

## Excellent Integrated System Limited

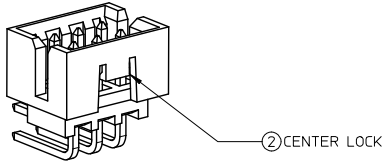
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

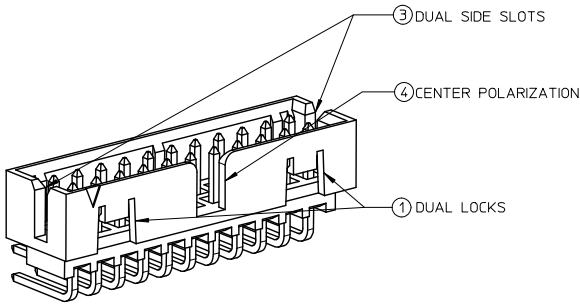
[Molex Connector Corporation](#)  
[87833-1820](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

FEATURES SELECTION GUIDE



② CENTER LOCK



③ DUAL SIDE SLOTS

④ CENTER POLARIZATION

① DUAL LOCKS

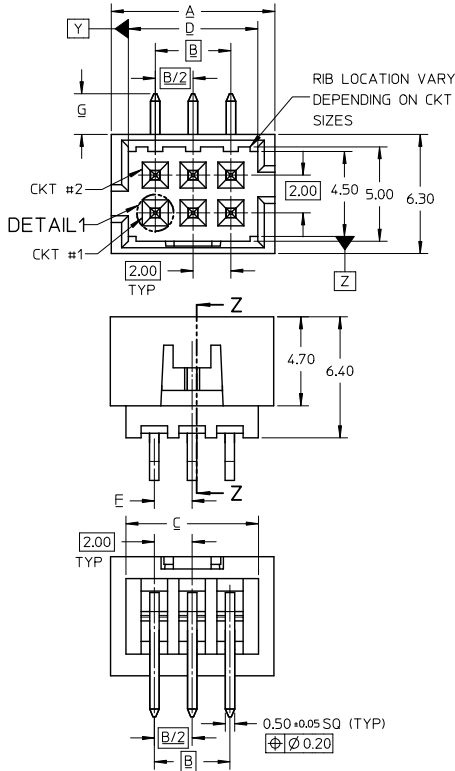
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	② CENTER			
4 - 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

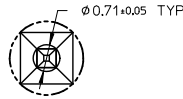
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

<b>ADD PK TABLE</b> EC NO: S2017-0022 DRAWN BY: GMENARLY 2016/07/12 CHECKED BY: CHYKD-SICHEONG 2016/07/27 APPROVED BY: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																		
	$\nabla=0$ $\nabla=0$ $\nabla=0$	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±0.20</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>0 PLACE</td> <td>±---</td> <td>±---</td> </tr> </table>		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±0.20	±---	1 PLACE	±---	±---	0 PLACE	±---	±---	MM ONLY	NTS	METRIC	
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ANGULAR ± 3° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: GMENARLY 2015/09/29 CHECKED BY: CGOH 2015/10/30 APPROVED BY: KHLIM 2015/11/03 MATERIAL NO. SEE TABLE SIZE: A3	TITLE: MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER 	DOCUMENT NO. SD-87833-0001	SHEET NO. 1 OF 9																				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																								

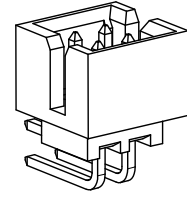
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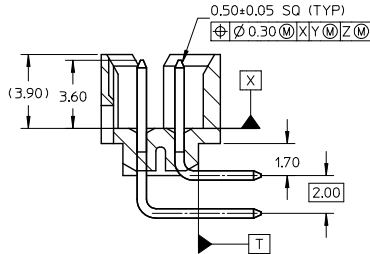
4 TO 6 CIRCUITS



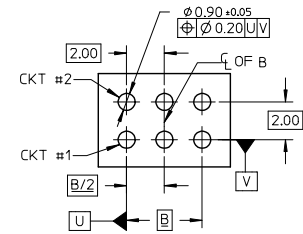
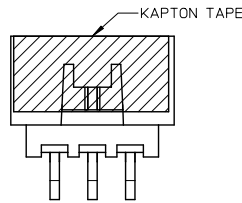
DETAIL 1



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

EDIT NOTE 4 EC NO: S2017-0022 DRAWN: GMENARLY 2016/07/12 CHECKED: SCHEONG 2016/07/27 APPR: KHL IM 2016/07/28 REV A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																												
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DRAFT WHERE APPLICABLE WITHIN DIMENSIONS	ANGULAR ± 3° MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE SIZE A3	DOCUMENT NO. SD-87833-0001	SHEET NO. 2 OF 9																														

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

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										N.A	3.18
	87833-0421	N.A	N.A	3	N.A	2.16									
	87833-5920	N.A	N.A	2	N.A	3.18									
	87833-0431	87833-0441	87833-0451	2	N.A	1.00									
	87833-0432	N.A	N.A	3	N.A	2.16									
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	N.A	2										N.A	3.18
	87833-0621	N.A	N.A	3	N.A	2.16									
	87833-6420	N.A	N.A	2	N.A	3.18									
	87833-0631	87833-0641	87833-0651	2	N.A	2.00									
	87833-0632	N.A	N.A	3	N.A	2.16									
	87833-0661	N.A	N.A	2	N.A	3.18									
	87833-0624	N.A	N.A	2	N.A	2.92									
	87833-0625	N.A	N.A	3	N.A										

PLATING OPTIONS:

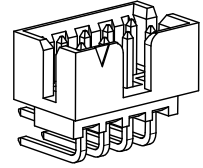
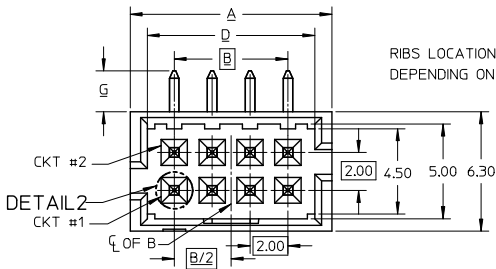
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD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

SEE SHEET 1.2.4.6 EC NO: S2017-0022 DRAWN: MENARLY 2016/07/17 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																		
	$\sqrt{\text{---}}=0$ $\sqrt{\text{---}}=0$ $\sqrt{\text{---}}=0$	<table border="1"> <tr><th colspan="2">mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>2 PLACES</td><td>± 0.20</td><td>± ---</td></tr> <tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr> <tr><td>0 PLACE</td><td>± ---</td><td>± ---</td></tr> </table>	mm		INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	0 PLACE	± ---	± ---	MM ONLY	NTS	METRIC	
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																								

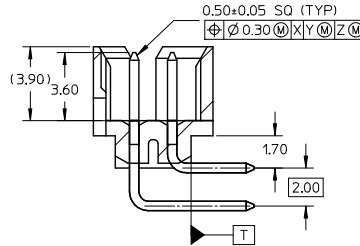
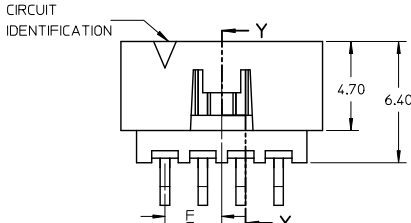
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10 9 8 7 6 5 4 3 2 1

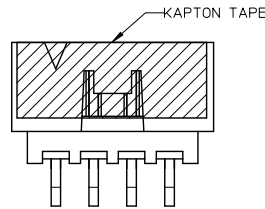
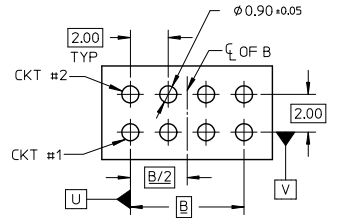
8 TO 12 CIRCUITS



ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



SECTION Y-Y



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: SEE PACKAGING SPECS TABLE ON SHEET 1
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 5110 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)
- FOR ILLUSTRATION PURPOSE, 8 CIRCUIT HEADER IS SHOWN

EDIT NOTE 4 EC NO: S2017-0022 DRAWN: GEMARLY 2016/07/17 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 A2	QUALITY SYMBOLS √=0 √=0 √=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
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		4 PLACES	±---	±---	CHECKED BY CGOH	DATE 2015/10/30	<b>molex</b> DOCUMENT NO. SD-87833-0001 SHEET NO. 4 OF 9		
		3 PLACES	±---	±---	APPROVED BY KHLIM	DATE 2015/11/03			
			ANGULAR ± 3°		MATERIAL NO. SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3				

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

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					10.65	6.00	9.00	8.85	N.A	N.A	2.16
	87833-0820	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-0821	N.A	N.A	3											
	87833-6320	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-6321	N.A	N.A	3											
	87833-0831	87833-0841	87833-0851	2	N.A	YES	YES	N.A							
	87833-0832	N.A	N.A	3											
	87833-0861	N.A	N.A	2	N.A	YES	YES	N.A							
87833-0824	N.A	N.A	2	N.A	N.A	YES	YES								
87833-0825	N.A	N.A	3												
10	87832-1019	N.A	N.A	1					12.65	8.00	11.00	10.85	N.A	N.A	2.16
	87833-1020	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-1021	N.A	N.A	3											
	87833-1031	N.A	N.A	2	N.A	YES	YES	N.A							
	87833-1032	N.A	N.A	3											
	N.A	87833-1041	87833-1051	2	N.A	YES	YES	N.A							
	87833-1024	N.A	N.A	2	N.A	N.A	YES	YES							
87833-1025	N.A	N.A	3												
12	87833-1219	N.A	N.A	1					14.65	10.00	13.00	12.85	N.A	N.A	2.16
	87833-1220	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-1221	N.A	N.A	3											
	87833-6020	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-1231	N.A	N.A	2	N.A	YES	YES	N.A							
	87833-1232	N.A	N.A	3											
	87833-1224	N.A	N.A	2	N.A	N.A	YES	YES							
87833-1225	N.A	N.A	3												

PLATING OPTIONS:

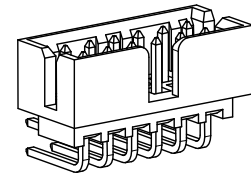
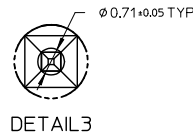
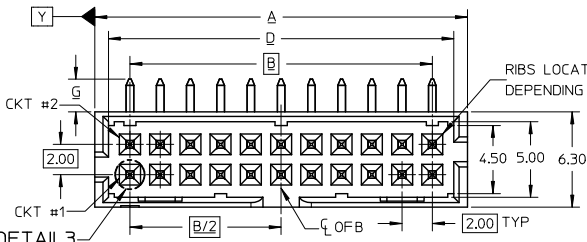
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SEE SHEET 12.4.6 IEC NO: S2017-0022 DRAWN BY: GEMENARLY 2016/07/12 CHECKED BY: CHIKO-SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
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		ANGULAR ± 3°		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87833-0001		SHEET NO. 5 OF 9
		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		

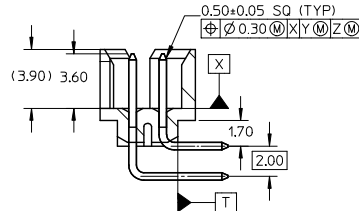
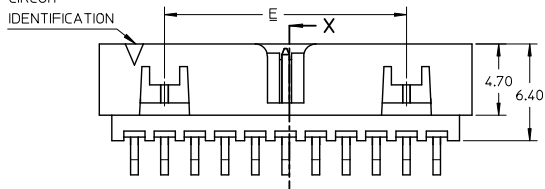
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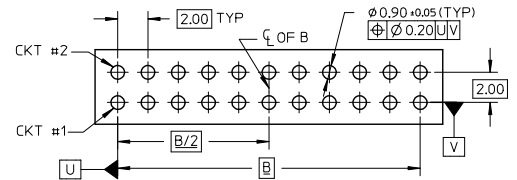
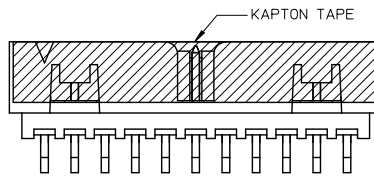
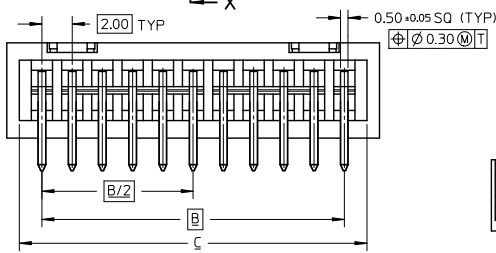
14 TO 50 CIRCUITS



ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



SECTION X-X



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: SEE PACKAGING SPECS TABLE ON SHEET 1
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B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
- FOR ILLUSTRATION PURPOSE, 22 CIRCUITS HEADER IS SHOWN

<b>EDIT NOTE 4</b> EC NO: S2017-0022 DRAWN BY: GMENARLY 2016/07/27 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	mm INCH	DRAWN BY GMENARLY	DATE 2015/09/29	TITLE MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER					
		ANGULAR ± 3°		CHECKED BY CGOH	DATE 2015/10/30	MATERIAL NO. SEE TABLE					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY KHLIM	DATE 2015/11/03	DOCUMENT NO. SD-87833-0001		SHEET NO. 6 OF 9			

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

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	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	1					16.65	12.00	15.00	14.85	8.00	N.A	2.16
	87833-1420	N.A	N.A	2	YES	N.A	YES	YES							3.18
	87833-1421	N.A	N.A	3											3.50
	87833-5320	N.A	N.A	2	YES	N.A	YES	YES							
	87833-5321	N.A	N.A	3	YES	N.A	YES	YES							
16	87833-1619	N.A	N.A	1					18.65	14.00	17.00	16.85	10.00	N.A	2.16
	87833-1620	N.A	N.A	2	YES	N.A	YES	YES							3.18
	87833-1621	N.A	N.A	3											
	87833-6120	N.A	87833-7120	2	YES	N.A	YES	YES							
18	87833-1819	N.A	N.A	1					20.65	16.00	19.00	18.85	12.00	N.A	2.16
	87833-1820	N.A	N.A	2	YES	N.A	YES	YES							3.18
	87833-1821	N.A	N.A	3											
	87833-6220	N.A	N.A	2	YES	N.A	YES	YES							
20	87833-2019	N.A	N.A	1					22.65	18.00	21.00	20.85	14.00	N.A	2.16
	87833-2020	N.A	87833-7220	2	YES	N.A	YES	YES							3.18
	87833-2021	N.A	N.A	3											3.50
	87833-6520	N.A	N.A	2	YES	N.A	YES	YES							
	87833-6521	N.A	N.A	3	YES	N.A	YES	YES							
	87833-2036	N.A	N.A	3	YES	N.A	YES	YES							
22	87833-2219	N.A	N.A	1					24.65	20.00	23.00	22.85	16.00	N.A	2.16
	87833-2220	N.A	N.A	2	YES	N.A	YES	YES							
	87833-2221	N.A	N.A	3											
24	87833-2419	N.A	N.A	1					26.65	22.00	25.00	24.85	18.00	N.A	2.16
	87833-2420	N.A	87833-7020	2	YES	N.A	YES	YES							3.50
	87833-2421	N.A	N.A	3											3.27
	87833-2436	N.A	N.A	3	YES	N.A	YES	YES							
	87833-6920	N.A	N.A	2	YES	N.A	YES	YES							

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 MIN. 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 MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

SEE SHEET 1.2.4.6 EC NO. S2017-0022 DRAWN:HEARLY 2016/07/17 CHKD:SCHEONG 2016/07/27 APPR:KILLIM 2016/07/28 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\nabla=0$ $\nabla=0$ $\nabla=0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	NTS	METRIC	DRAWN BY DATE GMENARLY 2015/09/29 CHECKED BY DATE CGOH 2015/10/30 APPROVED BY DATE KHLIM 2015/11/03	TITLE MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER
		ANGULAR ± 3°				MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87833-0001	SHEET NO. 7 OF 9
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

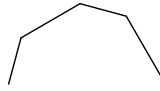
10 9 8 7 6 5 4 3 2 1



10 9 8 7 6 5 4 3 2 1

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					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	YES	N.A	YES	YES							
	87833-2636	N.A	N.A	3	YES	N.A	YES	YES							
28	87833-2819	N.A	N.A	1					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	YES	N.A	YES	YES							
	87833-6620	N.A	N.A	2	YES	N.A	YES	YES							
30	87832-3019	N.A	N.A	1					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	YES	N.A	YES	YES							
	87833-6720	N.A	N.A	2	YES	N.A	YES	YES							
	87833-6721	N.A	N.A	3	YES	N.A	YES	YES							
32	87833-3036	N.A	N.A	3	YES	N.A	YES	YES							3.50
	87833-3219	N.A	N.A	1					34.65	30.00	33.00	32.85	26.00	N.A	2.16
	87833-3220	N.A	N.A	2	YES	N.A	YES	YES							
87833-3221	N.A	N.A	3	YES	N.A	YES	YES								
34	87833-3419	N.A	N.A	1					36.65	32.00	35.00	34.85	28.00	N.A	2.16
	87833-3420	N.A	N.A	2	YES	N.A	YES	YES							
	87833-3421	N.A	N.A	3	YES	N.A	YES	YES							
	87833-5420	N.A	N.A	2	YES	N.A	YES	YES							
	87833-3424	N.A	N.A	2	N.A	N.A	YES	YES							
36	87833-3619	N.A	N.A	1					38.65	34.00	37.00	36.85	30.00	N.A	2.16
	87833-3620	N.A	N.A	2	YES	N.A	YES	YES							
	87833-3621	N.A	N.A	3	YES	N.A	YES	YES							
38	87833-3819	N.A	N.A	1					40.65	36.00	39.00	38.85	32.00	N.A	2.16
	87833-3820	N.A	N.A	2	YES	N.A	YES	YES							
	87833-3821	N.A	N.A	3	YES	N.A	YES	YES							



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 MIN. 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 MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

SEE SHEET 12.4.6 IEC NO. S2017-0022 DRAWN BY: CHYK-SCHONG CHECKED BY: KHLIM APPR: KHLIM DATE: 2016/07/28 REV: A2	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY: GMENARLY DATE: 2015/09/29	TITLE: MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER				
		2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	CHECKED BY: CGOH DATE: 2015/10/30	molex				
		0 PLACE ± --- ± ---	ANGULAR ± 3°	APPROVED BY: KHLIM DATE: 2015/11/03	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87833-0001	SHEET NO. 8 OF 9		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

10 9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

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	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	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	2											
	87833-4021	N.A	N.A	3											
42	87833-4219	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	2											
	87833-4221	N.A	N.A	3											
44	87833-4419	N.A	N.A	1	YES	N.A	YES	YES	46.65	42.00	45.00	44.85	38.00	N.A	2.16
	87833-4420	N.A	N.A	2											
	87833-4421	N.A	N.A	3											
	87833-4424	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-4425	N.A	N.A	3											
46	87833-4619	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	2											
	87833-4621	N.A	N.A	3											
48	87833-4819	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	2											
	87833-4821	N.A	N.A	3											
50	87833-5019	N.A	N.A	1	YES	N.A	YES	YES	52.65	48.00	51.00	50.85	44.00	N.A	0.15
	87833-5020	N.A	N.A	2											
	87833-5021	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 MIN. 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 MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

SEE SHEET 1.2.4.6 EC NO: S2017-0022 DRAWN BY: GEMENARLY 2016/07/17 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																		
	$\nabla=0$ $\nabla=0$ $\nabla=0$	<table border="1"> <tr><th colspan="2">mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>2 PLACES</td><td>± 0.20</td><td>± ---</td></tr> <tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr> <tr><td>0 PLACE</td><td>± ---</td><td>± ---</td></tr> </table>	mm		INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	0 PLACE	± ---	± ---	MM ONLY	NTS	METRIC	
	mm		INCH																					
	4 PLACES	± ---	± ---																					
3 PLACES	± ---	± ---																						
2 PLACES	± 0.20	± ---																						
1 PLACE	± ---	± ---																						
0 PLACE	± ---	± ---																						
	ANGULAR ± 3°	DRAWN BY: GEMENARLY 2015/09/29	DATE: 2015/09/29	TITLE: MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER																				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY: CGOH 2015/10/30	DATE: 2015/10/30																					
		APPROVED BY: KHLIM 2015/11/03	DATE: 2015/11/03	DOCUMENT NO. SD-87833-0001																				
		MATERIAL NO. SEE TABLE	SIZE: A3	SHEET NO. 9 OF 9																				

9 8 7 6 5 4 3 2 1