

## Excellent Integrated System Limited

Stocking Distributor

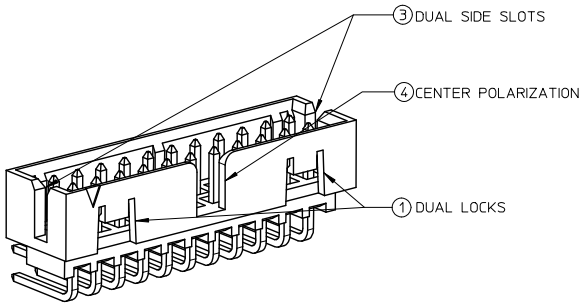
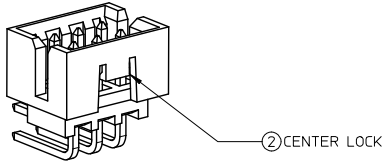
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0878332219](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

FEATURES SELECTION GUIDE



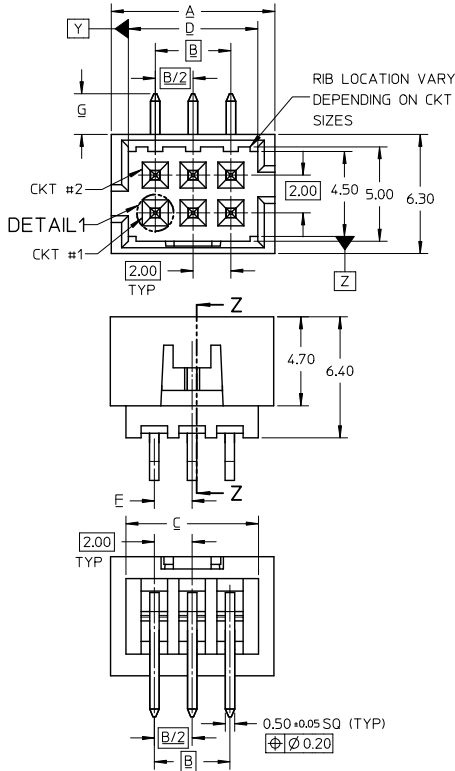
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		3 DUAL SIDE SLOTS	4 CENTER POLARIZATION	SHEET NO
	1 DUAL	2 CENTER			
4 - 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

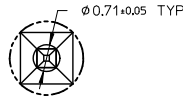
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

<b>ADD PK TABLE</b> EC NO: S2017-0022 DRAWN BY: GEMENARLY 2016/07/12 CHECKED BY: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$ $\nabla=0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	NTS	METRIC	MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER
	DESCRIPTION	ANGULAR ± 3°	DRAWN BY: GEMENARLY 2015/09/29	DATE	TITLE	<b>molex</b> DOCUMENT NO. SD-87833-0001 SHEET NO. 1 OF 9
	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY: CGOH 2015/10/30	DATE		

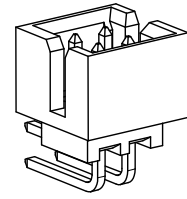
10 9 8 7 6 5 4 3 2 1



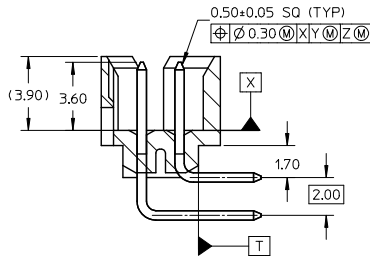
4 TO 6 CIRCUITS



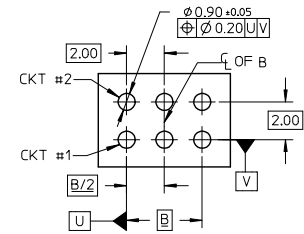
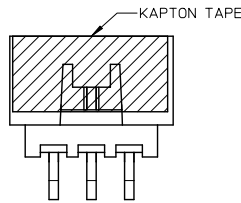
DETAIL 1



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																													
	$\nabla=0$ $\nabla=0$ $\nabla=0$	<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <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> </tbody> </table>		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±0.20	±---	1 PLACE	±---	±---	0 PLACE	±---	±---	<table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>DATE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>GMENARLY</td> <td>2015/09/29</td> <td rowspan="3">MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER</td> </tr> <tr> <td>CHEONG</td> <td>2015/10/30</td> </tr> <tr> <td>KHL IM</td> <td>2015/11/03</td> </tr> </tbody> </table>	DRAWN BY	DATE	TITLE	GMENARLY	2015/09/29	MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER	CHEONG	2015/10/30	KHL IM	2015/11/03	MM ONLY	NTS	METRIC	
		mm	INCH																																
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KHL IM	2015/11/03																																		
ANGULAR ± 3° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	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					6.65	2.00	5.00	4.85	N.A	N.A	2.16
	87833-0420	N.A	N.A	2	N.A	N.A	YES	N.A							
	87833-0421	N.A	N.A	3											
	87833-5920	N.A	N.A	2	N.A	N.A	YES	N.A							
	87833-0431	87833-0441	87833-0451	2											
	87833-0432	N.A	N.A	3	N.A	YES	YES	N.A							
6	87833-0619	N.A	N.A	1					8.65	4.00	7.00	6.85	N.A	N.A	2.16
	87833-0620	N.A	N.A	2	N.A	N.A	YES	N.A							
	87833-0621	N.A	N.A	3											
	87833-6420	N.A	N.A	2	N.A	N.A	YES	N.A							
	87833-0631	87833-0641	87833-0651	2											
	87833-0632	N.A	N.A	3	N.A	YES	YES	N.A							
	87833-0661	N.A	N.A	2	N.A	YES	YES	N.A							
	87833-0624	N.A	N.A	2											
	87833-0625	N.A	N.A	3	N.A	N.A	YES	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.

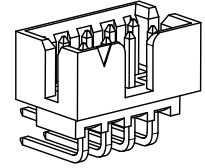
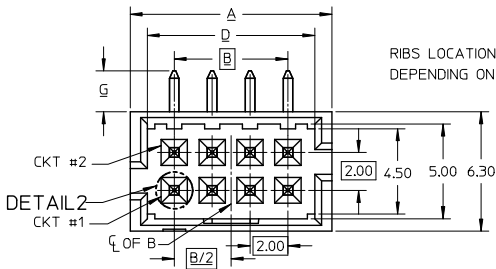
SEE SHEET 1.2.4.6 EC. NO. S2017-0022 DRAWN: MENARLY 2016/07/17 CHECKED: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\sqrt{\text{---}}=0$ $\sqrt{\text{---}}=0$ $\sqrt{\text{---}}=0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	NTS	METRIC	
		ANGULAR ± 3°	DRAWN BY	DATE	TITLE	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	GMENARLY	2015/09/29	MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER	
			CHECKED BY	DATE	<b>molex</b>	
		CGOH	2015/10/30	SD-87833-0001		
		APPROVED BY	DATE	SHEET NO.		
		KHLIM	2015/11/03	3 OF 9		
		MATERIAL NO.	SEE TABLE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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Rev. G 2012/01/11

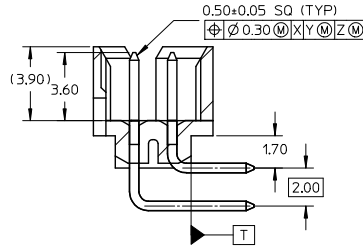
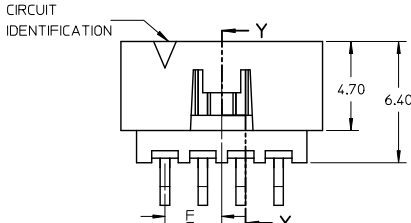
9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

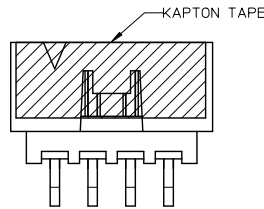
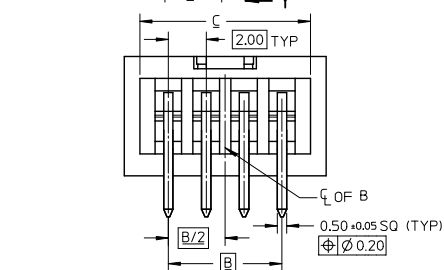
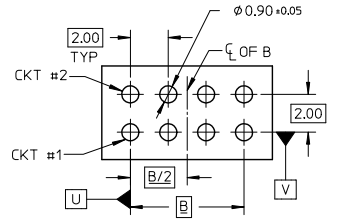
8 TO 12 CIRCUITS



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: MENARLY 2016/07/17 CHKD: SCHEONG 2016/07/27 APPR: KILLIM 2016/07/28 A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	
	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY DATE GMENARLY 2015/09/29	TITLE	MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER	
	REV	SIZE A3	APPROVED BY DATE KHL IM 2015/11/03	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87833-0001	SHEET NO. 4 OF 9

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								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								N.A	3.00	3.18				
87833-0824	N.A	N.A	2						N.A	2.92												
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								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								N.A	4.00	1.70				
	87833-1024	N.A	N.A	2													N.A	2.92				
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								N.A	N.A	3.18				
	87833-1231	N.A	N.A	2													N.A	2.16				
	87833-1232	N.A	N.A	3																		
	87833-1224	N.A	N.A	2																		
87833-1225	N.A	N.A	3																			

PLATING OPTIONS:

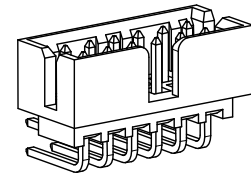
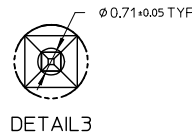
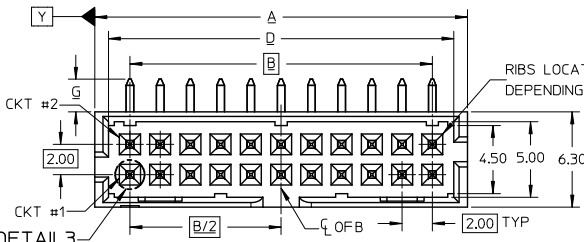
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SEE SHEET 12.4.6 IEC NO: S2017-0022 DRAWN BY: GEMENARLY 2016/07/12 CHECKED BY: CHIKO-SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
				MM ONLY		NTS	METRIC	
				DRAWN BY DATE		TITLE		
				CHECKED BY DATE		APPROVED BY DATE		
		ANGULAR ± 3°		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 5 OF 9
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87833-0001		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

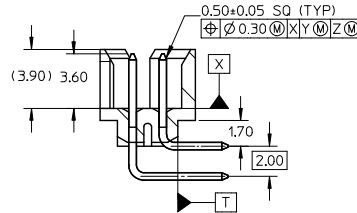
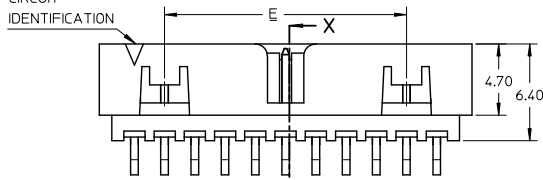
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10 9 8 7 6 5 4 3 2 1

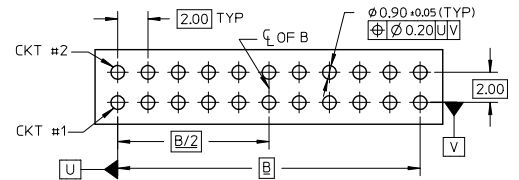
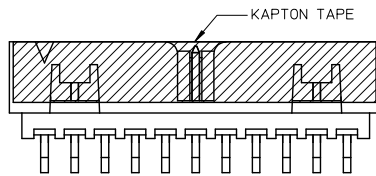
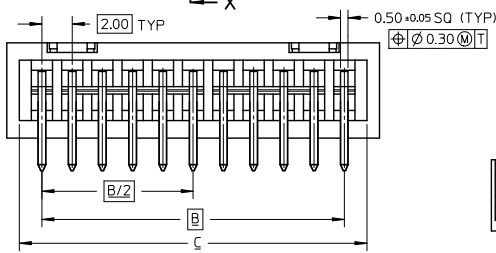
14 TO 50 CIRCUITS



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
- 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)
- 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 $\nabla=0$ $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
			mm	INCH	MM ONLY	NTS	METRIC			
		4 PLACES	±---	±---	DRAWN BY	DATE	TITLE			
		3 PLACES	±---	±---	GMENARLY	2015/09/29	MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER			
	2 PLACES	±0.20	±---	CHECKED BY	DATE	<b>molex</b> DOCUMENT NO. SD-87833-0001 SHEET NO. 6 OF 9				
	1 PLACE	±---	±---	CGOH	2015/10/30					
	0 PLACE	±---	±---	APPROVED BY	DATE					
				KHLIM	2015/11/03					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 3°		MATERIAL NO.		SEE TABLE				
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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							
	87833-1421	N.A	N.A	3											
	87833-5320	N.A	N.A	2	YES	N.A	YES	YES							
	87833-5321	N.A	N.A	3											
	87833-1436	N.A	N.A	3	YES	N.A	YES	YES							3.50
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							
	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							
	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							
	87833-2021	N.A	N.A	3											
	87833-6520	N.A	N.A	2	YES	N.A	YES	YES							
	87833-6521	N.A	N.A	3											
	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							
	87833-2421	N.A	N.A	3											
	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	

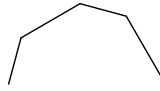
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10 9 8 7 6 5 4 3 2 1

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	YES	N.A	YES	YES								
	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					30.65	26.00	29.00	28.85	22.00	N.A	2.16	
	87833-2820	N.A	N.A	2	YES	N.A	YES	YES								
	87833-2821	N.A	N.A	3												
	87833-6620	N.A	N.A	2	YES	N.A	YES	YES								3.18
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												
	87833-6721	N.A	N.A	3	YES	N.A	YES	YES								3.18
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													
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												
	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					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												
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												



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: GEMENARLY 2016/07/27 CHECKED BY: CHYK-SCHONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) 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 DRAWN BY: GEMENARLY DATE: 2015/09/29 CHECKED BY: CGOH DATE: 2015/10/30 APPROVED BY: KHLIM DATE: 2015/11/03	SCALE: NTS DESIGN UNITS: METRIC THIRD ANGLE PROJECTION	TITLE: MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER <b>molex</b> MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87833-0001 SHEET NO. 8 OF 9 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

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 DESCRIPTION	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 CHECKED BY: CGOH 2015/10/30 APPROVED BY: KHLIM 2015/11/03	TITLE	MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER																				
A2	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87833-0001																					

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