

Excellent Integrated System Limited

Stocking Distributor

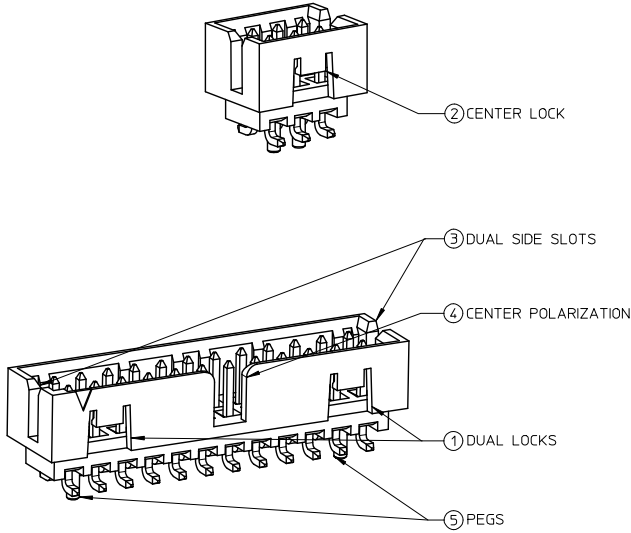
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)
[0878320816](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

FEATURES SELECTION GUIDE

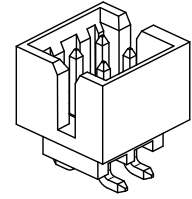
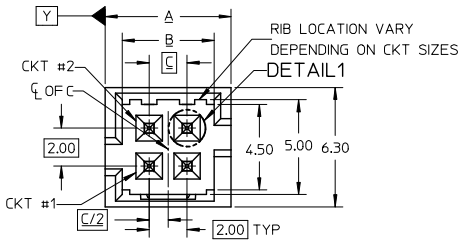


CIRCUIT SIZE	FEATURES					SHEET NO
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	⑤ PEGS	
	① DUAL	② CENTER				
4	N.A	N.A	YES	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	YES	
	N.A	N.A	YES	YES	N.A	
	N.A	YES	YES	N.A	N.A	
	N.A	YES	YES	N.A	YES	
8 TO 12	N.A	N.A	YES	YES	YES	6 - 7
	N.A	N.A	YES	YES	N.A	
	N.A	YES	YES	N.A	YES	
14 TO 50	YES	N.A	YES	YES	N.A	8 - 11
	YES	N.A	YES	YES	YES	

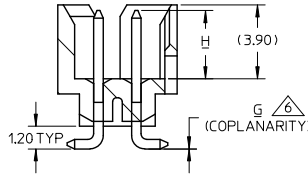
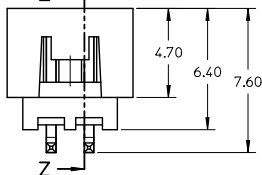
SEE SHEET 2.3.4.6.8812 IEC NO: S2017-0022 DRAWN BY: GMENARLY 2016/03/22 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																		
	$\nabla=0$ $\nabla=0$ $\nabla=0$	<table border="1"> <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	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex
	mm		INCH																					
	4 PLACES	±---	±---																					
3 PLACES	±---	±---																						
2 PLACES	±0.20	±---																						
1 PLACE	±---	±---																						
0 PLACE	±---	±---																						
DESCRIPTION	ANGULAR ± 3°	SEE TABLE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.																			
REV	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																					

10 9 8 7 6 5 4 3 2 1

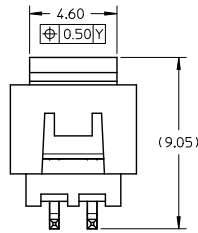
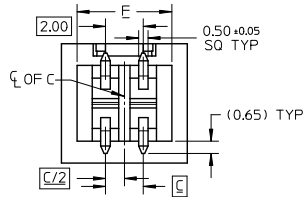
4 CIRCUITS



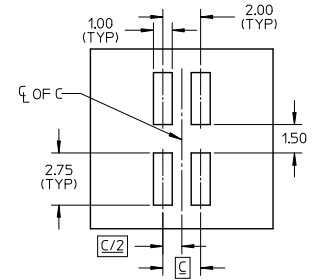
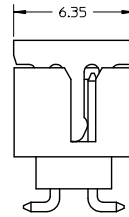
ISO VIEW OF HEADER WITH ONLY DUAL SLOTS



SECTION Z-Z



VIEW FOR HEADER WITH CAP



RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING & CAP: 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 12
 - 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)
- △ COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
- BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
 - TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			mm	INCH	MM ONLY	DATE				
A2	EDIT NOTE 4 EC NO. S2017-0022 DRAWN: MARY 2016/03/22 CHKD: SICHONG 2016/07/27 APPR: KILLIM 2016/07/28	$\nabla = 0$ $\nabla = 0$ $\nabla = 0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	± --- ± --- ± --- ± --- ± --- ± --- ± --- ± ---	DRAWN BY: GMENARLY CHECKED BY: CGOH APPROVED BY: KHLIM DATE: 2015/05/22 DATE: 2015/09/21 DATE: 2015/09/22	TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex MATERIAL NO.: SEE TABLE DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DOCUMENT NO.: SD-87832-0001 SHEET NO.: 2 OF 12	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

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	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION							
						DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H
4	87832-0460	87832-0462	87832-5162	1	1	N.A	N.A	YES	N.A	N.A	6.65	4.85	2.00	N.A	N.A	5.00	0.10	3.60±0.20
	87832-0420	87832-0422	87832-5122	1	2													
	87832-0421	87832-0423	87832-5123	1	3													
	87832-0470	87832-0472	87832-5172	1	4	N.A	YES	YES	N.A	N.A							0.10	
	87832-0410	87832-0408	87832-0406	1	2													
			87832-5106	2	2													
87832-0411	87832-0409	87832-0407	1	3	N.A	YES	YES	N.A	N.A	0.10								
87832-0404	N.A	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 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.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

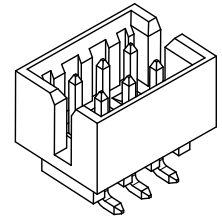
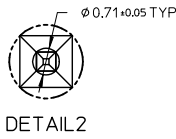
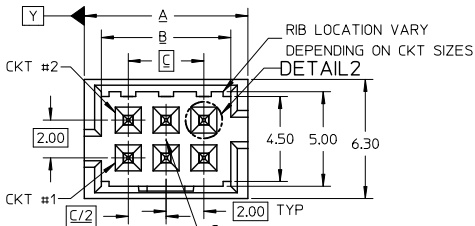
ADD 87832-5106 EC NO: S2017-0022 DRAWN: MENARLY 2016/03/22 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28	QUALITY SYMBOLS $\sqrt{\text{A}}=0$ $\sqrt{\text{B}}=0$ $\sqrt{\text{C}}=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
			mm	INCH	MM ONLY		NTS	METRIC		
		4 PLACES	±---	±---	DRAWN BY	DATE	TITLE			
		3 PLACES	±---	±---	GMENARLY	2015/05/22	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER			
2 PLACES	±0.20	±---	CHECKED BY	DATE						
1 PLACE	±---	±---	CGOH	2015/09/21						
0 PLACE	±---	±---	APPROVED BY	DATE	DOCUMENT NO.		SHEET NO.			
ANGULAR ± 3°			MATERIAL NO.		SD-87832-0001		3 OF 12			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			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

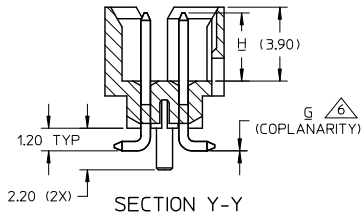
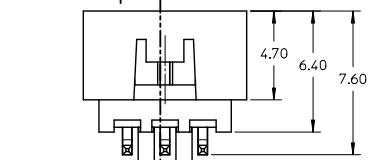
9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

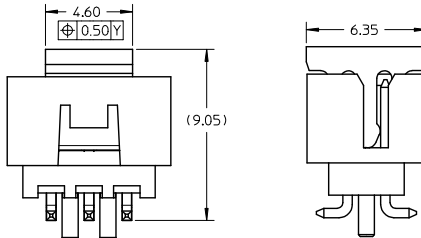
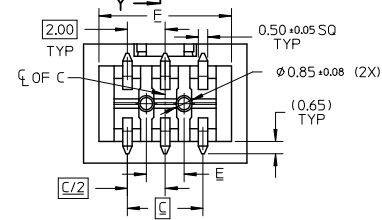
6 CIRCUITS



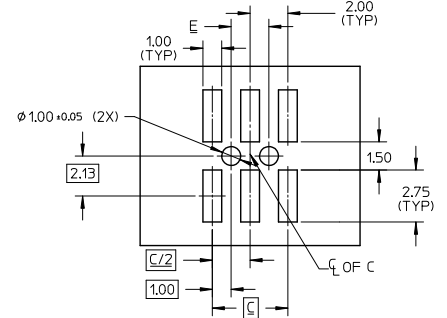
VIEW FOR HEADER WITH ONLY DUAL SLOTS



SECTION Y-Y



VIEW FOR HEADER WITH CAP



RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING & CAP: 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 12
 - 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)
- △ COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
- BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
 - TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

EDIT NOTE 4 EC NO: S2017-0022 DRAWN BY: GMENARLY 2016/03/22 CHECKED BY: CHEYD-SCHONG 2016/07/27 APPR: KHL IM 2016/07/28 REV: A2	QUALITY SYMBOLS √=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY	DATE	NTS		METRIC
		4 PLACES ± --- ± ---			GMENARLY	2015/05/22			
		3 PLACES ± --- ± ---			CHEKED BY	DATE			
			2 PLACES ± 0.20 ± ---						
			1 PLACE ± --- ± ---						
			0 PLACE ± --- ± ---						
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87832-0001		
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

MILLIGRID
2MM PITCH, SMT
VERTICAL SHROUDED HEADER
molex



10 9 8 7 6 5 4 3 2 1

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	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION														
						DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H							
6	87832-0660	87832-0662	87832-5262	1	1						8.65	6.85	4.00	N.A	2.00	7.00	0.10	3.60±0.20							
	87832-0620	87832-0622	87832-5222	1	2	N.A	N.A	YES	N.A	YES															
	87832-0621	87832-0623	87832-5223	1	3																				
	87832-0670	87832-0672	87832-5272	1	4																				
	87832-0612	87832-0616	87832-0614	1	2	N.A	N.A	YES	N.A	N.A														0.10	3.60±0.20
	87832-0613	87832-0617	87832-0615	1	3	N.A	N.A	YES	YES	N.A														0.10	3.60±0.15
	87832-0624	87832-0626	87832-0628	1	2	N.A	YES	YES	N.A	N.A														0.10	3.60±0.20
	87832-0625	87832-0627	87832-0629	1	3																			0.10	3.60±0.20
	87832-0610	87832-0608	87832-0606	1	2	N.A	YES	YES	N.A	YES														0.10	3.60±0.20
87832-0611	87832-0609	87832-0607	1	3													0.10	3.60±0.20							
87832-0604	N.A	N.A	N.A	2	N.A	YES	YES	N.A	YES								0.10	3.60±0.20							

PLATING OPTIONS:

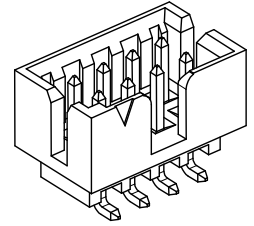
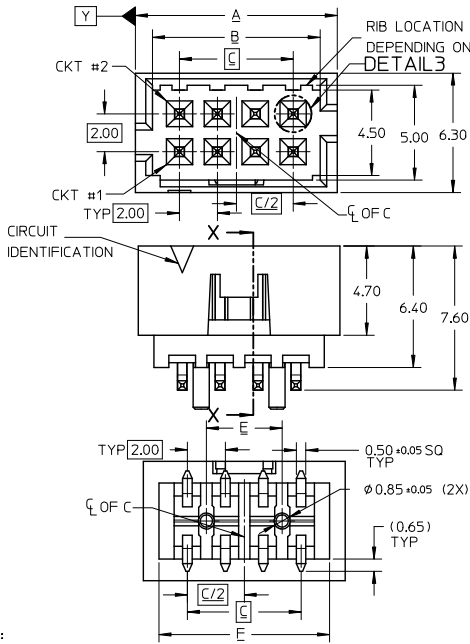
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
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- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

SEE SHEET 2.3.4.6.8812 EC NO: S2017-0022 DRAWN BY: 2016/03/27 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
	$\sqrt{\text{A}}=0$ $\sqrt{\text{B}}=0$ $\sqrt{\text{C}}=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: GMENARLY 2015/05/22 CHECKED BY: CGOH 2015/09/21 APPROVED BY: KHLIM 2015/09/22 MATERIAL NO. SEE TABLE SIZE: A3			TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER
						DOCUMENT NO. SD-87832-0001 SHEET NO. 5 OF 12 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

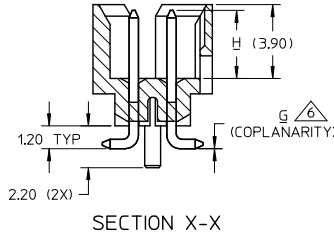
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10 9 8 7 6 5 4 3 2 1

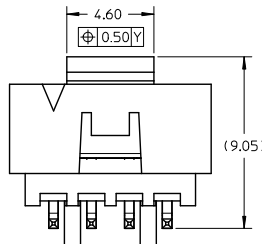
8 TO 12 CIRCUITS



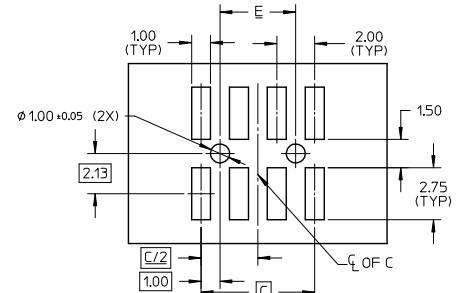
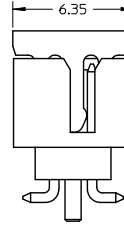
ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



SECTION X-X



VIEW FOR HEADER WITH CAP



RECOMMENDED PCB LAYOUT

- NOTES:
1. MATERIALS:
HOUSING & CAP: 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 12
 5. 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)
6. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
7. BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
8. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

EDIT NOTE 4 EC NO: S2017-0022 DRAWN BY: CHYK-SHEONG CHKD: KILLIM APPR: KILLIM 2016/03/27 2016/07/27 2016/07/28	QUALITY SYMBOLS √=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
		mm	INCH	MM ONLY	NTS	METRIC	DRAWN BY: G MENARLY DATE: 2015/05/22 CHECKED BY: CGOH DATE: 2015/09/21 APPROVED BY: KHL IM DATE: 2015/09/22		TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex DOCUMENT NO. SD-87832-0001 SHEET NO. 6 OF 12	
		4 PLACES ±---	±---	SEE TABLE	MATERIAL NO.		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		3 PLACES ±---	±---							
2 PLACES ±0.20	±---									
1 PLACE ±---	±---									
0 PLACE ±---	±---									
ANGULAR ± 3°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

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 CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION							
						DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H
8	87832-0860	87832-0862	87832-5362	1	1						10.65	8.85	6.00	N.A	4.00	9.00	0.10	3.60±0.20
	87832-0820	87832-0822	87832-5322	1	2													
	87832-0821	87832-0823	87832-5323	1	3	N.A	N.A	YES	YES	YES								
	87832-0870	87832-0872	87832-5372	1	4													
	87832-0812	87832-0816	87832-0814	1	2	N.A	N.A	YES	YES	N.A								
	87832-0824	87832-0826	87832-0828	1	2	N.A	YES	YES	N.A	N.A								
	87832-0825	87832-0827	87832-0829	1	3													
	87832-0810	87832-0808	87832-0806	1	2	N.A	YES	YES	N.A	YES								
87832-0811	87832-0809	87832-0807	1	3														
87832-0804	N.A	N.A	N.A	2	N.A	YES	YES	N.A	YES									
10	87832-1060	87832-1062	87832-5462	1	1						12.65	10.85	8.00	N.A	6.00	11.00	0.10	3.60±0.20
	87832-1020	87832-1022	87832-5422	1	2													
	87832-1021	87832-1023	87832-5423	1	3	N.A	N.A	YES	YES	YES								
	87832-1070	87832-1072	87832-5472	1	4													
	87832-1012	87832-1016	87832-1014	1	2	N.A	N.A	YES	YES	N.A								
	87832-1024	87832-1026	87832-1028	1	2	N.A	YES	YES	N.A	N.A								
	87832-1025	87832-1027	87832-1029	1	3													
	87832-1010	87832-1008	87832-1006	1	2	N.A	YES	YES	N.A	YES								
87832-1011	87832-1009	87832-1007	1	3														
87832-1004	N.A	N.A	N.A	2	N.A	YES	YES	N.A	YES									
12	87832-1260	87832-1262	87832-5562	1	1						14.65	12.85	10.00	N.A	8.00	13.00	0.10	3.60±0.20
	87832-1220	87832-1222	87832-5522	1	2													
	87832-1221	87832-1223	87832-5523	1	3	N.A	N.A	YES	YES	YES								
	87832-1270	87832-1272	87832-5572	1	4													
	87832-1224	87832-1226	87832-1228	1	2	N.A	YES	YES	N.A	N.A								
	87832-1225	87832-1227	87832-1229	1	3													
	87832-1210	87832-1208	87832-1206	1	2	N.A	YES	YES	N.A	YES								
	87832-1211	87832-1209	87832-1207	1	3													
87832-1204	N.A	N.A	N.A	2	N.A	YES	YES	N.A	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.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

SEE SHEET 2.3.4.6.88.12	2016/03/22
EC. NO. S2017-0022	2016/07/27
DRAWN BY: GMENARLY	2016/07/27
CHKD: SCHEONG	2016/07/28
APPR: KHLIM	2016/07/28

QUALITY SYMBOLS	DESCRIPTION
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$\nabla=0$	
$\nabla=0$	

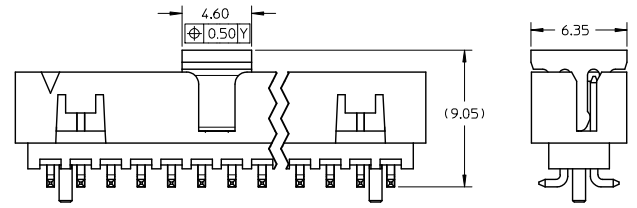
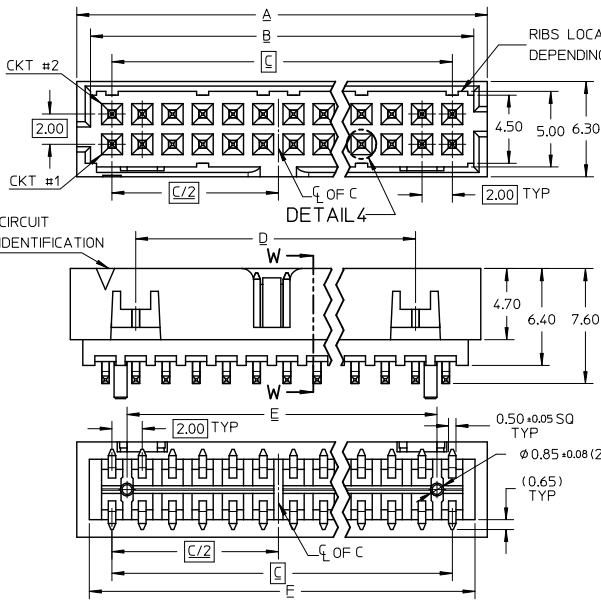
GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm INCH
4 PLACES	± --- ± ---
3 PLACES	± --- ± ---
2 PLACES	± 0.20 ± ---
1 PLACE	± --- ± ---
0 PLACE	± --- ± ---
ANGULAR ± 3°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	
DRAWN BY	DATE	TITLE		
GMENARLY	2015/05/22	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER		
CHECKED BY	DATE			
CGOH	2015/09/21			
APPROVED BY	DATE			
KHLIM	2015/09/22			
MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
SEE TABLE	SD-87832-0001	7 OF 12		

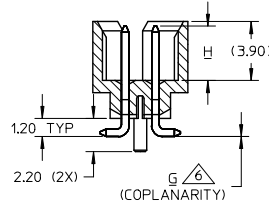
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ib_frame_A3_P_AM_T Rev. G 2012/01/11 9 8 7 6 5 4 3 2 1

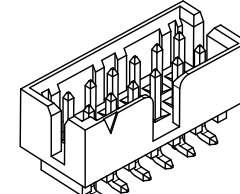
14 TO 50 CIRCUITS



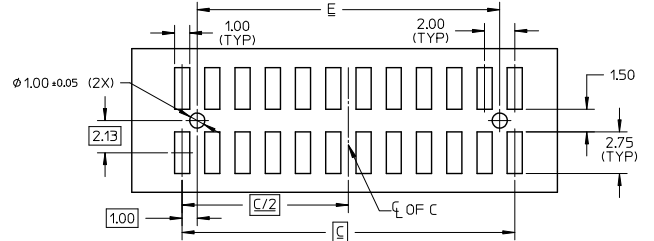
VIEW FOR HEADER WITH CAP



SECTION W-W



ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING & CAP: 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 12
- 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)
- COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
- BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
- TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

EDIT NOTE 4 EC NO: S2017-0022 DRAWN BY: Y CHKD: SCHEONG APPR: KHLIM 2016/03/22 2016/07/27 2016/07/28	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 CHECKED BY CGOH APPROVED BY KHLIM DATE 2015/05/22 DATE 2015/09/21 DATE 2015/09/22	TITLE MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87832-0001	SHEET NO. 8 OF 12	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

14 TO 24 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	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION							
						DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H
14	87832-1460	87832-1462	87832-5662	1	1	YES	N.A	YES	YES	YES	16.65	14.85	12.00	8.00	10.00	15.00	0.15	3.60±0.20
	87832-1420	87832-1422	87832-5622	1	2													
	87832-1421	87832-1423	87832-5623	1	3													
	87832-1470	87832-1472	87832-5672	1	4													
	87832-1412	87832-1416	87832-1414	1	2													
16	87832-1660	87832-1662	87832-5762	1	1	YES	N.A	YES	YES	YES	18.65	16.85	14.00	10.00	12.00	17.00	0.15	3.60±0.20
	87832-1620	87832-1622	87832-5722	1	2													
	87832-1621	87832-1623	87832-5723	1	3													
	87832-1670	87832-1672	87832-5772	1	4													
	87832-1612	87832-1616	87832-1614	1	2													
18	87832-1860	87832-1862	87832-5862	1	1	YES	N.A	YES	YES	YES	20.65	18.85	16.00	12.00	14.00	19.00	0.15	3.60±0.20
	87832-1820	87832-1822	87832-5822	1	2													
	87832-1821	87832-1823	87832-5823	1	3													
	87832-1870	87832-1872	87832-5872	1	4													
	87832-1812	87832-1816	87832-1814	3	2													
87832-1813	87832-1817	87832-1815	3	3	YES	N.A	YES	YES	N.A	0.15	3.60±0.20							
20	87832-2060	87832-2062	87832-5962	1	1	YES	N.A	YES	YES	YES	22.65	20.85	18.00	14.00	16.00	21.00	0.15	3.60±0.20
	87832-2020	87832-2022	87832-5922	1	2													
	87832-2021	87832-2023	87832-5923	1	3													
	87832-2070	87832-2072	87832-5972	1	4													
	87832-2012	87832-2016	87832-2014	1	2													
22	87832-2260	87832-2262	87832-6062	1	1	YES	N.A	YES	YES	YES	24.65	22.85	20.00	16.00	18.00	23.00	0.15	3.60±0.20
	87832-2220	87832-2222	87832-6022	1	2													
	87832-2221	87832-2223	87832-6023	1	3													
	87832-2270	87832-2272	87832-6072	1	4													
24	87832-2460	87832-2462	87832-6162	1	1	YES	N.A	YES	YES	YES	26.65	24.85	22.00	18.00	20.00	25.00	0.15	3.60±0.20
	87832-2420	87832-2422	87832-6122	1	2													
	87832-2421	87832-2423	87832-6123	1	3													
	87832-2470	87832-2472	87832-6172	1	4													
	87832-2412	87832-2416	87832-2414	1	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 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.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

SEE SHEET 2.3.4.6.8812 EC. NO. S2017-0022 DRAWN: GEMARLY 2016/03/27 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28	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 DATE GMENARLY 2015/05/22 CHECKED BY DATE CGOH 2015/09/21 APPROVED BY DATE KHLIM 2015/09/22	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex	MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87832-0001 SHEET NO. 9 OF 12

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 CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION							
						DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H
26	87832-2660	87832-2662	87832-6262	1	1	YES	N.A	YES	YES	YES	28.65	26.85	24.00	20.00	22.00	27.00	0.15	3.60±0.20
	87832-2620	87832-2622	87832-6222	1	2													
	87832-2621	87832-2623	87832-6223	1	3													
	87832-2670	87832-2672	87832-6272	1	4													
	87832-2612	87832-2616	N.A	N.A	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20
28	87832-2860	87832-2862	87832-6362	1	1	YES	N.A	YES	YES	YES	30.65	28.85	26.00	22.00	24.00	29.00	0.15	3.60±0.20
	87832-2820	87832-2822	87832-6322	1	2													
	87832-2821	87832-2823	87832-6323	1	3													
	87832-2870	87832-2872	87832-6372	1	4													
30	87832-3060	87832-3062	87832-6462	1	1	YES	N.A	YES	YES	YES	32.65	30.85	28.00	24.00	26.00	31.00	0.15	3.60±0.20
	87832-3020	87832-3022	87832-6422	1	2													
	87832-3021	87832-3023	87832-6423	1	3													
	87832-3070	87832-3072	87832-6472	1	4													
	87832-3012	87832-3016	87832-3014	3	2													
32	87832-3260	87832-3262	87832-6562	1	1	YES	N.A	YES	YES	YES	34.65	32.85	30.00	26.00	28.00	33.00	0.15	3.60±0.20
	87832-3220	87832-3222	87832-6522	1	2													
	87832-3221	87832-3223	87832-6523	1	3													
	87832-3270	87832-3272	87832-6572	1	4													
34	87832-3460	87832-3462	87832-6662	1	1	YES	N.A	YES	YES	YES	36.65	34.85	32.00	28.00	30.00	35.00	0.15	3.60±0.20
	87832-3420	87832-3422	87832-6622	1	2													
	87832-3421	87832-3423	87832-6623	1	3													
	87832-3470	87832-3472	87832-6672	1	4													
	87832-3412	87832-3416	87832-3414	3	2													
36	87832-3660	87832-3662	N.A	N.A	1	YES	N.A	YES	YES	YES	38.65	36.85	34.00	30.00	32.00	37.00	0.15	3.60±0.20
	87832-3620	87832-3622	N.A	N.A	2													
	87832-3621	87832-3623	N.A	N.A	3													
	87832-3670	87832-3672	N.A	N.A	4													
38	87832-3860	87832-3862	N.A	N.A	1	YES	N.A	YES	YES	YES	40.65	38.85	36.00	32.00	34.00	39.00	0.15	3.60±0.20
	87832-3820	87832-3822	N.A	N.A	2													
	87832-3821	87832-3823	N.A	N.A	3													
	87832-3870	87832-3872	N.A	N.A	4													

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.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

SEE SHEET 2.3.4.6.8812
 EC NO: S2017-0022
 DRAWN BY: GEMENARLY 2016/03/22
 CHECKED BY: CHYK-SCHONG 2016/07/27
 APPR: KHLIM 2016/07/28

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=0	
▽=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		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	
DRAWN BY	DATE	TITLE		
GEMENARLY	2015/05/22	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER		
CHECKED BY	DATE	molex		
CGOH	2015/09/21	DOCUMENT NO. SD-87832-0001		
APPROVED BY	DATE	SHEET NO. 10 OF 12		
KHLIM	2015/09/22	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

40 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	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION							
						DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H
40	87832-4060	87832-4062	87832-6962	1	1	YES	N.A	YES	YES	YES	42.65	40.85	38.00	34.00	36.00	41.00	0.15	3.60±0.20
	87832-4020	87832-4022	87832-6922	1	2													
	87832-4021	87832-4023	87832-6923	1	3													
	87832-4070	87832-4072	87832-6972	1	4													
	87832-4012	87832-4016	N.A	N.A	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20
42	87832-4260	87832-4262	N.A	N.A	1	YES	N.A	YES	YES	YES	44.65	42.85	40.00	36.00	38.00	43.00	0.15	3.60±0.20
	87832-4220	87832-4222	N.A	N.A	2													
	87832-4221	87832-4223	N.A	N.A	3													
	87832-4270	87832-4272	N.A	N.A	4													
44	87832-4460	87832-4462	87832-7162	1	1	YES	N.A	YES	YES	YES	46.65	44.85	42.00	38.00	40.00	45.00	0.15	3.60±0.20
	87832-4420	87832-4422	87832-7122	1	2													
	87832-4421	87832-4423	87832-7123	1	3													
	87832-4470	87832-4472	87832-7172	1	4													
	87832-4413	87832-4417	87832-4415	3	3	YES	N.A	YES	YES	N.A							0.15	3.60±0.20
46	87832-4660	87832-4662	87832-7262	1	1	YES	N.A	YES	YES	YES	48.65	46.85	44.00	40.00	42.00	47.00	0.15	3.60±0.20
	87832-4620	87832-4622	87832-7222	1	2													
	87832-4621	87832-4623	N.A	N.A	3													
	87832-4670	87832-4672	87832-7272	1	4													
48	87832-4860	87832-4862	N.A	N.A	1	YES	N.A	YES	YES	YES	50.65	48.85	46.00	42.00	44.00	49.00	0.15	3.60±0.20
	87832-4820	87832-4822	N.A	N.A	2													
	87832-4821	87832-4823	N.A	N.A	3													
	87832-4870	87832-4872	N.A	N.A	4													
50	87832-5060	87832-5062	87832-7462	1	1	YES	N.A	YES	YES	YES	52.65	50.85	48.00	44.00	46.00	51.00	0.15	3.60±0.20
	87832-5020	87832-5022	87832-7422	1	2													
	87832-5021	87832-5023	87832-7423	1	3													
	87832-5070	87832-5072	87832-7472	1	4													
	87832-5012	87832-5016	N.A	N.A	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20

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.
- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

SEE SHEET 2.3.4.6.8812	EC. NO. S2017-0022	2016/03/27
DRAWN BY	GMENARLY	2016/07/27
CHKD. SCHEDG	CGOH	2016/07/28
APPR. KILLIM		

QUALITY SYMBOLS	DESCRIPTION
∇=0	
∇=0	
∇=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		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	⊙
DRAWN BY	DATE	TITLE		
GMENARLY	2015/05/22	MILLIGRID		
CHECKED BY	DATE	2MM PITCH, SMT		
CGOH	2015/09/21	VERTICAL SHROUDED HEADER		
APPROVED BY	DATE	molex		
KHLIM	2015/09/22	SD-87832-0001		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
SEE TABLE	SD-87832-0001	11 OF 12		

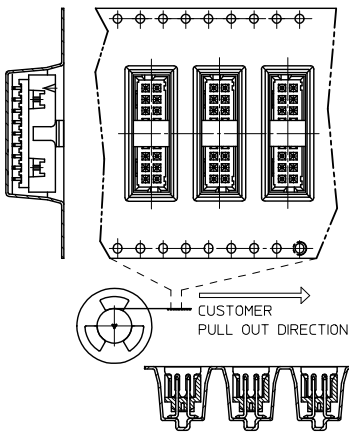
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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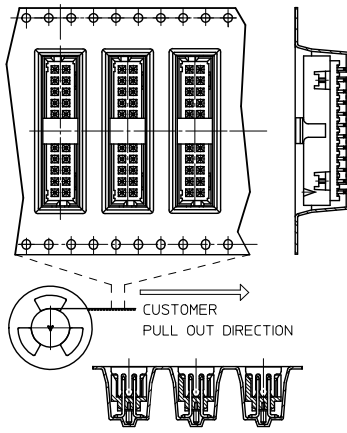
10 9 8 7 6 5 4 3 2 1

PACKAGING OPTIONS

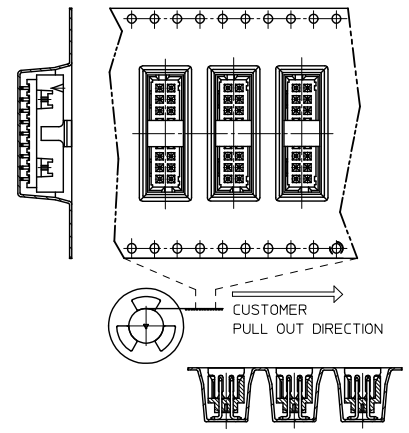
OPTION 1



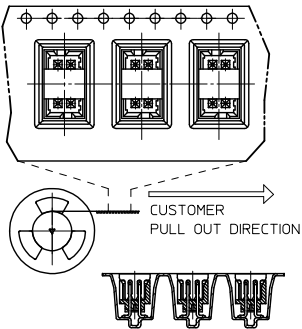
OPTION 2



OPTION 3



VIEW FOR 1 SIDE PILOT HOLE



PACKAGING SPECIFICATION TABLE

TAPE AND REEL PACKAGING	PK-87832-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87832-0411 87832-0824 87832-1072 87832-1412	PK-87831-002

EMBOSSED TAPE & REEL POCKET DESCRIPTIONS

OPTIONS	CENTER POLARIZATION OPTIONS		PEG OPTIONS		PILOT HOLE OPTIONS	
	ON THE LEFT	ON THE RIGHT	WITH PEG	WITHOUT PEG	2 SIDES	1 SIDE
1	YES	N.A	YES	N.A	CKT 12-50	CKT 4-10
2	N.A	YES	YES	N.A	CKT 12-50	CKT 4-10
3	YES	N.A	N.A	YES	CKT 12-50	CKT 4-10

ADD PK TABLE EC NO: S2017-0022 DRAWN: MENARLY 2016/03/22 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV	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	M L THIRD ANGLE PROJECTION
	DRAWN BY: GMENARLY CHECKED BY: CGOH APPROVED BY: KHLIM	DATE: 2015/05/22 DATE: 2015/09/21 DATE: 2015/09/22	DRAWN BY: GMENARLY CHECKED BY: CGOH APPROVED BY: KHLIM	DATE: 2015/05/22 DATE: 2015/09/21 DATE: 2015/09/22	TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex	DOCUMENT NO. SD-87832-0001 SHEET NO. 12 OF 12
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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