



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

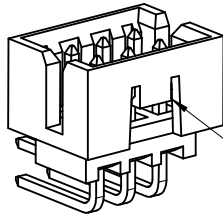
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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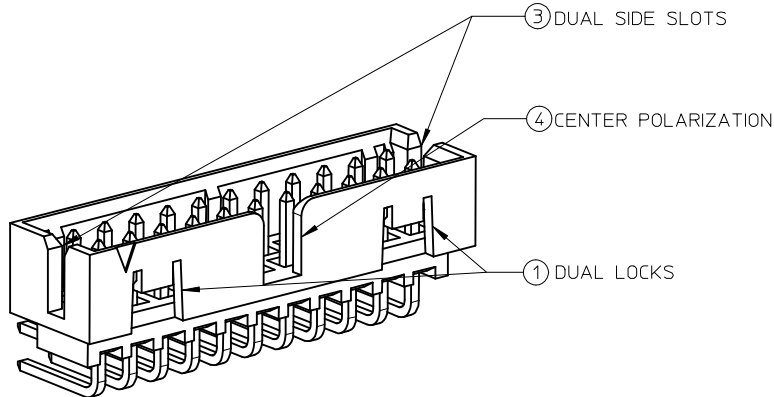
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# FEATURES SELECTION GUIDE



② CENTER LOCK



① DUAL LOCKS

③ DUAL SIDE SLOTS

④ CENTER POLARIZATION

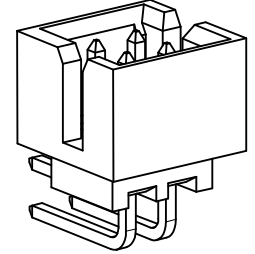
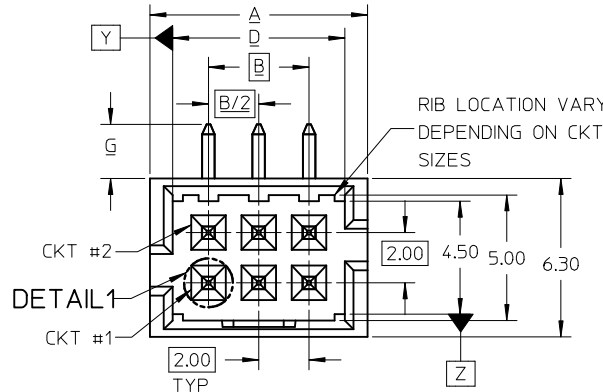
CIRCUIT SIZE	FEATURES				SHEET NO
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	
	① DUAL	② CENTER			
4 - 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

## PACKAGING SPECIFICATION TABLE

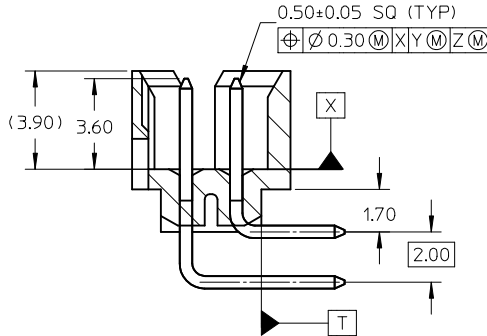
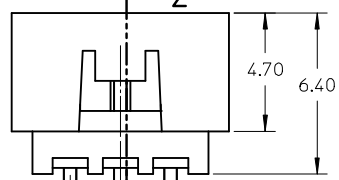
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

SEE SHEET 7&9 EC NO: S2017-0353 DRWNG: GEMARLY 2016/10/19 CH'KD: SCHEONG 2016/12/30 APPR: KHLIM 2016/12/30	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	$\nabla_{\sqrt{A}}=0$	mm	INCH	DRAWN BY GMENARLY	DATE 2015/09/29	TITLE MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE		
	$\nabla_{\sqrt{C}}=0$	4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY CGOH	DATE 2015/10/30	<b>molex</b> SD-87833-0001 SHEET NO. 1 OF 9		
	$\nabla_{\sqrt{P}}=0$	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY KHLIM	DATE 2015/11/03			
	0 PLACE ± --- ± ---	ANGULAR ± 3 °		MATERIAL NO. SEE TABLE		DOCUMENT NO.		
A5	DESCRIPTION	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	

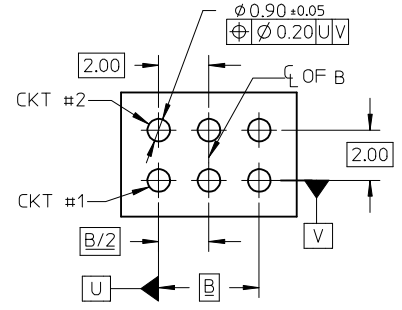
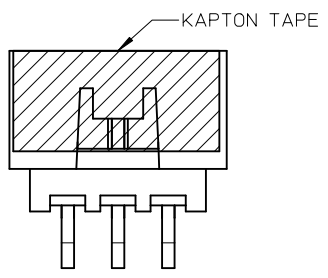
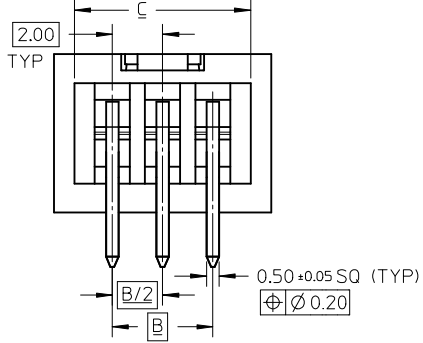
4 TO 6 CIRCUITS



ISO VIEW OF HEADER  
DUAL SIDE SLOTS



SECTION Z-Z



RECOMMENDED PCB LAYOUT

- 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, 6 CIRCUITS HEADER IS SHOWN

SEE SHEET 7&9 IEC NO: S2017-0353 DRAWN: GMENARLY 2016/10/19 CHYKD: SCHEONG 2016/12/30 APPR: KHL IM 2016/12/30	QUALITY SYMBOLS $\nabla F = 0$ $\nabla E = 0$ $\nabla D = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY GMENARLY	DATE 2015/09/29	TITLE MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE			
		4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2015/10/30				
		3 PLACES	± ---	± ---	APPROVED BY KHL IM	DATE 2015/11/03				
2 PLACES	± 0.20	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
1 PLACE	± ---	± ---	SEE TABLE		SD-87833-0001		2 OF 9			
0 PLACE	± ---	± ---	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					
SIZE A3										

4 TO 6 CIRCUITS

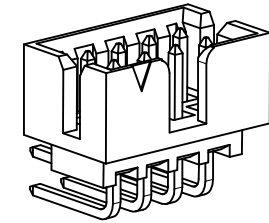
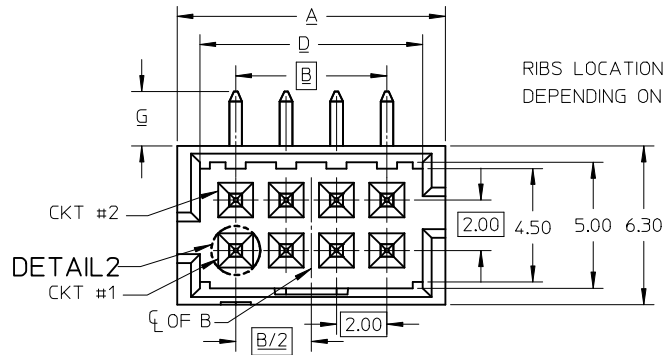
CKT SIZE	ASSY P/N WITHOUT KAPTON IN TUBE	ASSY P/N WITH KAPTON IN TUBE	ASSY P/N WITH KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION							
					DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)	
4	87833-0419	N.A	N.A	1	N.A	N.A	YES	N.A	6.65	2.00	5.00	4.85	N.A	N.A	2.16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

PLATING OPTIONS:

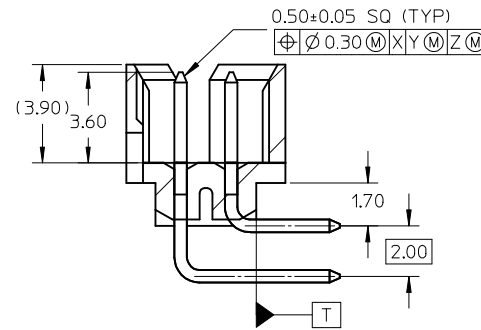
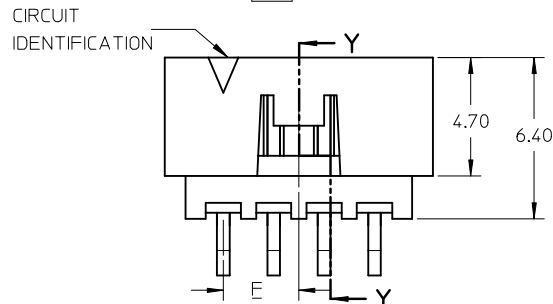
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD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

SEE SHEET 789 EC NO: S2017-0353 DRWN:GMENARLY 2016/10/19 CHKD:SCHEONG 2016/12/30 APPR:KHL IM 2016/12/30	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$\nabla_A=0$	mm	INCH	MM ONLY	NTS	METRIC		
		$\nabla_C=0$	4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE	MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE	
		$\nabla_P=0$	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	CHECKED BY	DATE	SD-87833-0001		
	0 PLACE ± --- ± ---	APPROVED BY	DATE	SHEET NO.					
A5	REV	ANGULAR ± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE	DOCUMENT NO.	3 OF 9		
					SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

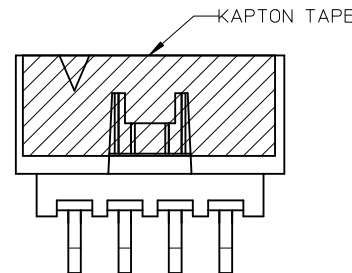
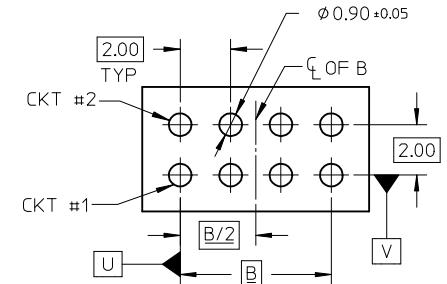
8 TO 12 CIRCUITS



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: 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, 8 CIRCUIT HEADER IS SHOWN

SEE SHEET 789 EC NO: S2017-0353 DRWN:GMENARLY 2016/10/19 CHKD:SCHEONG 2016/12/30 APPR:KHLIM 2016/12/30	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		$\nabla_A = 0$	4 PLACES	mm	INCH	DRAWN BY GMENARLY	DATE 2015/09/29	TITLE MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE			
		$\nabla_E = 0$	3 PLACES	$\pm$ ---	$\pm$ ---	CHECKED BY CGOH	DATE 2015/10/30				
		$\nabla_F = 0$	2 PLACES	$\pm 0.20$	$\pm$ ---	APPROVED BY KHLIM	DATE 2015/11/03				
		1 PLACE	$\pm$ ---	$\pm$ ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		0 PLACE	$\pm$ ---	$\pm$ ---	SEE TABLE		SD-87833-0001		4 OF 9		
		ANGULAR $\pm 3^\circ$		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					
					SIZE A3						

8 TO 12 CIRCUITS

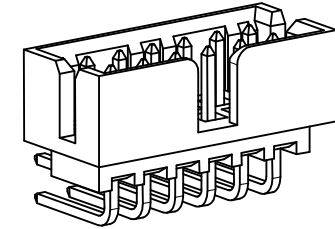
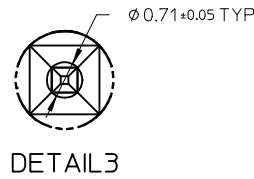
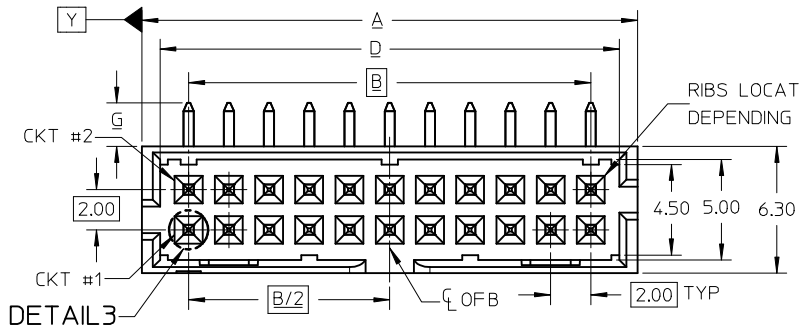
CKT SIZE	ASSY P/N WITHOUT KAPTON IN TUBE	ASSY P/N WITH KAPTON IN TUBE	ASSY P/N WITH KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION							
					DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)	
8	87833-0819	N.A	N.A	1	N.A	N.A	YES	YES	10.65	6.00	9.00	8.85	N.A	N.A	2.16	
	87833-0820	N.A	N.A	2												
	87833-0821	N.A	N.A	3	N.A	N.A	YES	YES						N.A	3.00	2.16
	87833-6320	N.A	N.A	2												
	87833-6321	N.A	N.A	3	N.A	YES	YES	N.A						3.00	3.18	
	87833-0831	87833-0841	87833-0851	2												
	87833-0832	N.A	N.A	3	N.A	YES	YES	N.A						N.A	2.92	
	87833-0861	N.A	N.A	2												
87833-0824	N.A	N.A	2	N.A	N.A	YES	YES	N.A	2.92							
87833-0825	N.A	N.A	3													
10	87832-1019	N.A	N.A	1	N.A	N.A	YES	YES	12.65	8.00	11.00	10.85	N.A	N.A	2.16	
	87833-1020	N.A	N.A	2												
	87833-1021	N.A	N.A	3	N.A	YES	YES	N.A						4.00	2.16	
	87833-1031	N.A	N.A	2												
	87833-1032	N.A	N.A	3	N.A	YES	YES	N.A						4.00	1.70	
	N.A	87833-1041	87833-1051	2												
	87833-1024	N.A	N.A	2	N.A	N.A	YES	YES						N.A	2.92	
87833-1025	N.A	N.A	3													
12	87833-1219	N.A	N.A	1	N.A	N.A	YES	YES	14.65	10.00	13.00	12.85	N.A	N.A	2.16	
	87833-1220	N.A	N.A	2												
	87833-1221	N.A	N.A	3	N.A	N.A	YES	YES						N.A	3.18	
	87833-6020	N.A	N.A	2												
	87833-1231	N.A	N.A	2	N.A	YES	YES	N.A						5.00	2.16	
	87833-1232	N.A	N.A	3												
	87833-1224	N.A	N.A	2	N.A	N.A	YES	YES						N.A	2.92	
87833-1225	N.A	N.A	3													

PLATING OPTIONS:

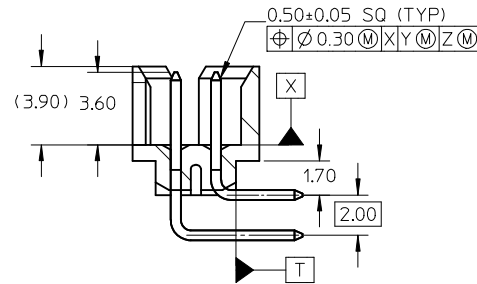
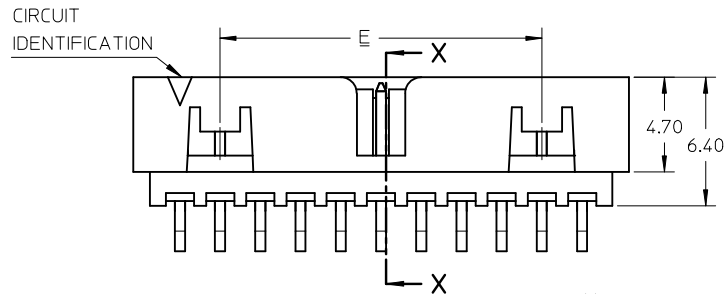
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD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

SEE SHEET 7&9 EC NO: S2017-0353 DRWNG: GEMARLY 2016/10/19 CHK'D: SCHEONG 2016/12/30 APPR: KHL IM 2016/12/30	REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	NTS	METRIC	DRAWN BY: GMENARLY    DATE: 2015/09/29 CHECKED BY: CGOH    DATE: 2015/10/30 APPROVED BY: KHL IM    DATE: 2015/11/03	MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE  <b>molex</b> SD-87833-0001
		ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	MATERIAL NO. DOCUMENT NO.	SHEET NO. 5 OF 9			
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

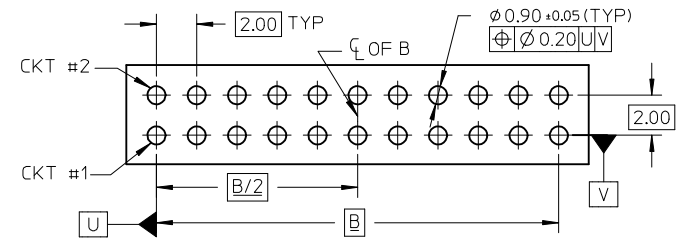
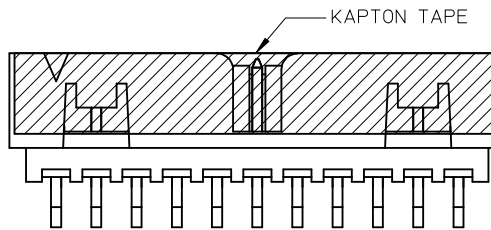
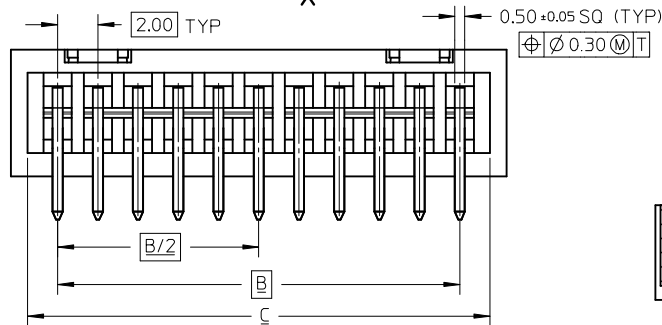
14 TO 50 CIRCUITS



ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



SECTION X-X



NOTES:

1. MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH:  
A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
6. FOR ILLUSTRATION PURPOSE, 22 CIRCUITS HEADER IS SHOWN

SEE SHEET 7&9 EC NO: S2017-0353 DRWN:GMENARLY 2016/10/19 CHKD:SCHEONG 2016/12/30 APPR:KHL IM 2016/12/30	QUALITY SYMBOLS F <sub>A</sub> =0 F <sub>C</sub> =0 F <sub>P</sub> =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		mm	INCH	DRAWN BY GMENARLY	DATE 2015/09/29	TITLE MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE				
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY CGOH	DATE 2015/10/30					
		2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY KHL IM	DATE 2015/11/03					
ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87833-0001		SHEET NO. 6 OF 9		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

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	YES	N.A	YES	YES	16.65	12.00	15.00	14.85	8.00	N.A	2.16	
	87833-1420	N.A	N.A	2											3.18	
	87833-1421	N.A	N.A	3											3.50	
	87833-5320	N.A	N.A	2	YES	N.A	YES	YES							YES	1.70
	87833-5321	N.A	N.A	3												2.16
	87833-1436	N.A	N.A	3												3.18
N.A	N.A	87833-7420	2	YES	N.A	YES	YES	YES	3.50							
16	87833-1619	N.A	N.A	1	YES	N.A	YES	YES	18.65	14.00	17.00	16.85	10.00	N.A	2.16	
	87833-1620	N.A	N.A	2											3.18	
	87833-1621	N.A	N.A	3											2.16	
	87833-6120	N.A	87833-7120	2	YES	N.A	YES	YES							YES	3.18
18	87833-1819	N.A	N.A	1	YES	N.A	YES	YES	20.65	16.00	19.00	18.85	12.00	N.A	2.16	
	87833-1820	N.A	N.A	2											3.18	
	87833-1821	N.A	N.A	3											2.16	
	87833-6220	N.A	N.A	2	YES	N.A	YES	YES							YES	3.18
20	87833-2019	N.A	N.A	1	YES	N.A	YES	YES	22.65	18.00	21.00	20.85	14.00	N.A	2.16	
	87833-2020	N.A	87833-7220	2											3.18	
	87833-2021	N.A	N.A	3											3.50	
	87833-6520	N.A	N.A	2	YES	N.A	YES	YES							YES	2.16
	87833-6521	N.A	N.A	3												3.18
	87833-2036	N.A	N.A	3												YES
22	87833-2219	N.A	N.A	1	YES	N.A	YES	YES	24.65	20.00	23.00	22.85	16.00	N.A	2.16	
	87833-2220	N.A	N.A	2											2.16	
	87833-2221	N.A	N.A	3											3.18	
24	87833-2419	N.A	N.A	1	YES	N.A	YES	YES	26.65	22.00	25.00	24.85	18.00	N.A	2.16	
	87833-2420	N.A	87833-7020	2											3.18	
	87833-2421	N.A	N.A	3											3.50	
	87833-7320	N.A	N.A	2	YES	N.A	YES	YES							YES	2.00
	87833-2436	N.A	N.A	3												3.50
	87833-6920	N.A	N.A	2												YES

PLATING OPTIONS:

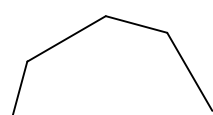
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD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

ADD 87833-7420 EC NO: S2017-0353 DRWN:GEMARLY 2016/10/19 CHKD:SCHEONG 2016/12/30 APPR:KHLIM 2016/12/30	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		$\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$	mm    INCH	MM ONLY	NTS	METRIC	
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	DRAWN BY: GEMARLY    DATE: 2015/09/29 CHECKED BY: CGOH    DATE: 2015/10/30 APPROVED BY: KHLIM    DATE: 2015/11/03	TITLE	MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE		
		ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87833-0001	SHEET NO. 7 OF 9		



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											
	87833-2620	N.A	N.A	2											
	87833-2621	N.A	N.A	3	YES	N.A	YES	YES	28.65	24.00	27.00	26.85	20.00	N.A	2.16
	87833-2636	N.A	N.A	3	YES	N.A	YES	YES							3.50
28	87833-2819	N.A	N.A	1											
	87833-2820	N.A	N.A	2											
	87833-2821	N.A	N.A	3	YES	N.A	YES	YES	30.65	26.00	29.00	28.85	22.00	N.A	2.16
	87833-6620	N.A	N.A	2	YES	N.A	YES	YES							3.18
30	87832-3019	N.A	N.A	1											
	87833-3020	N.A	N.A	2											
	87833-3021	N.A	N.A	3	YES	N.A	YES	YES	32.65	28.00	31.00	30.85	24.00	N.A	2.16
	87833-6720	N.A	N.A	2											
	87833-6721	N.A	N.A	3	YES	N.A	YES	YES							3.18
	87833-3036	N.A	N.A	3	YES	N.A	YES	YES							3.50
32	87833-3219	N.A	N.A	1											
	87833-3220	N.A	N.A	2	YES	N.A	YES	YES	34.65	30.00	33.00	32.85	26.00	N.A	2.16
	87833-3221	N.A	N.A	3											
34	87833-3419	N.A	N.A	1											
	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	36.65	32.00	35.00	34.85	28.00	N.A	2.16
	87833-3424	N.A	N.A	2	N.A	N.A	YES	YES							3.18
36	87833-3619	N.A	N.A	1											
	87833-3620	N.A	N.A	2	YES	N.A	YES	YES	38.65	34.00	37.00	36.85	30.00	N.A	2.16
	87833-3621	N.A	N.A	3											
38	87833-3819	N.A	N.A	1											
	87833-3820	N.A	N.A	2	YES	N.A	YES	YES	40.65	36.00	39.00	38.85	32.00	N.A	2.16
	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 7&9 EC NO: S2017-0353 DRWN:GMENARLY 2016/10/19 CHKD:SCHEONG 2016/12/30 APPR:KHL IM 2016/12/30	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$F_A=0$	mm	INCH	MM ONLY	NTS	METRIC	
	$F_C=0$	4 PLACES ± --- ± ---		DRAWN BY	DATE	TITLE	
	$F_B=0$	3 PLACES ± --- ± ---		GMENARLY	2015/09/29	MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE	
	2 PLACES ± 0.20 ± ---		CHECKED BY	DATE			
	1 PLACE ± --- ± ---		CGOH	2015/10/30			
	0 PLACE ± --- ± ---		APPROVED BY	DATE			
			KHL IM	2015/11/03			
			MATERIAL NO.	DOCUMENT NO.			
			SEE TABLE	SD-87833-0001			
			ANGULAR ± 3 °				
			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			

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												
	87833-4020	N.A	N.A	2	YES	N.A	YES	YES	42.65	38.00	41.00	40.85	34.00	N.A	2.16	
	87833-4021	N.A	N.A	3												
42	87833-4219	N.A	N.A	1												
	87833-4220	N.A	N.A	2	YES	N.A	YES	YES	44.65	40.00	43.00	42.85	36.00	N.A	2.16	
	87833-4221	N.A	N.A	3												
44	87833-4419	N.A	N.A	1												
	87833-4420	N.A	N.A	2	YES	N.A	YES	YES	46.65	42.00	45.00	44.85	38.00	N.A	2.16	
	87833-4421	N.A	N.A	3												
	87833-4424	N.A	N.A	2	N.A	N.A	YES	YES								
	87832-4425	N.A	N.A	3												2.92
46	87833-4619	N.A	N.A	1												
	87833-4620	N.A	N.A	2	YES	N.A	YES	YES	48.65	44.00	47.00	46.85	40.00	N.A	2.16	
	87833-4621	N.A	N.A	3												
48	87833-4819	N.A	N.A	1												
	87833-4820	N.A	N.A	2	YES	N.A	YES	YES	50.65	46.00	49.00	48.85	42.00	N.A	2.16	
	87833-4821	N.A	N.A	3												
50	87833-5019	N.A	N.A	1												
	87833-5020	N.A	N.A	2	YES	N.A	YES	YES	52.65	48.00	51.00	50.85	44.00	N.A	2.16	
	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.

CORRECT DIM G @ D1 EC NO: S2017-0353 DRWN:GMENARLY 2016/10/19 CHKD:SCHEONG 2016/12/30 APPR:KHL IM 2016/12/30	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
	$\nabla_A = 0$ $\nabla_G = 0$ $\nabla_P = 0$	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 SHROUDED HEADER R/A, THROUGH HOLE			
		SEE TABLE	CGOH	2015/10/30	 SD-87833-0001			
			KHL IM	2015/11/03				SHEET NO. 9 OF 9
			MATERIAL NO.			DOCUMENT NO.		
			SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		