

## Excellent Integrated System Limited

Stocking Distributor

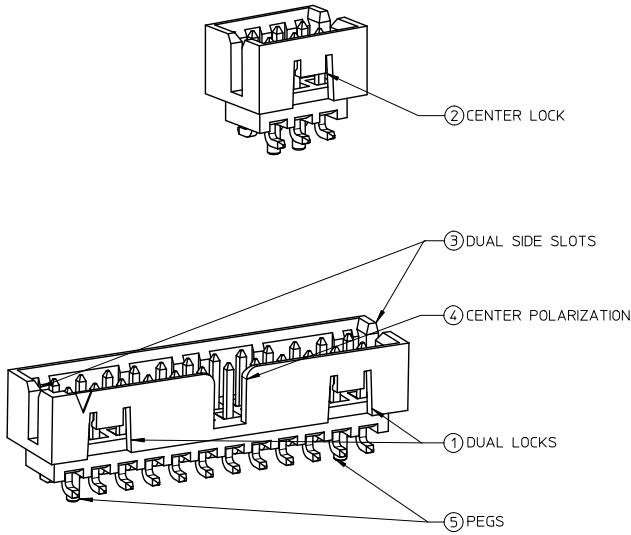
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0878321021](#)

For any questions, you can email us directly:

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

FEATURES SELECTION GUIDE

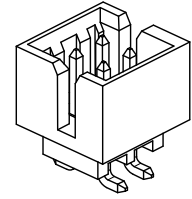
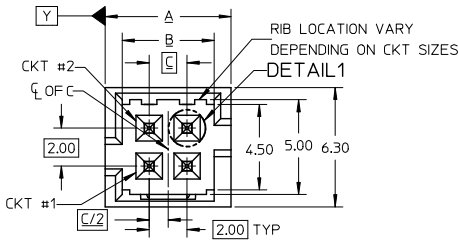


CIRCUIT SIZE	FEATURES					SHEET NO
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	⑤ PEGS	
	① DUAL	② CENTER				
4	N.A	N.A	YES	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	YES	
	N.A	N.A	YES	YES	N.A	
	N.A	YES	YES	N.A	N.A	
	N.A	YES	YES	N.A	YES	
8 TO 12	N.A	N.A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

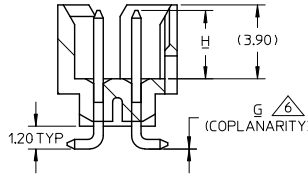
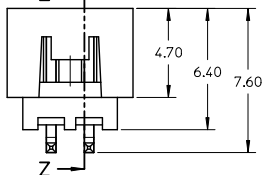
SEE SHEET 2.3.4.6.8812 IEC NO: S2017-0022 DRAWN BY: GMENARLY CHKD: SCHEONG APPR: KHLIM	QUALITY SYMBOLS √=0 √=0 √=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	mm	INCH	DRAWN BY GMENARLY	DATE 2015/05/22	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER <b>molex</b>	DOCUMENT NO. SD-87832-0001	SHEET NO. 1 OF 12
		3 PLACES ± --- ± ---			CHECKED BY CGOH	DATE 2015/09/21			
		2 PLACES ± 0.20 ± ---			APPROVED BY KHLIM	DATE 2015/09/22			
1 PLACE ± --- ± ---			MATERIAL NO. SEE TABLE						
0 PLACE ± --- ± ---			ANGULAR ± 3°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
REV A2				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

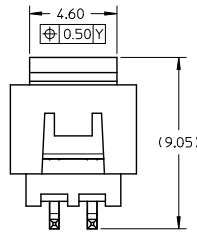
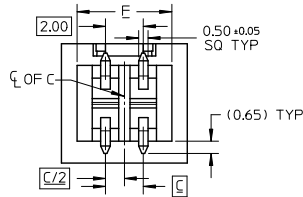
4 CIRCUITS



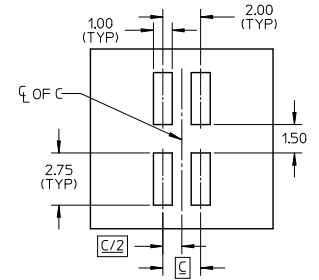
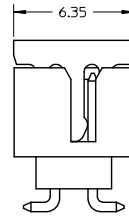
ISO VIEW OF HEADER WITH ONLY DUAL SLOTS



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

EDIT NO.	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				mm	INCH	MM ONLY	DATE				NTS
4	A2	EDIT NOTE 4 EC NO. S2017-0022 DRAWN: GEMARLY 2016/03/22 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28	$\nabla = 0$ $\nabla = 0$ $\nabla = 0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	± --- ± --- ± --- ± --- ± --- ± --- ± --- ± ---	MM ONLY	DATE	DATE	TITLE	DOCUMENT NO.	SHEET NO.
				ANGULAR ± 3°			DATE	DATE	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER	SD-87832-0001	2 OF 12
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			2015/05/22	2015/09/21			
							2015/09/22				
							SEE TABLE				
							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													
	87832-0411	87832-0409	87832-5106	2	2													
87832-0404	N.A	N.A	N.A	2	N.A	YES	YES	N.A	N.A	0.10								

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.

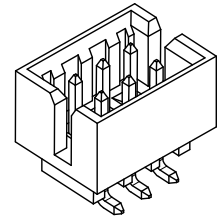
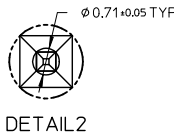
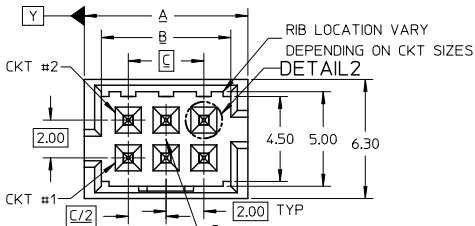
ADD 87832-5106 EC NO: S2017-0022 DRAWN BY: GEMENARLY 2016/03/22 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\sqrt{\text{V}}=0$ $\sqrt{\text{E}}=0$ $\sqrt{\text{D}}=0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	NTS	METRIC	DRAWN BY: GEMENARLY 2015/05/22 CHECKED BY: CGOH 2015/09/21 APPROVED BY: KHLIM 2015/09/22	TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex DOCUMENT NO: SD-87832-0001 SHEET NO: 3 OF 12
	ANGULAR ± 3° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE SIZE: A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
	REV: A2						

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Rev. G 2012/01/11

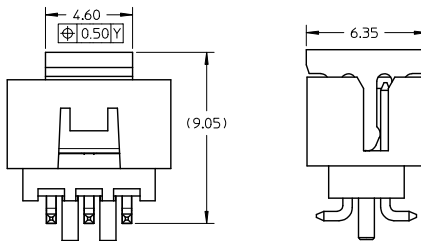
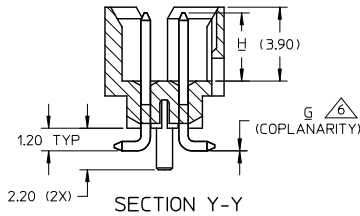
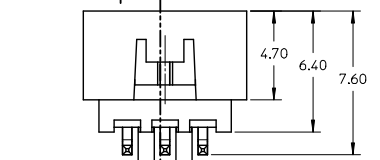
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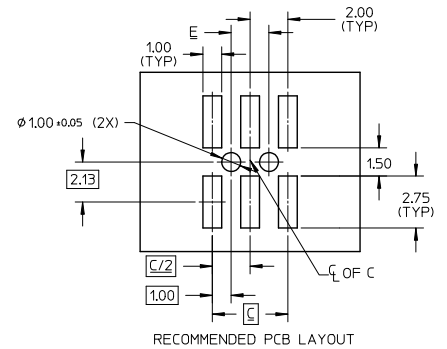
6 CIRCUITS



VIEW FOR HEADER WITH ONLY DUAL SLOTS



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: 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)
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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	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	◎ THIRD ANGLE PROJECTION
	ANGULAR ± 3° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: GMENARLY 2015/05/22 CHECKED BY: CGOH 2015/09/21 APPROVED BY: KHL IM 2015/09/22	TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87832-0001	SHEET NO. 4 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

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		
	87832-0620	87832-0622	87832-5222	1	2	N.A	N.A	YES	N.A	YES							0.10	3.60±0.20
	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								
	87832-0624	87832-0626	87832-0628	1	2	N.A	YES	YES	N.A	N.A							0.10	3.60±0.15
	87832-0625	87832-0627	87832-0629	1	3													
	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														
87832-0604	N.A	N.A	N.A	2	N.A	YES	YES	N.A	YES	0.10	3.60±0.20							

PLATING OPTIONS:

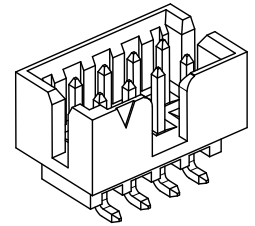
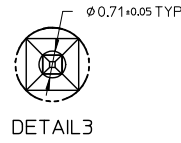
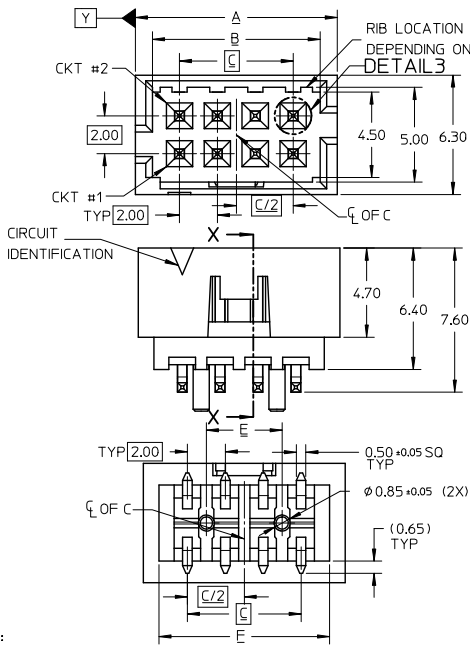
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SEE SHEET 2.3.4.6.8812 EC NO: S2017-0022 DRAWN BY: 2016/03/27 CHKD: SCHEONG 2016/07/27 APPR: KHLIM 2016/07/28 REV: A2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\sqrt{\text{A}}=0$ $\sqrt{\text{B}}=0$ $\sqrt{\text{C}}=0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	DRAWN BY: GMENARLY DATE: 2015/05/22 CHECKED BY: CGOH DATE: 2015/09/21 APPROVED BY: KHLIM DATE: 2015/09/22	TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER molex DOCUMENT NO: SD-87832-0001 SHEET NO: 5 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	

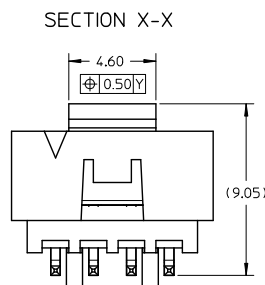
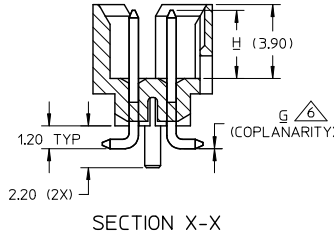
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10 9 8 7 6 5 4 3 2 1

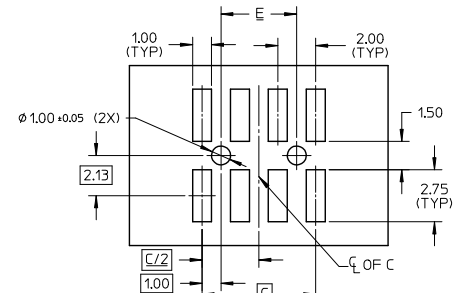
8 TO 12 CIRCUITS



ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



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  
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EDIT NOTE 4 EC NO: S2017-0022 DRAWN BY: GEMENARLY 2016/03/22 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 ±---	±---	GEMENARLY	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	MATERIAL NO.		DOCUMENT NO.	SHEET NO.			
ANGULAR ± 3°		SEE TABLE		A3		SD-87832-0001		6 OF 12		
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						

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 2.3.4.6.8&12	2016/03/22
EC NO: S2017-0022	2016/07/27
DRW: GEMARLY	2016/07/27
CHK: SCHEONG	2016/07/28
APP: 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	

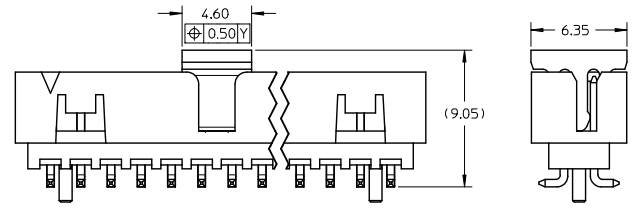
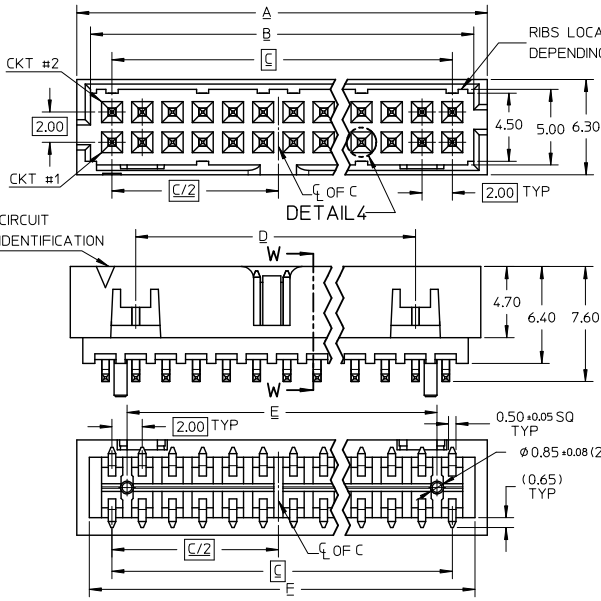
DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
GEMARLY	2015/05/22
CHECKED BY	DATE
CGOH	2015/09/21
APPROVED BY	DATE
KHLIM	2015/09/22

SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
<b>MILLIGRID</b> <b>2MM PITCH, SMT</b> <b>VERTICAL SHROUDED HEADER</b>		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87832-0001	7 OF 12
<small>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</small>		

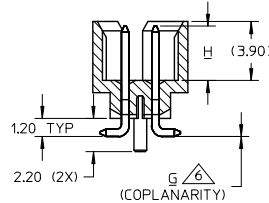
ib\_frame\_A3\_P\_AM\_T Rev. G 2012/01/11 9 8 7 6 5 4 3 2 1



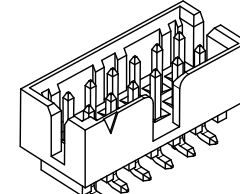
14 TO 50 CIRCUITS



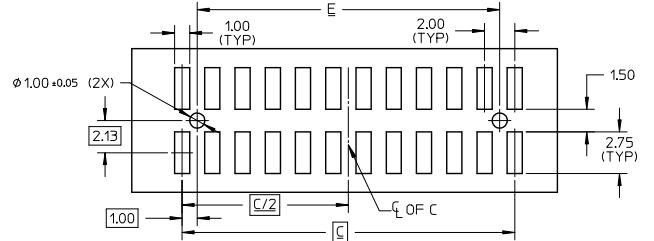
VIEW FOR HEADER WITH CAP



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

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	mm	INCH	MM ONLY	DATE				
$\nabla=0$	4 PLACES	± ---	± ---	GMENARLY	2015/05/22	MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER	SHEET NO. 8 OF 12	
$\nabla=0$	3 PLACES	± ---	± ---	CHECKED BY	DATE			
$\nabla=0$	2 PLACES	± 0.20	± ---	CGOH	2015/09/21			
$\nabla=0$	1 PLACE	± ---	± ---	APPROVED BY	DATE			
	0 PLACE	± ---	± ---	KHLIM	2015/09/22	<b>molex</b>		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.			
			SEE TABLE		SD-87832-0001			
			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													
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	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 DRAWN: GEMARLY 2016/03/27 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	
	$\nabla=0$ $\nabla=0$ $\nabla=0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	NTS	METRIC	<input checked="" type="checkbox"/> THIRD ANGLE PROJECTION	
	DRAWN BY: GEMARLY CHECKED BY: CGOH APPROVED BY: KHLIM	DATE: 2015/05/22 DATE: 2015/09/21 DATE: 2015/09/22	DRAWN BY: GEMARLY 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 <b>molex</b>	MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87832-0001	SHEET NO. 9 OF 12
	DRAFT WHERE APPLICABLE WITHIN DIMENSIONS	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

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													
	87832-2620	87832-2622	87832-6222	1	2													
	87832-2621	87832-2623	87832-6223	1	3	YES	N.A	YES	YES	YES	28.65	26.85	24.00	20.00	22.00	27.00	0.15	3.60±0.20
	87832-2670	87832-2672	87832-6272	1	4												0.15	3.60±0.20
28	87832-2612	87832-2616	N.A	N.A	2	YES	N.A	YES	YES	N.A								
	87832-2860	87832-2862	87832-6362	1	1													
	87832-2820	87832-2822	87832-6322	1	2	YES	N.A	YES	YES	YES	30.65	28.85	26.00	22.00	24.00	29.00	0.15	3.60±0.20
	87832-2821	87832-2823	87832-6323	1	3													
30	87832-3060	87832-3062	87832-6462	1	1													
	87832-3020	87832-3022	87832-6422	1	2													
	87832-3021	87832-3023	87832-6423	1	3	YES	N.A	YES	YES	YES	32.65	30.85	28.00	24.00	26.00	31.00	0.15	3.60±0.20
	87832-3070	87832-3072	87832-6472	1	4													
	87832-3012	87832-3016	87832-3014	3	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20
32	87832-3260	87832-3262	87832-6562	1	1													
	87832-3220	87832-3222	87832-6522	1	2	YES	N.A	YES	YES	YES	34.65	32.85	30.00	26.00	28.00	33.00	0.15	3.60±0.20
	87832-3221	87832-3223	87832-6523	1	3													
	87832-3270	87832-3272	87832-6572	1	4													
34	87832-3460	87832-3462	87832-6662	1	1													
	87832-3420	87832-3422	87832-6622	1	2													
	87832-3421	87832-3423	87832-6623	1	3	YES	N.A	YES	YES	YES	36.65	34.85	32.00	28.00	30.00	35.00	0.15	3.60±0.20
	87832-3470	87832-3472	87832-6672	1	4													
	87832-3412	87832-3416	87832-3414	3	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20
36	87832-3660	87832-3662	N.A	N.A	1													
	87832-3620	87832-3622	N.A	N.A	2	YES	N.A	YES	YES	YES	38.65	36.85	34.00	30.00	32.00	37.00	0.15	3.60±0.20
	87832-3621	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													
	87832-3820	87832-3822	N.A	N.A	2	YES	N.A	YES	YES	YES	40.65	38.85	36.00	32.00	34.00	39.00	0.15	3.60±0.20
	87832-3821	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	2016/03/22
EC NO: S2017-0022	2016/07/27
DRAWN BY: GEMENARLY	2016/07/27
CHECKED BY: CHYK-SCHONG	2016/07/28
APPROVED BY: KHLIM	

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	
MM ONLY	
DRAWN BY	DATE
GEMENARLY	2015/05/22
CHECKED BY	DATE
CGOH	2015/09/21
APPROVED BY	DATE
KHLIM	2015/09/22
MATERIAL NO.	DOCUMENT NO.
SEE TABLE	SD-87832-0001

SCALE NTS DESIGN UNITS METRIC

THIRD ANGLE PROJECTION

TITLE  
MILLIGRID  
2MM PITCH, SMT  
VERTICAL SHROUDED HEADER

**molex**

SHEET NO. 10 OF 12

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

ib\_frame\_A3\_P\_AM\_T 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	2016/07/27	
CHKD: SCHEONG	2016/07/27	
APPR: KILLIM	2016/07/28	

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm	INCH
$\sqrt{\text{A}}=0$	4 PLACES ± --- ± ---	± --- ± ---
$\sqrt{\text{B}}=0$	3 PLACES ± --- ± ---	± --- ± ---
$\sqrt{\text{C}}=0$	2 PLACES ± 0.20 ± ---	± --- ± ---
	1 PLACE ± --- ± ---	± --- ± ---
	0 PLACE ± --- ± ---	± --- ± ---
	ANGULAR ± 3°	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

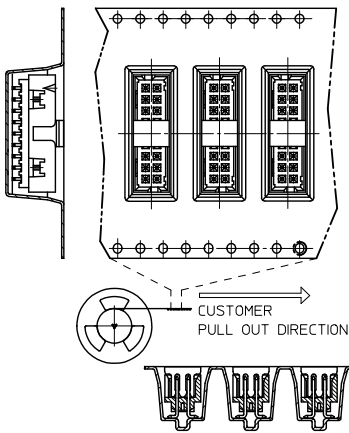
DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	
DRAWN BY	DATE	TITLE	<b>molex</b> MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER	
GMENARLY	2015/05/22			
CHECKED BY	DATE			
CGOH	2015/09/21			
APPROVED BY	DATE			
KHL IM	2015/09/22			
MATERIAL NO.	SEE TABLE	DOCUMENT NO.	SD-87832-0001	SHEET NO.
SIZE	A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		11 OF 12

9 8 7 6 5 4 3 2 1

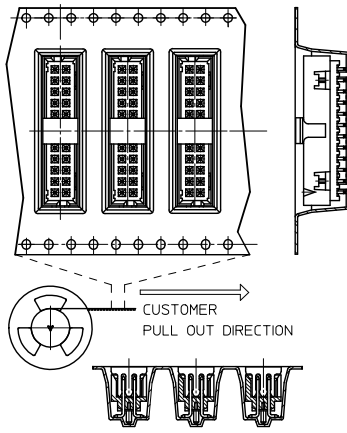
10 9 8 7 6 5 4 3 2 1

**PACKAGING OPTIONS**

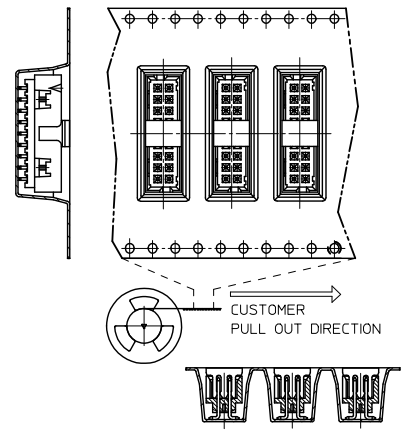
OPTION 1



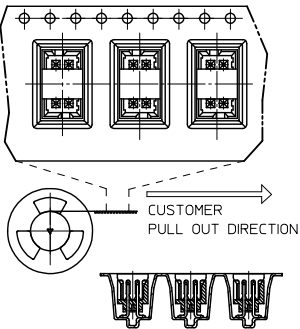
OPTION 2



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

<b>ADD PK TABLE</b> 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
	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	TITLE: MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER <b>molex</b> DOCUMENT NO. SD-87832-0001	SHEET NO. 12 OF 12	
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SIZE A3				

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