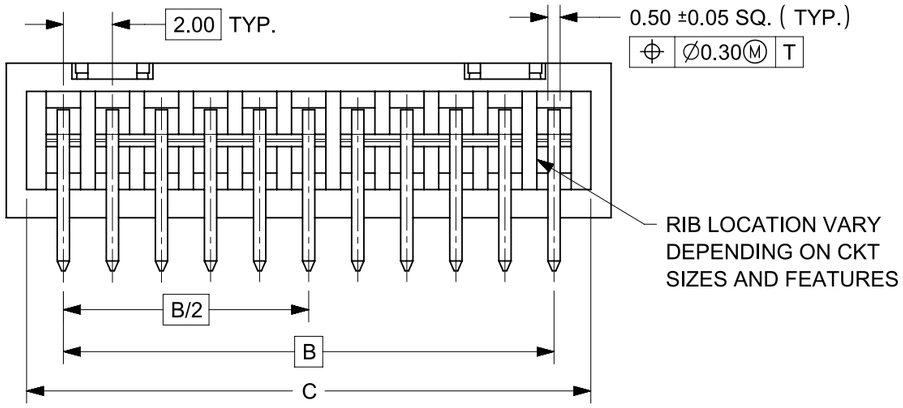


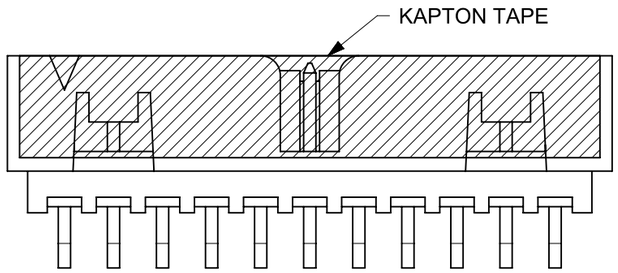


SECTION X-X



RECOMMENDED PCB LAYOUT





NOTES:
1. MATERIALS:
   HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK.
   PIN: 0.50mm SQ PHOSPHOR BRONZE.
2. FINISHES: REFER TO PLATING OPTIONS.
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. 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)
6. FOR ILLUSTRATION PURPOSE, 22 CIRCUITS HEADER IS SHOWN.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0	DIMENSION UNITS: mm	SCALE: 5:1	CURRENT REV DESC: Adding New Part Numbers	molex	
	GENERAL TOLERANCES (UNLESS SPECIFIED)			MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE	
	ANGULAR TOL ± 3°			PRODUCT CUSTOMER DRAWING	
	4 PLACES ±		STATUS: Production	DOCUMENT NUMBER: SD-87833-0001	DOC TYPE: PSD; DOC PART: 001; REVISION: A15
DIVISIONAL SYMBOLS	3 PLACES ±		DRWN: Meghraj Boodagatti 2026-06-03		
	2 PLACES ± 0.200		CHK'D: Meghraj Boodagatti 2026-06-10		
	1 PLACE ±		APPR: Saravanakumar Murugesan 2026-06-10		
	0 PLACES ±				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: A3-SIZE	SERIES: 87833	MATERIAL NUMBER: SEE TABLE; CUSTOMER: GENERAL MARKET; SHEET NUMBER: 6 OF 9

14 TO 24 CIRCUITS

CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	ASSY. P/N WITHOUT KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION						
						DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)
14	87833-1419	N.A	N.A	N.A	1	YES	N.A	YES	YES	16.65	12.00	15.00	14.85	8.00	N.A	2.16
	87833-1420	N.A	N.A	N.A	2											
	87833-1421	N.A	N.A	N.A	3											
	87833-5320	N.A	N.A	N.A	2	YES	N.A	YES	YES							3.18
	87833-5321	N.A	N.A	N.A	3											
	87833-1436	N.A	N.A	N.A	3	YES	N.A	YES	YES							3.50
	87833-7520	N.A	87833-7420	N.A	2	YES	N.A	YES	YES							1.70
16	87833-1619	N.A	N.A	N.A	1	YES	N.A	YES	YES	18.65	14.00	17.00	16.85	10.00	N.A	2.16
	87833-1620	N.A	N.A	N.A	2											
	87833-1621	N.A	87833-7821	N.A	3											
	87833-6120	N.A	87833-7120	N.A	2	YES	N.A	YES	YES							3.18
18	87833-1819	N.A	N.A	N.A	1	YES	N.A	YES	YES	20.65	16.00	19.00	18.85	12.00	N.A	2.16
	87833-1820	N.A	N.A	N.A	2											
	87833-1821	N.A	N.A	N.A	3											
	87833-6220	N.A	N.A	N.A	2	YES	N.A	YES	YES							3.18
20	87833-2019	N.A	N.A	N.A	1	YES	N.A	YES	YES	22.65	18.00	21.00	20.85	14.00	N.A	2.16
	87833-2020	N.A	87833-7220	N.A	2											
	87833-2021	N.A	N.A	N.A	3											
	87833-6520	N.A	N.A	N.A	2	YES	N.A	YES	YES							3.18
	87833-6521	N.A	N.A	(A14) 87833-2037	3											
	87833-2036	N.A	N.A	N.A	3	YES	N.A	YES	YES							3.50
22	87833-2219	N.A	N.A	N.A	1	YES	N.A	YES	YES	24.65	20.00	23.00	22.85	16.00	N.A	2.16
	87833-2220	N.A	N.A	N.A	2											
	87833-2221	N.A	N.A	N.A	3											
24	87833-2419	N.A	N.A	N.A	1	YES	N.A	YES	YES	26.65	22.00	25.00	24.85	18.00	N.A	2.16
	87833-2420	N.A	87833-7020	N.A	2											
	87833-2421	N.A	N.A	N.A	3											
	87833-7320	N.A	N.A	N.A	2	YES	N.A	YES	YES							2.00
	87833-2436	N.A	N.A	N.A	3	YES	N.A	YES	YES							3.50
	87833-6920	N.A	N.A	N.A	2	YES	N.A	YES	YES							3.27

PLATING OPTIONS:

1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

2 - 0.38µm/15µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

3 - 0.76µm/30µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0

DIVISIONAL SYMBOLS

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DIMENSION UNITS: mm | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.200
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

STATUS: Production

DRWN:	Meghraj Boodagatti	2026-06-03
CHK'D:	Meghraj Boodagatti	2026-06-10
APPR:	Saravanakumar Murugesan	2026-06-10

molex

MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	87833	SEE TABLE	GENERAL MARKET	7 OF 9

FORMAT: TC-2000-A3
REVISION: B
DATE: 2022/08/01

26 TO 38 CIRCUITS

CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION						
					DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)
26	87833-2619	N.A	N.A	1	YES	N.A	YES	YES	28.65	24.00	27.00	26.85	20.00	N.A	2.16
	87833-2620	N.A	N.A	2											
	87833-2621	N.A	N.A	3											
	87833-2636	N.A	N.A	3	YES	N.A	YES	YES							3.50
28	87833-2819	N.A	N.A	1	YES	N.A	YES	YES	30.65	26.00	29.00	28.85	22.00	N.A	2.16
	87833-2820	N.A	N.A	2											
	87833-2821	N.A	N.A	3											
	87833-6620	N.A	N.A	2	YES	N.A	YES	YES							3.18
30	87833-3019	N.A	N.A	1	YES	N.A	YES	YES	32.65	28.00	31.00	30.85	24.00	N.A	2.16
	87833-3020	N.A	N.A	2											
	87833-3021	N.A	N.A	3											
	87833-6720	N.A	N.A	2	YES	N.A	YES	YES							3.18
	87833-6721	N.A	N.A	3											
	87833-3036	N.A	N.A	3	YES	N.A	YES	YES							3.50
32	87833-3219	N.A	N.A	1	YES	N.A	YES	YES	34.65	30.00	33.00	32.85	26.00	N.A	2.16
	87833-3220	N.A	N.A	2											
	87833-3221	N.A	N.A	3											
34	87833-3419	N.A	N.A	1	YES	N.A	YES	YES	36.65	32.00	35.00	34.85	28.00	N.A	2.16
	87833-3420	N.A	N.A	2											
	87833-3421	N.A	N.A	3											
	87833-5420	N.A	N.A	2	YES	N.A	YES	YES							3.18
	87833-3424	N.A	N.A	2	N.A	N.A	YES	YES							2.92
36	87833-3619	N.A	N.A	1	YES	N.A	YES	YES	38.65	34.00	37.00	36.85	30.00	N.A	2.16
	87833-3620	N.A	N.A	2											
	87833-3621	N.A	N.A	3											
38	87833-3819	N.A	N.A	1	YES	N.A	YES	YES	40.65	36.00	39.00	38.85	32.00	N.A	2.16
	87833-3820	N.A	N.A	2											
	87833-3821	N.A	N.A	3											

PLATING OPTIONS:

1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

2 - 0.38µm/15µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

3 - 0.76µm/30µin MIN. GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 3°

4 PLACES	±
3 PLACES	±
2 PLACES	± 0.200
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

STATUS: Production

DRWN: Meghraj Boodagatti 2026-06-03
CHK'D: Meghraj Boodagatti 2026-06-10
APPR: Saravanakumar Murugesan 2026-06-10

molex

MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 87833

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	8 OF 9

FORMAT: TC-0000-A3
REVISION: B
DATE: 2022/08/01

40 TO 50 CIRCUITS

CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	ASSY. P/N WITHOUT KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION						
						DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)
40	87833-4019	N.A	N.A	N.A	1	YES	N.A	YES	YES	42.65	38.00	41.00	40.85	34.00	N.A	2.16
	87833-4020	N.A	N.A	N.A	2											
	87833-4021	N.A	N.A	N.A	3											
42	87833-4219	N.A	N.A	N.A	1	YES	N.A	YES	YES	44.65	40.00	43.00	42.85	36.00	N.A	2.16
	87833-4220	N.A	N.A	N.A	2											
	87833-4221	N.A	N.A	N.A	3											
	87833-4222	N.A	87833-4322	87833-4223	3	YES	N.A	YES	YES							3.50
44	87833-4419	N.A	N.A	N.A	1	44.65	40.00	43.00	42.85	2.16	42.00	45.00	44.85	38.00	N.A	2.16
	87833-4420	N.A	N.A	N.A	2											
	87833-4421	N.A	N.A	N.A	3											
	87833-4424	N.A	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-4425	N.A	N.A	N.A	3											2.92
46	87833-4619	N.A	N.A	N.A	1	YES	N.A	YES	YES	48.65	44.00	47.00	46.85	40.00	N.A	2.16
	87833-4620	N.A	N.A	N.A	2											
	87833-4621	N.A	N.A	N.A	3											
48	87833-4819	N.A	N.A	N.A	1	YES	N.A	YES	YES	50.65	46.00	49.00	48.85	42.00	N.A	2.16
	87833-4820	N.A	N.A	N.A	2											
	87833-4821	N.A	N.A	N.A	3											
50	87833-5019	N.A	N.A	N.A	1	YES	N.A	YES	YES	52.65	48.00	51.00	50.85	44.00	N.A	2.16
	87833-5020	N.A	N.A	N.A	2											
	87833-5021	N.A	N.A	N.A	3											

PLATING OPTIONS:

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1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
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DIMENSION UNITS: mm | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.200
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

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DRWN:	Meghraj Boodagatti	2026-06-03
CHK'D:	Meghraj Boodagatti	2026-06-10
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molex

MILLIGRID, 2MM PITCH
SHROUDED HEADER R/A, THROUGH HOLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87833-0001	PSD	001	A15

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	87833	SEE TABLE	GENERAL MARKET	9 OF 9