

Excellent Integrated System Limited

Stocking Distributor

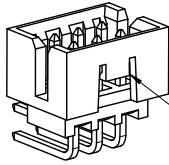
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)
[0878334424](#)

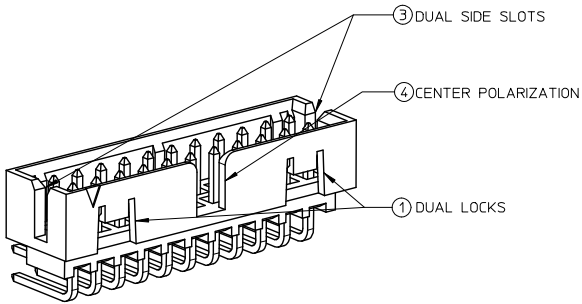
For any questions, you can email us directly:

sales@integrated-circuit.com

FEATURES SELECTION GUIDE



② CENTER LOCK



③ DUAL SIDE SLOTS

④ CENTER POLARIZATION

① DUAL LOCKS

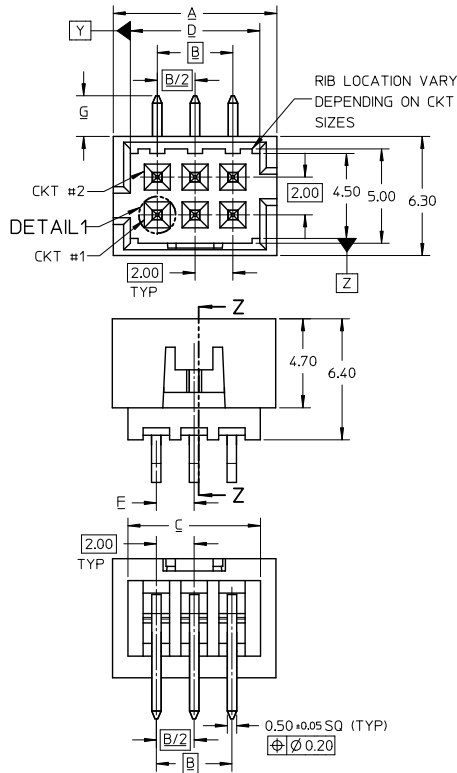
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	② CENTER			
4 - 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

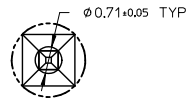
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

ADD PK TABLE EC NO: S2017-0022 DRAWN BY: GMENARLY CHKD: SCHEONG APPR: KHLIM	REV	DESCRIPTION	QUALITY SYMBOLS	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, SMT R/A SHROUDED HEADER molex				
				4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2015/10/30					
				3 PLACES	± ---	± ---	APPROVED BY KHLIM	DATE 2015/11/03					
				2 PLACES	± 0.20	± ---	MATERIAL NO.	DOCUMENT NO.					
				1 PLACE	± ---	± ---	SEE TABLE						SD-87833-0001
				0 PLACE	± ---	± ---			SHEET NO. 1 OF 9				
				ANGULAR ± 3 °									
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

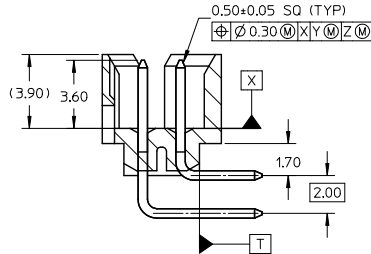
10 9 8 7 6 5 4 3 2 1



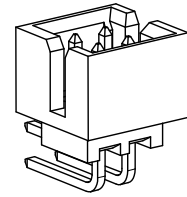
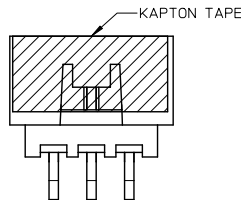
4 TO 6 CIRCUITS



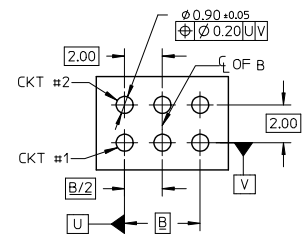
DETAIL 1



SECTION Z-Z



ISO VIEW OF HEADER
DUAL SIDE SLOTS



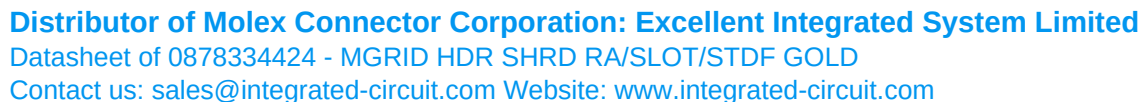
RECOMMENDED PCB LAYOUT

NOTES:

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

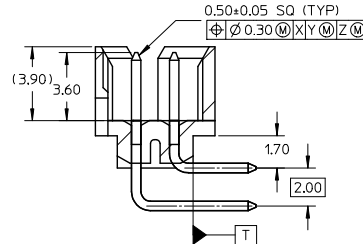
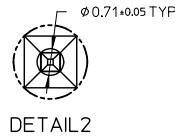
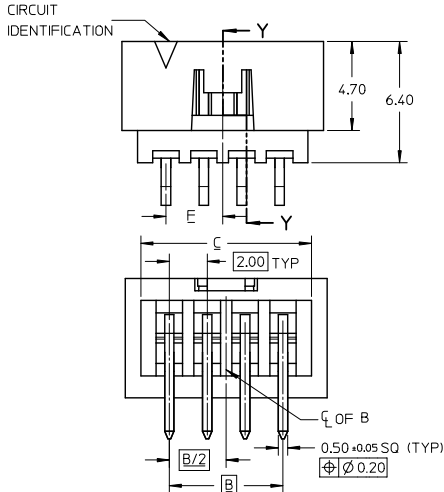
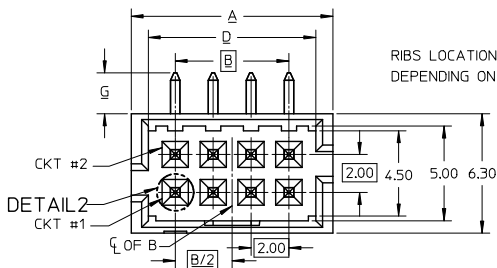
EDIT NOTE 4 EC NO: S2017-0022 DRAWN:GMENARLY 2016/07/12 CHKD:SCHEONG 2016/07/27 APPR:KHL IM 2016/07/28 A2	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION		
						MM ONLY		NTS	METRIC			
				mm	INCH	DRAWN BY	DATE	TITLE MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER molex				
			 =0	4 PLACES	± ---	± ---	GMENARLY				2015/09/29	
			 =0	3 PLACES	± ---	± ---	CHECKED BY				DATE	
			 =0	2 PLACES	± 0.20	± ---	CGOH				2015/10/30	
			 =0	1 PLACE	± ---	± ---	APPROVED BY				DATE	
				0 PLACE	± ---	± ---	KHL IM	2015/11/03	DOCUMENT NO. SD-87833-0001			
			ANGULAR ± 3 °			MATERIAL NO.		SHEET NO. 2 OF 9				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE						
			SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

9 8 7 6 5 4 3 2 1

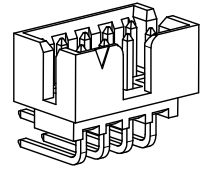
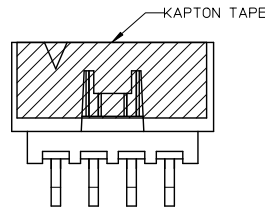


tb_frame_A3_P_AM_T
Rev. G 2012/01/11

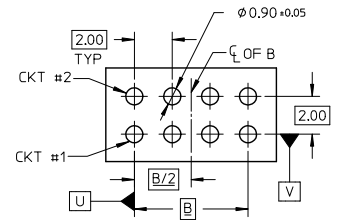
8 TO 12 CIRCUITS



SECTION Y-Y



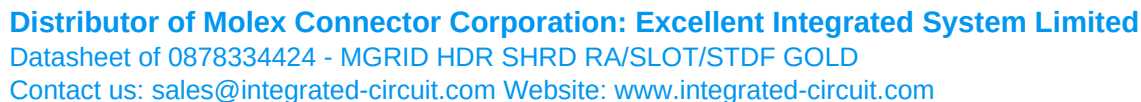
ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



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, 8 CIRCUIT HEADER IS SHOWN

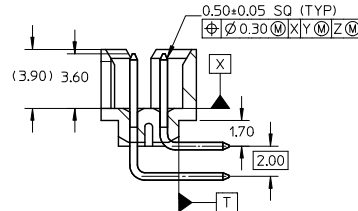
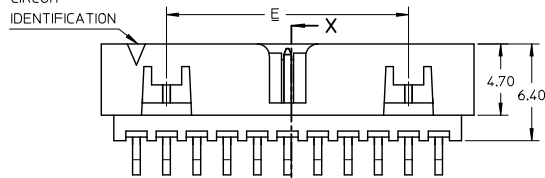
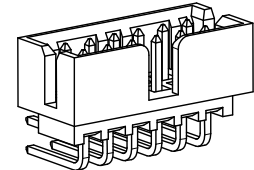
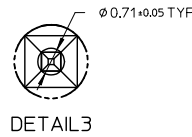
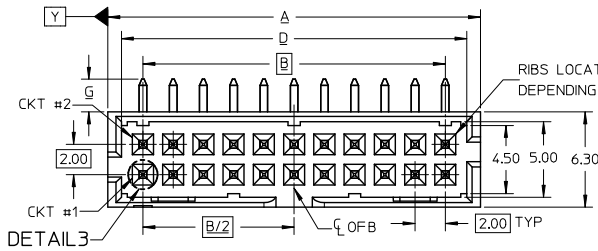
EDIT NOTE 4 EC NO: SZ077-0022 DRAWN:GEMARLY 2016/07/12 CHKD:CSCHONG 2016/07/27 APPR:KHLIM 2016/07/28	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY GEMARLY	DATE 2015/09/29	TITLE MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER molex			
						CHECKED BY CGOH	DATE 2015/10/30				
						APPROVED BY KHLIM	DATE 2015/11/03				
						MATERIAL NO.	SEE TABLE				DOCUMENT NO. SD-87833-0001
						ANGULAR ± 3 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					



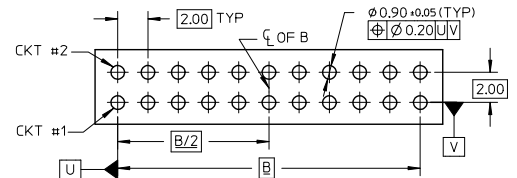
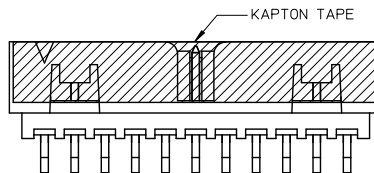
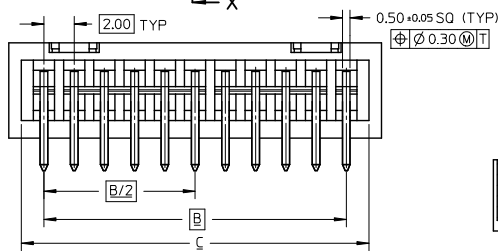
lb_frame_A3_P_AM_T Rev. G 2012/01/11	9	8	7	6	5	4	3	2	1
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10 9 8 7 6 5 4 3 2 1

14 TO 50 CIRCUITS



SECTION X-X

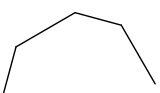


NOTES:

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

EDIT NOTE 4 EC NO: SZ07-0022 DRAWN BY CHYK-SCHONG APPROVAL IN A2	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY GMEARLY	DATE 2015/09/29	TITLE MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER molex			
			4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2015/10/30				
			3 PLACES	± ---	± ---	APPROVED BY	DATE				
			2 PLACES	± 0.20	± ---	KHL IM	2015/11/03				
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
			0 PLACE	± ---	± ---	SEE TABLE		SD-87833-0001	6 OF 9		
			ANGULAR ± 3 °			SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			DRAFT WHERE APPLICABLE								
			MUST REMAIN WITHIN DIMENSIONS								

	10	9	8	7	6	5	4	3	2	1													
	14 TO 24 CIRCUITS																						
F	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							F						
						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																		
		87833-5320	N.A	N.A	2	YES	N.A	YES	YES							3.18							
		87833-5321	N.A	N.A	3											3.50							
	87833-1436	N.A	N.A	3	YES	N.A	YES	YES															
E	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																		
		87833-6120	N.A	87833-7120	2	YES	N.A	YES	YES														
	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																		
		87833-6220	N.A	N.A	2	YES	N.A	YES	YES														
D	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																		
		87833-6520	N.A	N.A	2	YES	N.A	YES	YES							3.18							
		87833-6521	N.A	N.A	3											3.50							
	87833-2036	N.A	N.A	3	YES	N.A	YES	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																		
		87833-2221	N.A	N.A	3																		
C	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											3.50							
		87833-2421	N.A	N.A	3																		
		87833-2436	N.A	N.A	3	YES	N.A	YES	YES														
		87833-6920	N.A	N.A	2	YES	N.A	YES	YES														3.27
B																		B					
	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.																						
A																		A					
	SEE SHEET 12.4.6 EC NO. S2017-0022 DRAWN:GHEARLY 2016/07/12 CHKD:SCHROED 2016/07/17 APPR:KHL IM 2016/07/18 A2																						
	REV DESCRIPTION QUALITY SYMBOLS																						
	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 GMENARLY 2015/09/29																						
	CHECKED BY DATE CGOH 2015/10/30																						
	APPROVED BY DATE KHL IM 2015/11/03																						
	MATERIAL NO.																						
	SEE TABLE																						
	INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						
	SCALE NTS																						
	DESIGN UNITS METRIC																						
	THIRD ANGLE PROJECTION																						
	MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER																						
	molex																						
	DOCUMENT NO. SD-87833-0001																						
	SHEET NO. 7 OF 9																						
	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																											
	26 TO 38 CIRCUITS																																				
F	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						F																					
						DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)																					
	26	87833-2619	N.A	N.A	1	YES	N.A	YES	YES	28.65	24.00	27.00	26.85	20.00	N.A	2.16																					
		87833-2620	N.A	N.A	2																																
		87833-2621	N.A	N.A	3																																
		87833-2636	N.A	N.A	3											3.50																					
E	28	87833-2819	N.A	N.A	1	YES	N.A	YES	YES	30.65	26.00	29.00	28.85	22.00	N.A	2.16																					
		87833-2820	N.A	N.A	2																																
		87833-2821	N.A	N.A	3																																
		87833-6620	N.A	N.A	2											3.18																					
	30	87832-3019	N.A	N.A	1	YES	N.A	YES	YES	32.65	28.00	31.00	30.85	24.00	N.A	2.16																					
		87833-3020	N.A	N.A	2																																
		87833-3021	N.A	N.A	3																																
		87833-6720	N.A	N.A	2	YES	N.A	YES	YES							3.18																					
		87833-6721	N.A	N.A	3																																
		87833-3036	N.A	N.A	3											3.50																					
D	32	87833-3219	N.A	N.A	1	YES	N.A	YES	YES	34.65	30.00	33.00	32.85	26.00	N.A	2.16																					
		87833-3220	N.A	N.A	2																																
		87833-3221	N.A	N.A	3																																
	34	87833-3419	N.A	N.A	1	YES	N.A	YES	YES	36.65	32.00	35.00	34.85	28.00	N.A	2.16																					
		87833-3420	N.A	N.A	2																																
		87833-3421	N.A	N.A	3																																
		87833-5420	N.A	N.A	2	YES	N.A	YES	YES							3.18																					
		87833-3424	N.A	N.A	2	N.A	N.A	YES	YES							2.92																					
C	36	87833-3619	N.A	N.A	1	YES	N.A	YES	YES	38.65	34.00	37.00	36.85	30.00	N.A	2.16																					
		87833-3620	N.A	N.A	2																																
		87833-3621	N.A	N.A	3																																
	38	87833-3819	N.A	N.A	1	YES	N.A	YES	YES	40.65	36.00	39.00	38.85	32.00	N.A	2.16																					
		87833-3820	N.A	N.A	2																																
		87833-3821	N.A	N.A	3																																
B												B																									
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.					SEE SHEET 1246 IEC NO. 2007-0022 DRAWN BY 2016/07/12 CHIKO-SCHONG 2016/07/28 APPR:KHL IM REV A2		QUALITY SYMBOLS =0 =0 =0		GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></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> ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	0 PLACE	± ---	± ---	DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/09/29 CHECKED BY DATE CGOH 2015/10/30 APPROVED BY DATE KHL IM 2015/11/03		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER molex MATERIAL NO. SEE TABLE THIS DRAFT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DOCUMENT NO. SD-87833-0001	SHEET NO. 8 OF 9
	mm	INCH																																			
4 PLACES	± ---	± ---																																			
3 PLACES	± ---	± ---																																			
2 PLACES	± 0.20	± ---																																			
1 PLACE	± ---	± ---																																			
0 PLACE	± ---	± ---																																			
	1b_frame_A3_P_AM_T	9	8	7	6	5	4	3	2	1																											
	Rev. G 2012/01/11																																				

		10		9		8		7		6		5		4		3		2		1	
40 TO 50 CIRCUITS																					
F	CKT SIZE	ASSY P/N WITHOUT KAPTON IN TUBE	ASSY P/N WITH KAPTON IN TUBE	ASSY P/N WITH KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION											
						DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)					
40	87833-4019	N.A	N.A	1	YES	N.A	YES	YES	42.65	38.00	41.00	40.85	34.00	N.A	2.16						
	87833-4020	N.A	N.A	2																	
	87833-4021	N.A	N.A	3																	
42	87833-4219	N.A	N.A	1	YES	N.A	YES	YES	44.65	40.00	43.00	42.85	36.00	N.A	2.16						
	87833-4220	N.A	N.A	2																	
	87833-4221	N.A	N.A	3																	
E	87833-4419	N.A	N.A	1	YES	N.A	YES	YES	46.65	42.00	45.00	44.85	38.00	N.A	2.16						
	87833-4420	N.A	N.A	2																	
	87833-4421	N.A	N.A	3																	
	87833-4424	N.A	N.A	2																	
	87832-4425	N.A	N.A	3	N.A	N.A	YES	YES							2.92						
46	87833-4619	N.A	N.A	1	YES	N.A	YES	YES	48.65	44.00	47.00	46.85	40.00	N.A	2.16						
	87833-4620	N.A	N.A	2																	
	87833-4621	N.A	N.A	3																	
D	87833-4819	N.A	N.A	1	YES	N.A	YES	YES	50.65	46.00	49.00	48.85	42.00	N.A	2.16						
	87833-4820	N.A	N.A	2																	
	87833-4821	N.A	N.A	3																	
50	87833-5019	N.A	N.A	1	YES	N.A	YES	YES	52.65	48.00	51.00	50.85	44.00	N.A	0.15						
	87833-5020	N.A	N.A	2																	
	87833-5021	N.A	N.A	3																	