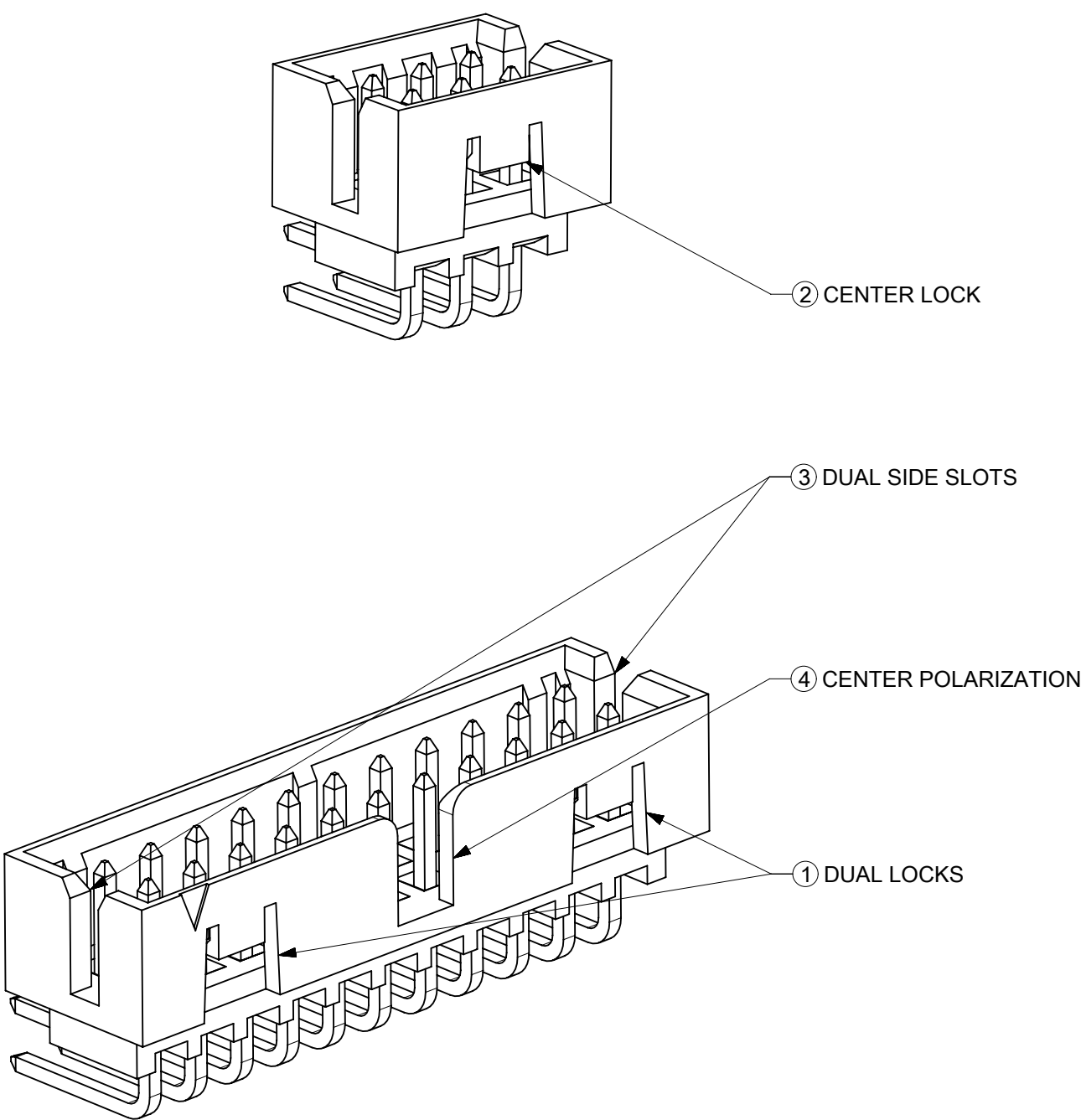


FEATURES SELECTION GUIDE

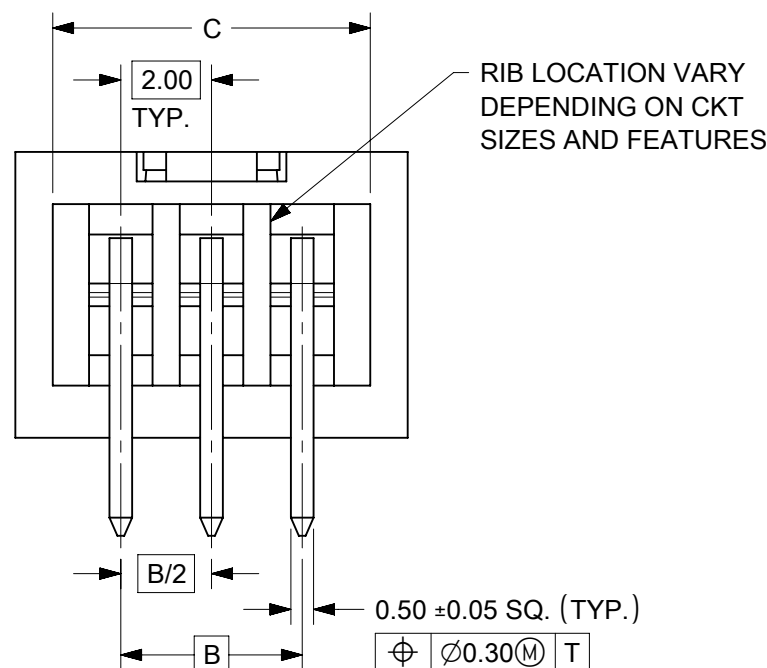
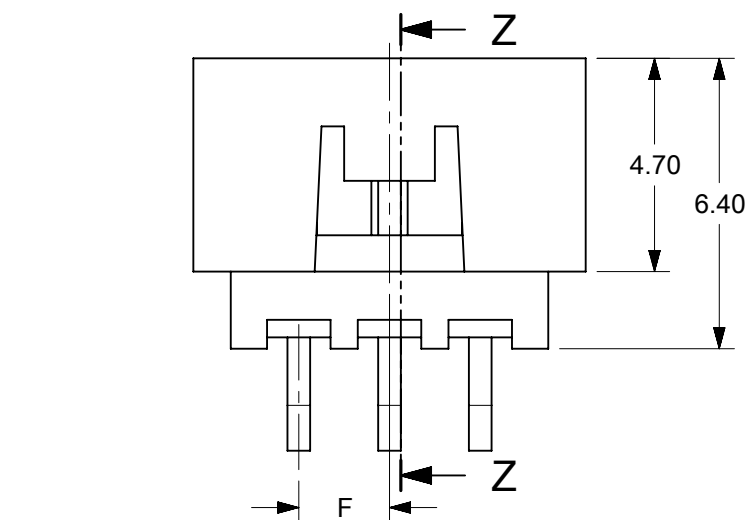
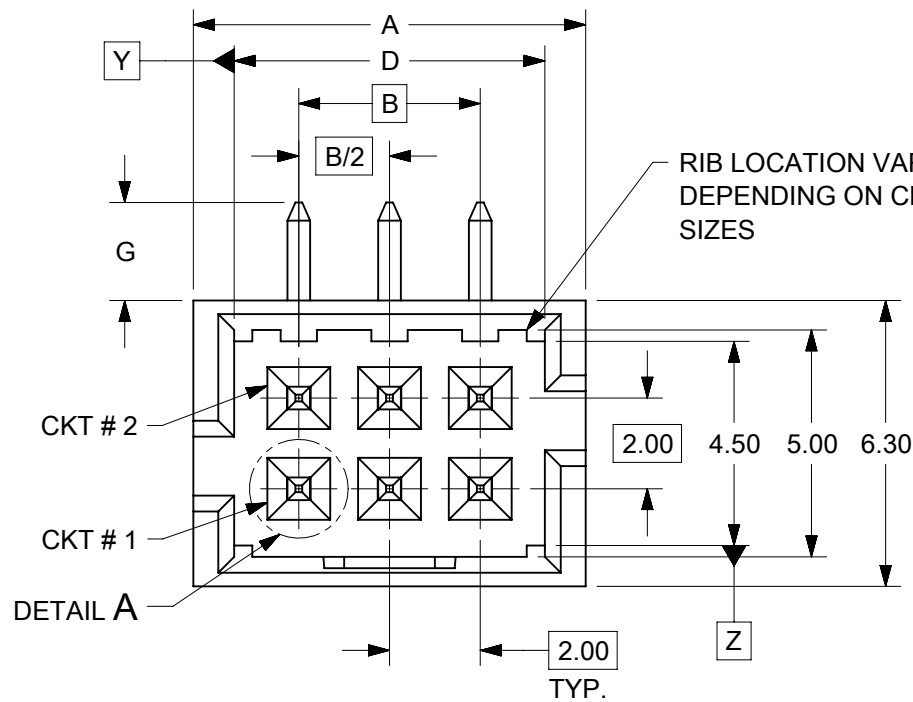


CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	②CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

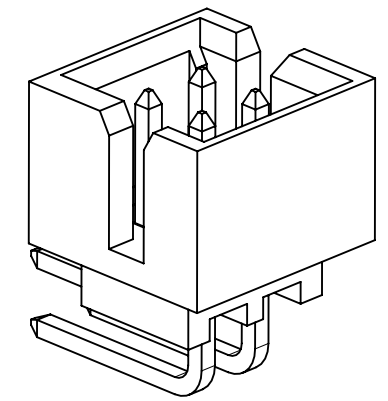
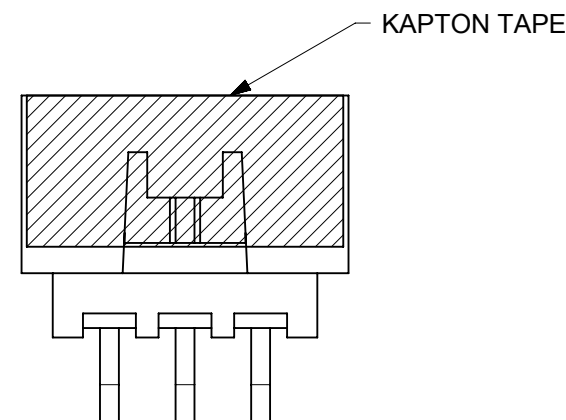
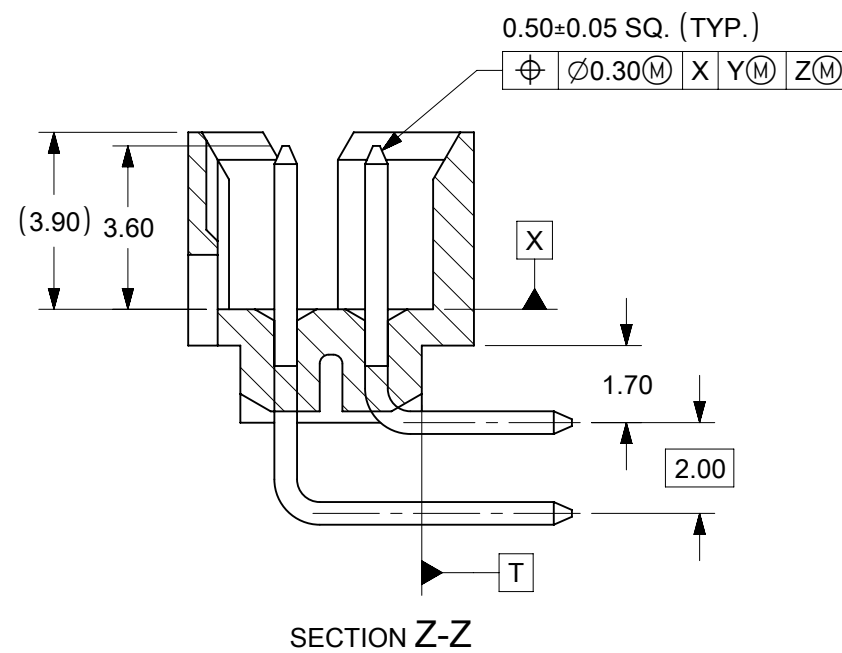
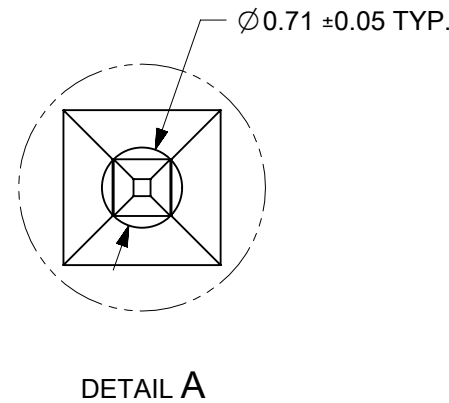
PACKAGING SPECIFICATION TABLE

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

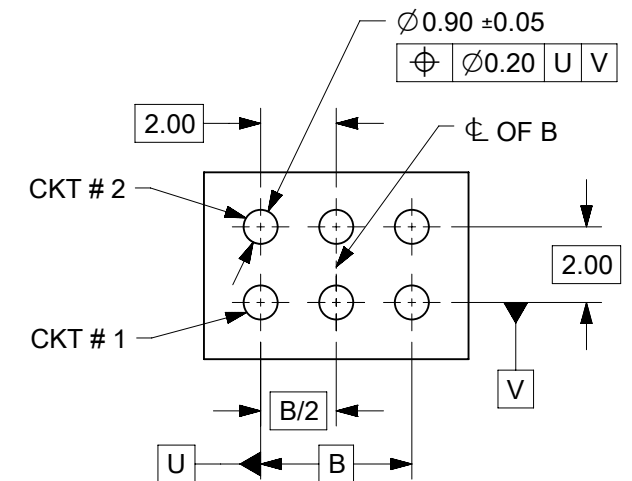
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
EC NO: 727481 DRWN: DANUSA CHK'D: DANUSA REV APPR: MIRAMAKRISHNA	2022/11/07 2022/11/07 2022/11/07	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex® MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE								
			MM	INCH	DRWN BY		DATE										
		4 PLACES	±	±	GMENARLY		2015/09/29										
					3 PLACES	±	±	CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING					
					2 PLACES	± 0.2	±	CGOH		2015/10/30							
					1 PLACES	±	±	APPR BY		DATE							
					0 PLACES	±	±	KHLIM		2015/11/03		SERIES		MATERIAL NUMBER		CUSTOMER	
		ANGULAR TOL ± 3.0			DRAWING SIZE		THIRD ANGLE PROJECTION		87833		SEE TABLE		GENERAL MARKET				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3				DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER		
		A14		REV						SD-87833-0001		PSD		001		1 OF 9	



4 TO 6 CIRCUITS



ISO VIEW OF HEADER
DUAL SIDE SLOTS



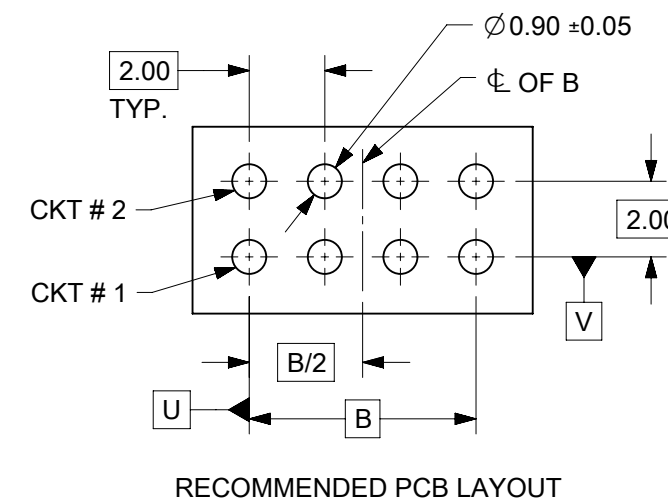
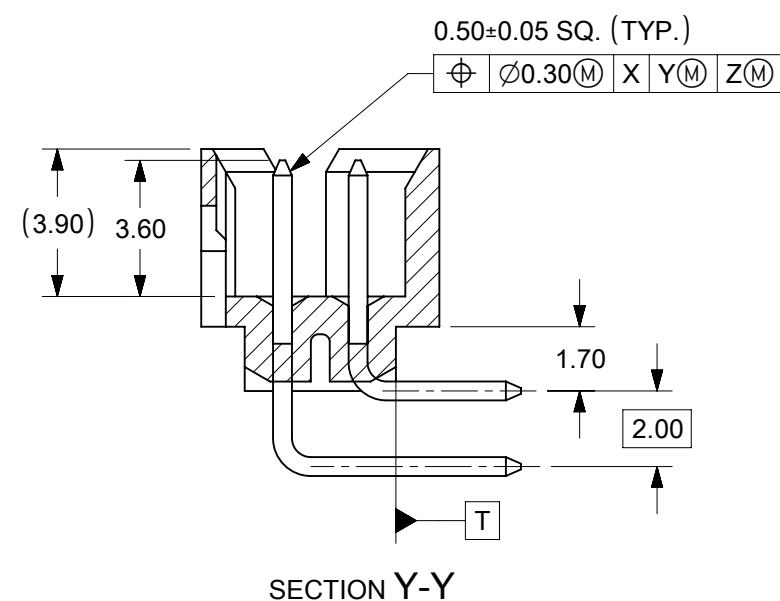
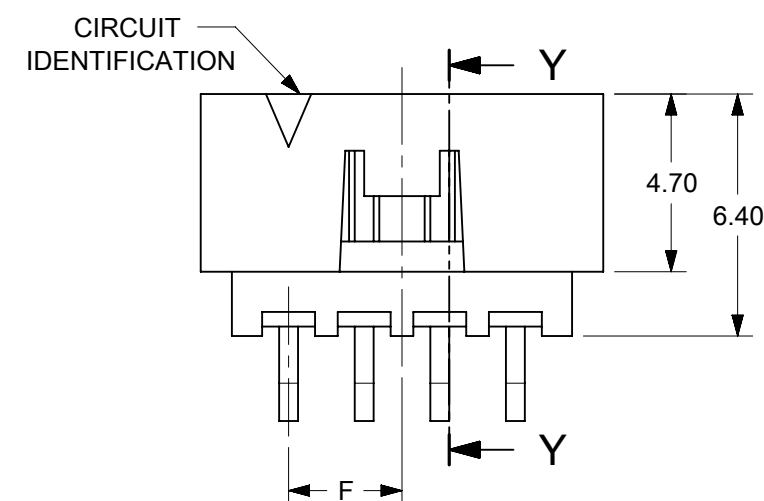
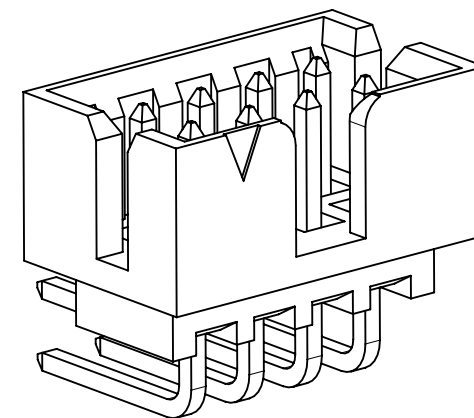
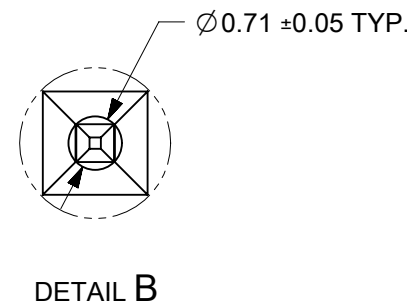
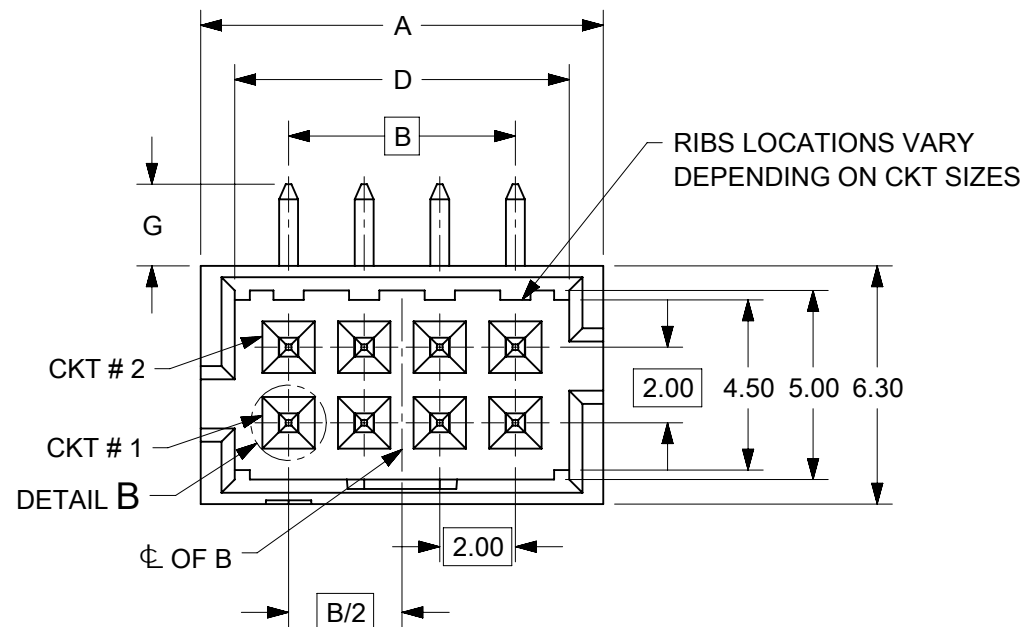
RECOMMENDED PCB LAYOUT

NOTES:

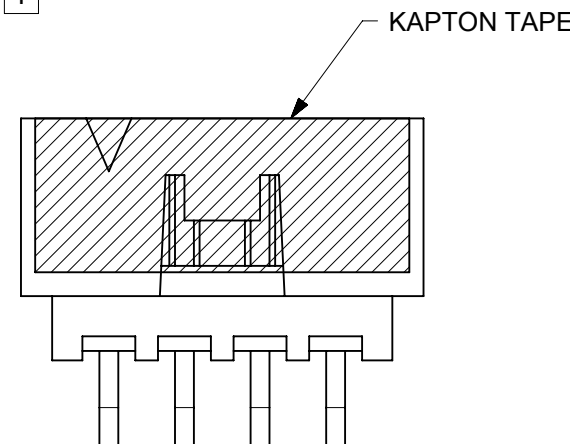
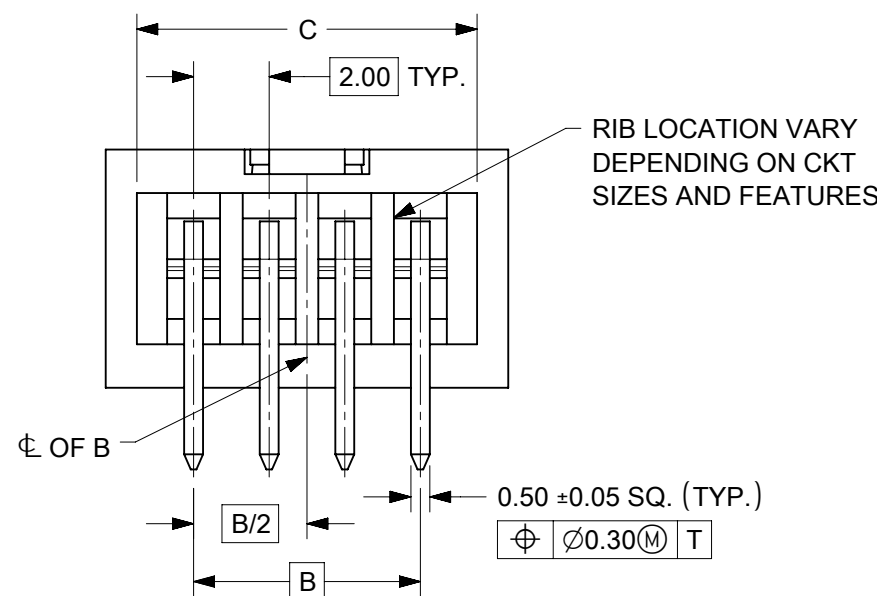
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK.
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
2. FINISHES: REFER TO PLATING OPTIONS.
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND 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.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
EC NO: 727481 DRWN: DANUSA CHK'D: DANUSA REV APPR: MIRAMAKRISHNA	2022/11/07 2022/11/07 2022/11/07	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex® MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE								
			MM	INCH	MM		NTS										
		4 PLACES	±		±	GMENARLY		2015/09/29									
		3 PLACES	±		±	CHK'D BY		DATE									
		2 PLACES	± 0.2		±	CGOH		2015/10/30									
		1 PLACES	±		±	APPR BY		DATE									
		0 PLACES	±		±	KHLIM		2015/11/03		PRODUCT CUSTOMER DRAWING							
		ANGULAR TOL ± 3.0			DRAWING SIZE		THIRD ANGLE PROJECTION			SERIES		MATERIAL NUMBER			CUSTOMER		
					A3					87833		SEE TABLE			GENERAL MARKET		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								DOCUMENT NUMBER			DOC TYPE		DOC PART		SHEET NUMBER
								SD-87833-0001			PSD		001		2 OF 9		

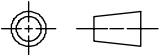
8 TO 12 CIRCUITS



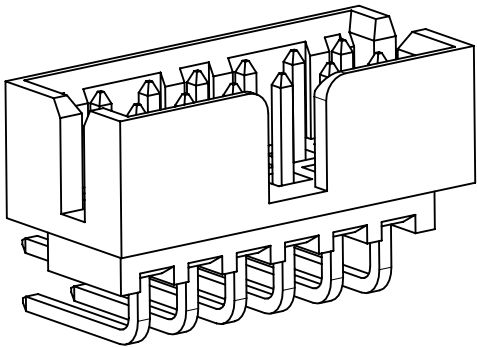
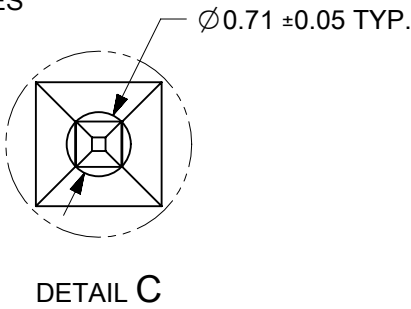
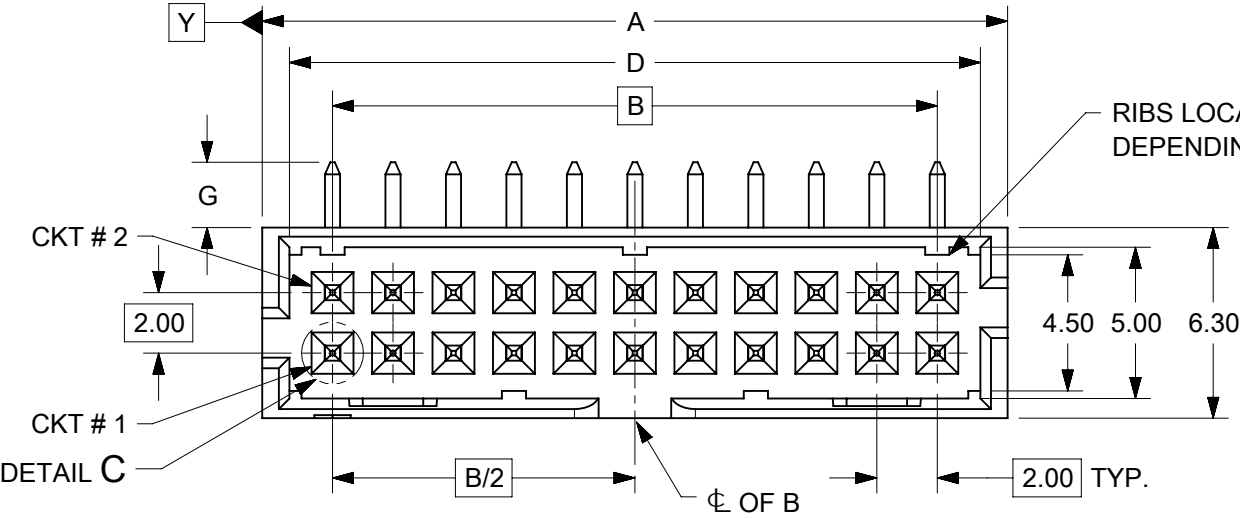
- NOTES:
- MATERIALS:
 HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
 PIN: 0.50mm SQ. PHOSPHOR BRONZE.
 - FINISHES: REFER TO PLATING OPTIONS.
 - PRODUCT SPECIFICATION: PS-87831-027
 - PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
 - MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 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.



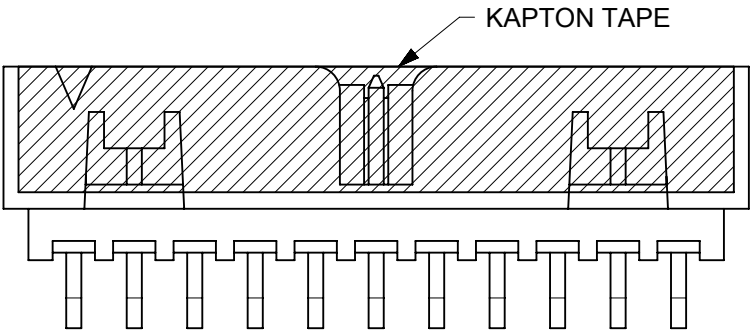
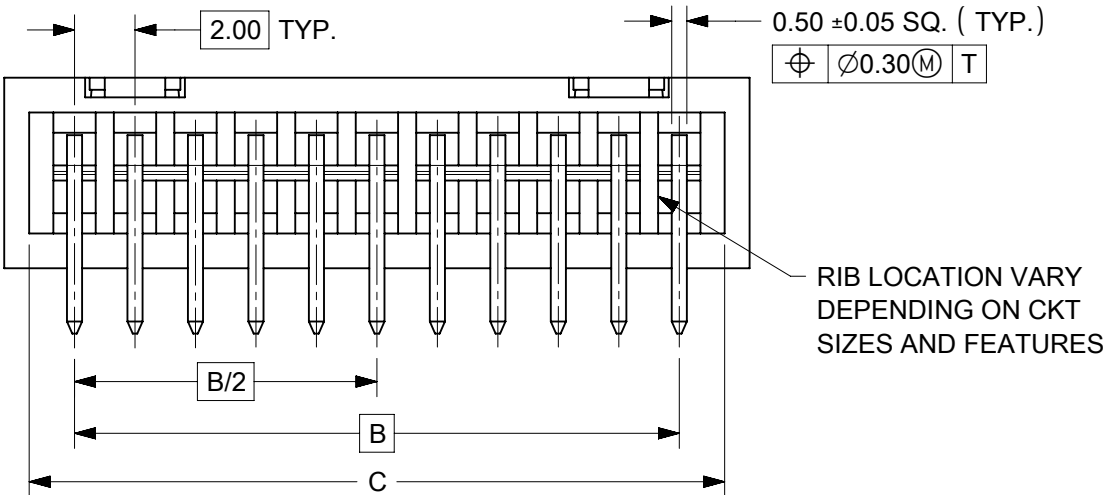
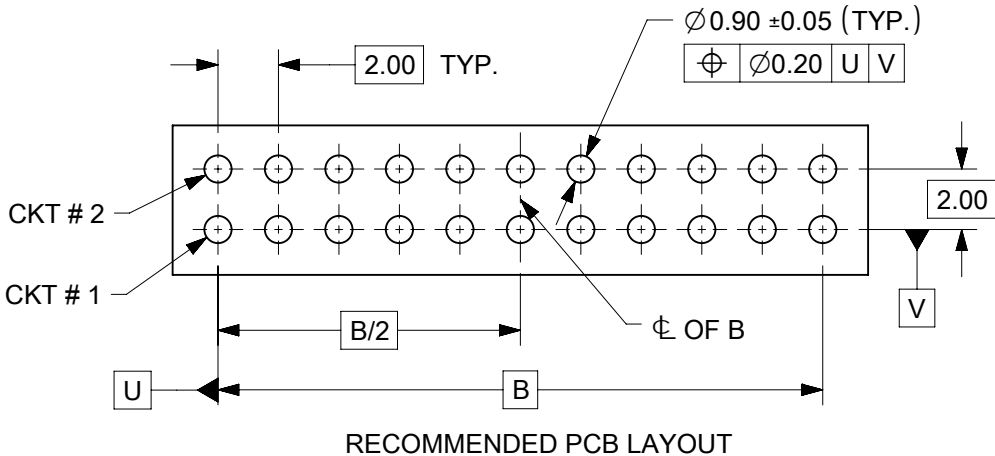
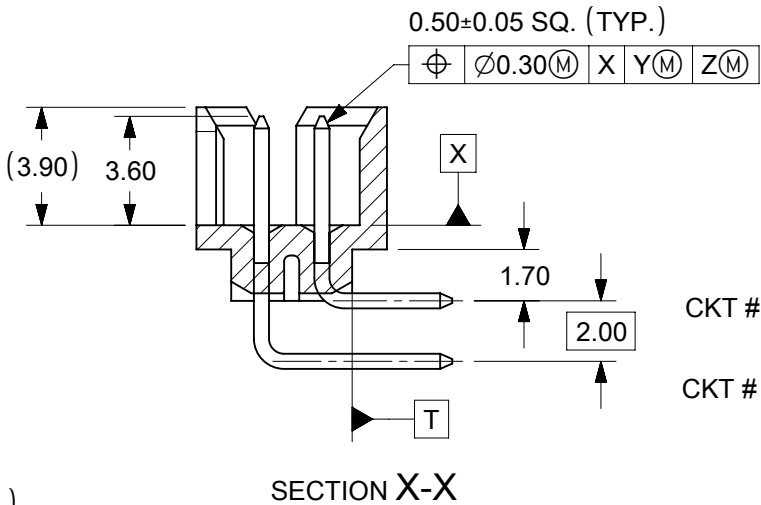
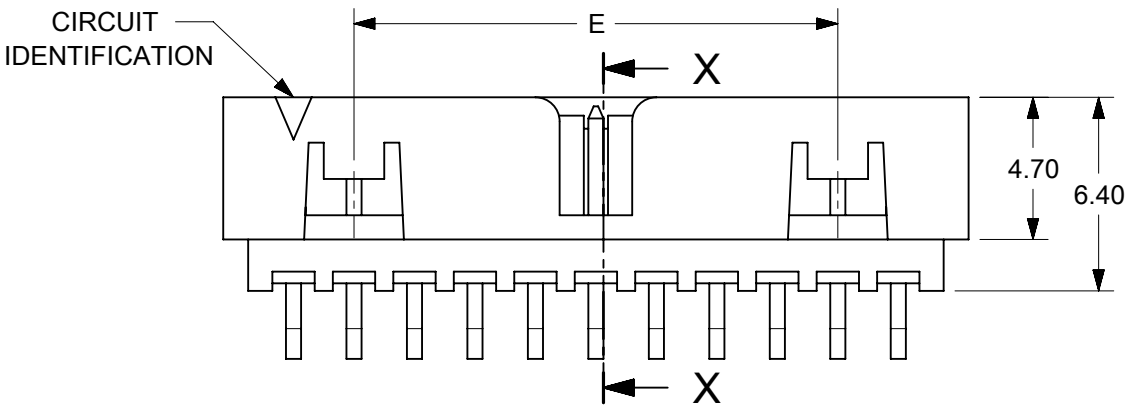
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 727481 DRWN: DANUSA CHK'D: DANUSA APPR: MIRAMAKRISHNA	2022/11/07	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex®							
	2022/11/07		MM	INCH	MM		NTS									
	2022/11/07	4 PLACES	±	±	DRWN BY		DATE		MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE							
		3 PLACES	±	±	GMENARLY		2015/09/29									
		2 PLACES	± 0.2	±	CHK'D BY		DATE									
		1 PLACES	±	±	CGOH		2015/10/30									
		0 PLACES	±	±	APPR BY		DATE									
		ANGULAR TOL ± 3.0			KHLIM		2015/11/03		PRODUCT CUSTOMER DRAWING							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWING SIZE		THIRD ANGLE PROJECTION						SERIES		MATERIAL NUMBER	
	A14	REV				A3				87833		SEE TABLE		GENERAL MARKET		
									DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
									SD-87833-0001		PSD		001		4 OF 9	

14 TO 50 CIRCUITS



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, 22 CIRCUITS HEADER IS SHOWN.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
EC NO: 727481 DRWN: DANUSA CHK'D: DANUSA REV APPR: MRAMAKRISHNA	2022/11/07 2022/11/07 2022/11/07	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex®				
			MM	INCH	MM		NTS						
		4 PLACES	±	±	DRWN BY		DATE		MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE				
		3 PLACES	±	±	GMENARLY		2015/09/29						
		2 PLACES	± 0.2	±	CHK'D BY		DATE						
		1 PLACES	±	±	CGOH		2015/10/30						
		0 PLACES	±	±	APPR BY		DATE						
		ANGULAR TOL ± 3.0			KHLIM		2015/11/03		PRODUCT CUSTOMER DRAWING				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWING SIZE		THIRD ANGLE PROJECTION						
		A3					SERIES		MATERIAL NUMBER		CUSTOMER		
A14			REV		87833		SEE TABLE		GENERAL MARKET				
					DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER		
					SD-87833-0001		PSD		001		6 OF 9		

9		8		7		6		5		4		3		2		1																																																																																																																																	
14 TO 24 CIRCUITS																																																																																																																																																	
E	CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	ASSY. P/N WITHOUT KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER	DIMENSION																																																																																																																																						
							DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)																																																																																																																																
	14	87833-1419	N.A	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	N.A	2																																																																																																																																											
		87833-1421	N.A	N.A	N.A	3																																																																																																																																											
		87833-5320	N.A	N.A	N.A	2	YES	N.A	YES	YES							3.18																																																																																																																																
		87833-5321	N.A	N.A	N.A	3																																																																																																																																											
		87833-1436	N.A	N.A	N.A	3												YES	N.A	YES	YES	1.70																																																																																																																											
N.A		N.A	87833-7420	N.A	2																																																																																																																																												
D	16	87833-1619	N.A	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	N.A	2																																																																																																																																											
		87833-1621	N.A	87833-7821	N.A	3											YES	N.A	YES	YES	3.18																																																																																																																												
		87833-6120	N.A	87833-7120	N.A	2																																																																																																																																											
C	18	87833-1819	N.A	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	N.A	2																																																																																																																																											
		87833-1821	N.A	N.A	N.A	3											YES	N.A	YES	YES	3.18																																																																																																																												
		87833-6220	N.A	N.A	N.A	2																																																																																																																																											
B	20	87833-2019	N.A	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	N.A	2																																																																																																																																											
		87833-2021	N.A	N.A	N.A	3											YES	N.A	YES	YES	3.18																																																																																																																												
		87833-6520	N.A	N.A	N.A	2																																																																																																																																											
		87833-6521	N.A	N.A	(A14) 87833-2037	3	YES	N.A	YES	YES												3.50																																																																																																																											
		87833-2036	N.A	N.A	N.A	3																																																																																																																																											
A	22	87833-2219	N.A	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	N.A	2																																																																																																																																											
		87833-2221	N.A	N.A	N.A	3																																																																																																																																											
A	24	87833-2419	N.A	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	N.A	2																																																																																																																																											
		87833-2421	N.A	N.A	N.A	3											YES	N.A	YES	YES	2.00																																																																																																																												
		87833-7320	N.A	N.A	N.A	2																																																																																																																																											
		87833-2436	N.A	N.A	N.A	3	YES	N.A	YES	YES												3.50																																																																																																																											
		87833-6920	N.A	N.A	N.A	2																																																																																																																																											
PLATING OPTIONS: 1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 2 - 0.38µm/15µin MIN. GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 3 - 0.76µm/30µin MIN. GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																																																																																																																																																	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION <table><tr><td rowspan="10">EC NO: 727481 DRWN: DANUSA CHK'D: DANUSA REV APPR: MIRAMAKRISHNA 2022/11/07 2022/11/07 2022/11/07</td><td colspan="3">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION UNITS</td><td colspan="2">SCALE</td><td colspan="5" rowspan="2"> molex® </td></tr><tr><td></td><td>MM</td><td>INCH</td><td colspan="2">MM</td><td colspan="2">NTS</td></tr><tr><td>4 PLACES</td><td>±</td><td>±</td><td colspan="2">DRWN BY</td><td colspan="2">DATE</td><td colspan="5" rowspan="4">MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE</td></tr><tr><td colspan="3"></td><td colspan="2">GMENARLY</td><td colspan="2">2015/09/29</td></tr><tr><td>3 PLACES</td><td>±</td><td>±</td><td colspan="2">CHK'D BY</td><td colspan="2">DATE</td></tr><tr><td colspan="3"></td><td colspan="2">CGOH</td><td colspan="2">2015/10/30</td></tr><tr><td>2 PLACES</td><td>± 0.2</td><td>±</td><td colspan="2">APPR BY</td><td colspan="2">DATE</td><td colspan="5" rowspan="2">PRODUCT CUSTOMER DRAWING</td></tr><tr><td colspan="3"></td><td colspan="2">KHLIM</td><td colspan="2">2015/11/03</td></tr><tr><td>0 PLACES</td><td>±</td><td>±</td><td colspan="2">DRAWING SIZE</td><td colspan="2">THIRD ANGLE PROJECTION</td><td colspan="2">SERIES</td><td colspan="2">MATERIAL NUMBER</td><td colspan="2">CUSTOMER</td></tr><tr><td colspan="3">ANGULAR TOL ± 3.0</td><td colspan="2">A3</td><td colspan="2"></td><td colspan="2">87833</td><td colspan="2">SEE TABLE</td><td colspan="2">GENERAL MARKET</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">DOCUMENT NUMBER</td><td colspan="2">DOC TYPE</td><td colspan="2">DOC PART</td><td colspan="2">SHEET NUMBER</td></tr><tr><td colspan="3"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">SD-87833-0001</td><td colspan="2">PSD</td><td colspan="2">001</td><td colspan="2">7 OF 9</td></tr></table>																		EC NO: 727481 DRWN: DANUSA CHK'D: DANUSA REV APPR: MIRAMAKRISHNA 2022/11/07 2022/11/07 2022/11/07	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex®						MM	INCH	MM		NTS		4 PLACES	±	±	DRWN BY		DATE		MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE								GMENARLY		2015/09/29		3 PLACES	±	±	CHK'D BY		DATE					CGOH		2015/10/30		2 PLACES	± 0.2	±	APPR BY		DATE		PRODUCT CUSTOMER DRAWING								KHLIM		2015/11/03		0 PLACES	±	±	DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER		ANGULAR TOL ± 3.0			A3				87833		SEE TABLE		GENERAL MARKET		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER									SD-87833-0001		PSD		001		7 OF 9	
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