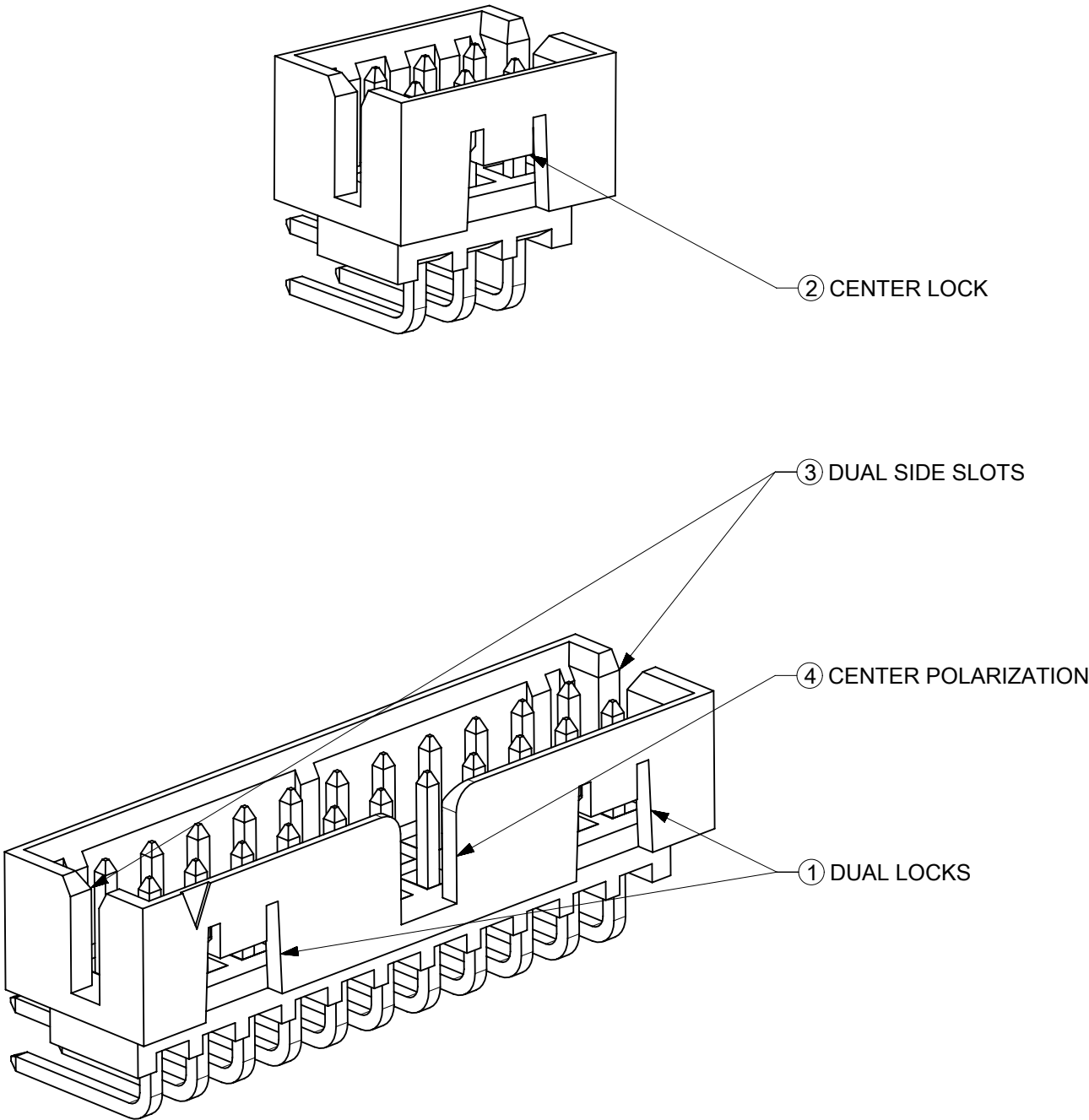


FEATURES SELECTION GUIDE



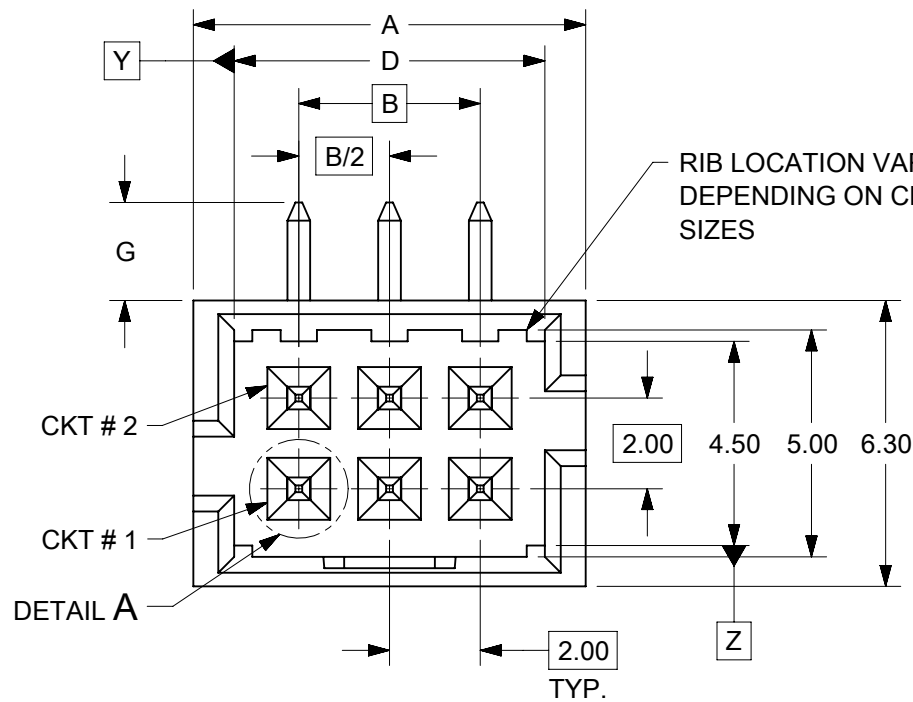
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	②CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

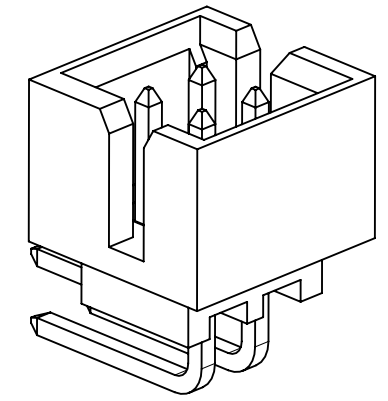
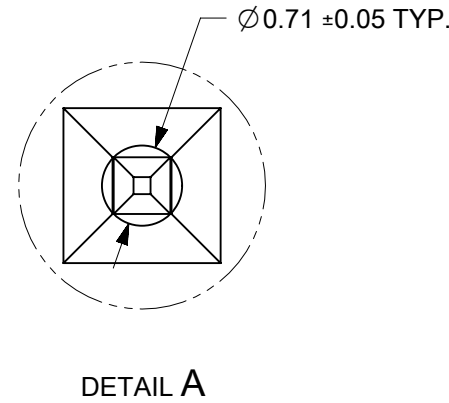
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TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
EC NO: 718010 DRWN: DANUSA CHK'D: DANUSA APPR: MRAMAKRISHNA	2022/08/26 2022/09/19 2022/09/19	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 87833 SEE TABLE GENERAL MARKET							
		ANGULAR TOL ± 3.0			DRAWING SIZE		THIRD ANGLE PROJECTION									
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3											
A13	REV	DOCUMENT NUMBER DOC TYPE DOC PART SHEET NUMBER SD-87833-0001 PSD 001 1 OF 9														

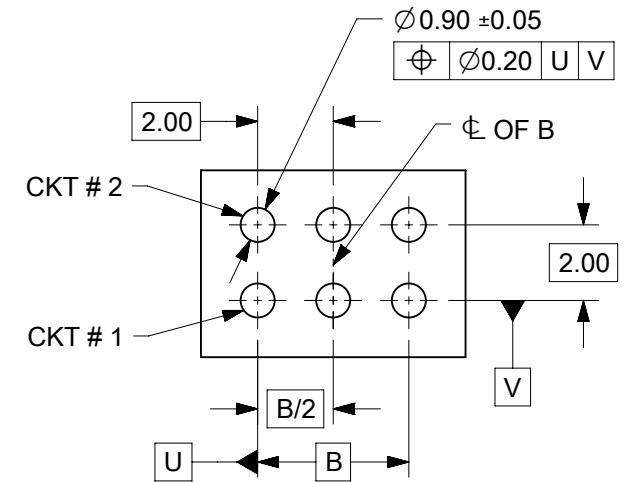
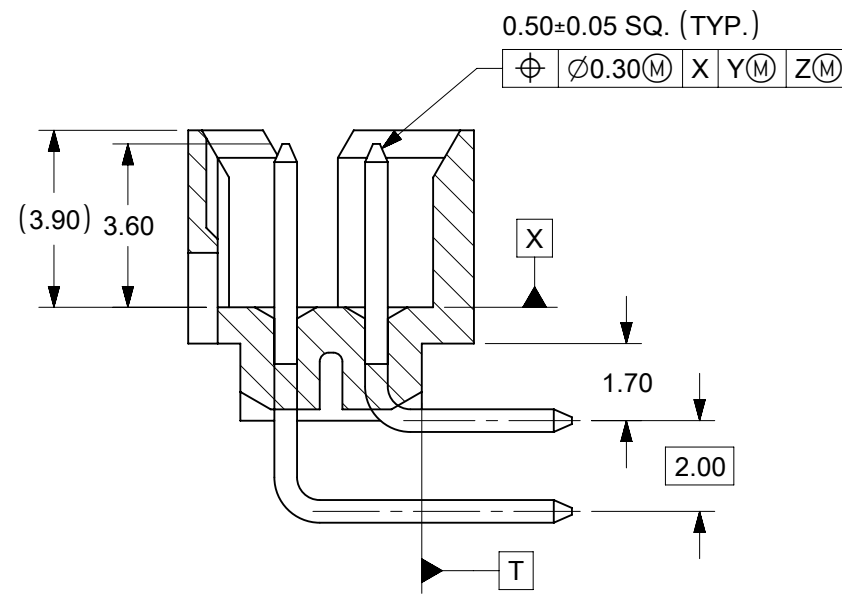
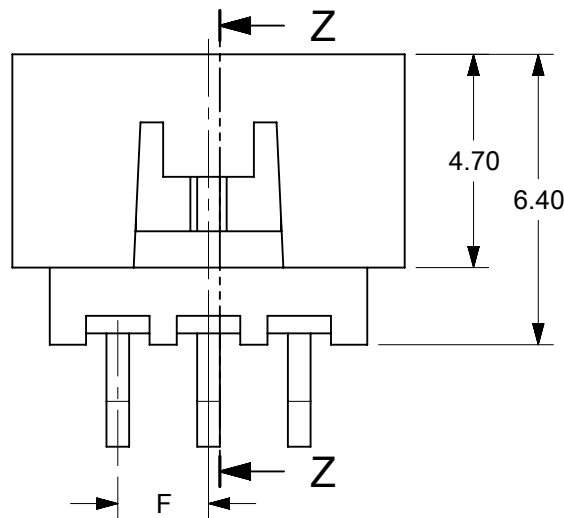
RELEASE STATUS	P1	RELEASE DATE	2022/09/19	07:59:04
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4 TO 6 CIRCUITS



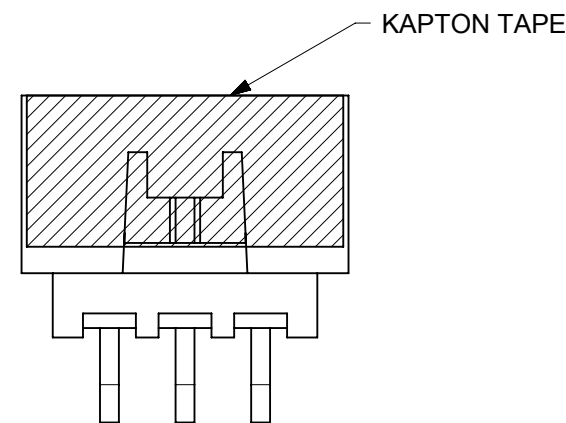
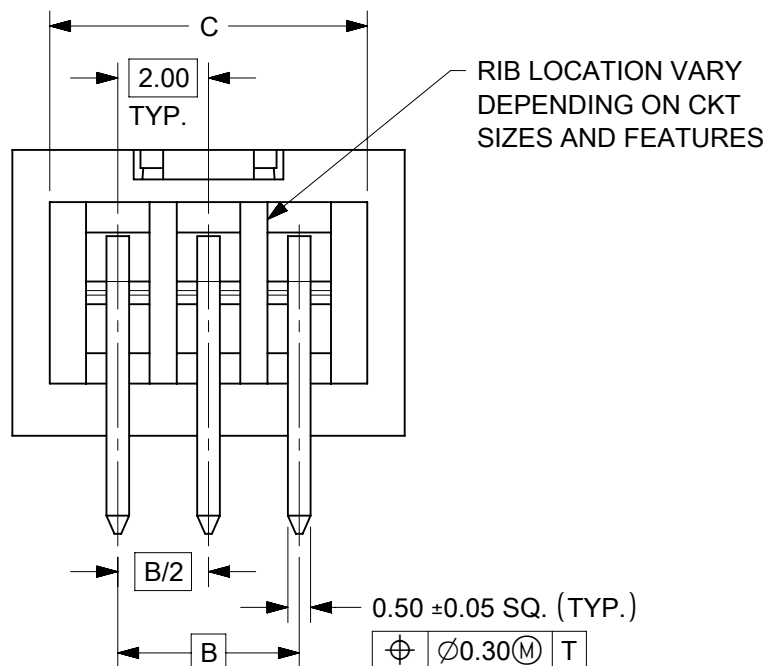
ISO VIEW OF HEADER
DUAL SIDE SLOTS



RECOMMENDED PCB LAYOUT

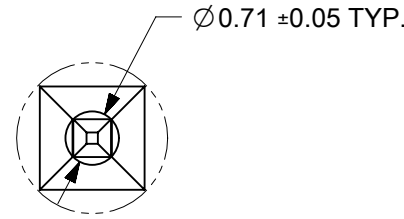
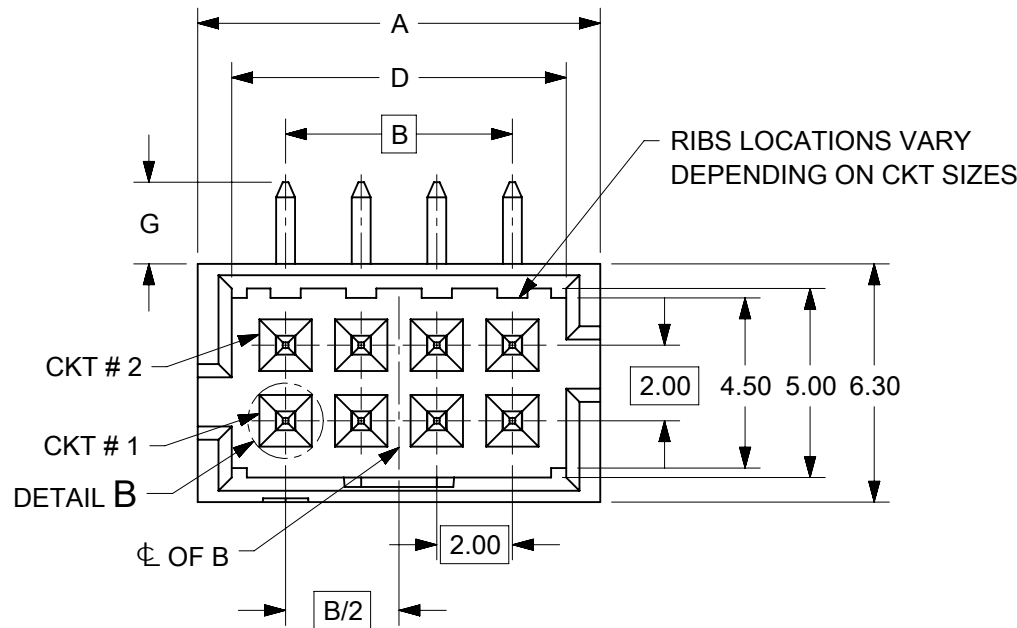
NOTES:

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.

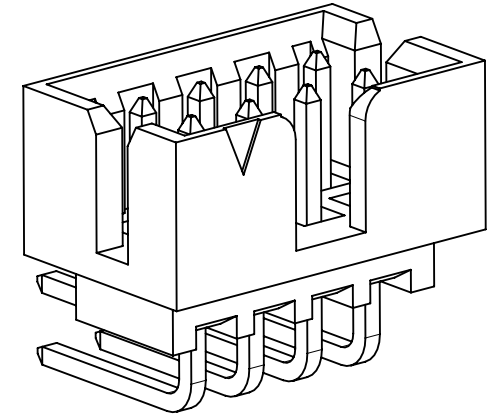


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EC NO: 718010 DRWN: DANUSA CHK'D: DANUSA REV APPR: MRAMAKRISHNA	2022/08/26 2022/09/19 2022/09/19	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex®						
					MM		NTS								
				MM	INCH	DRWN BY		DATE		MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE					
			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							
						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				

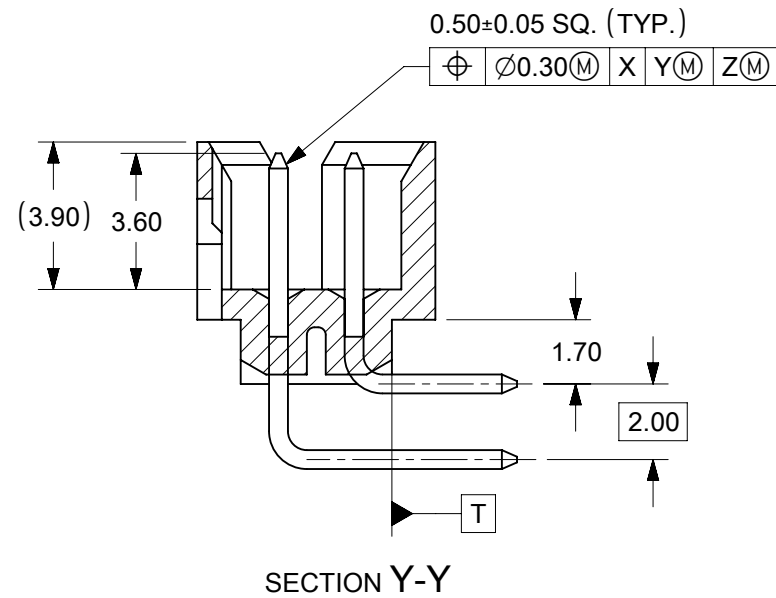
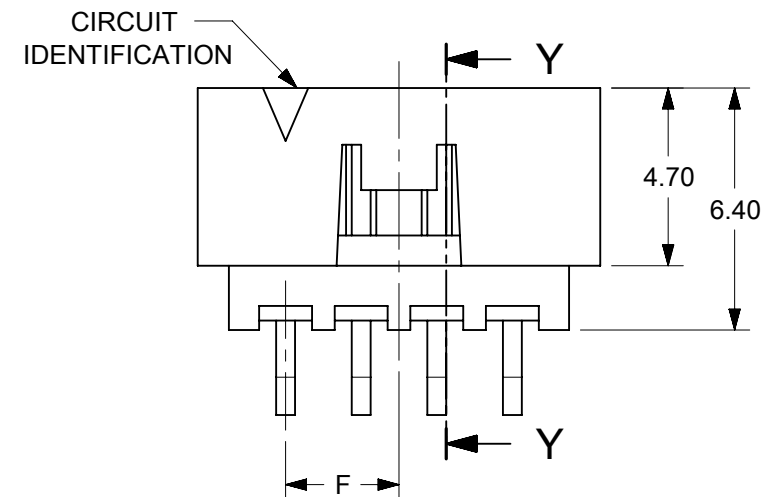
8 TO 12 CIRCUITS



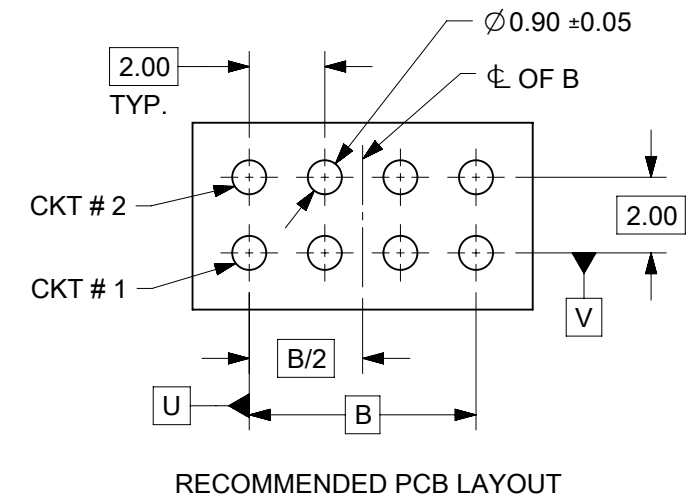
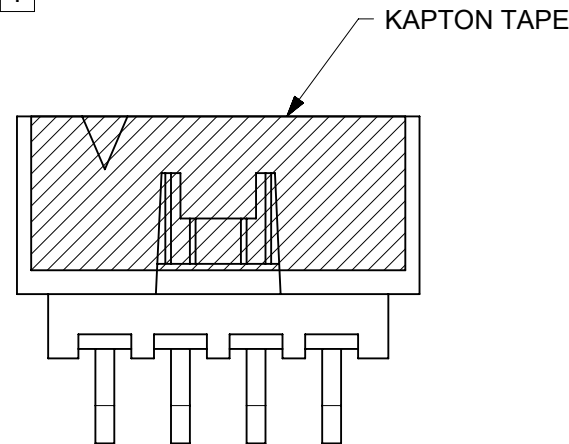
DETAIL B



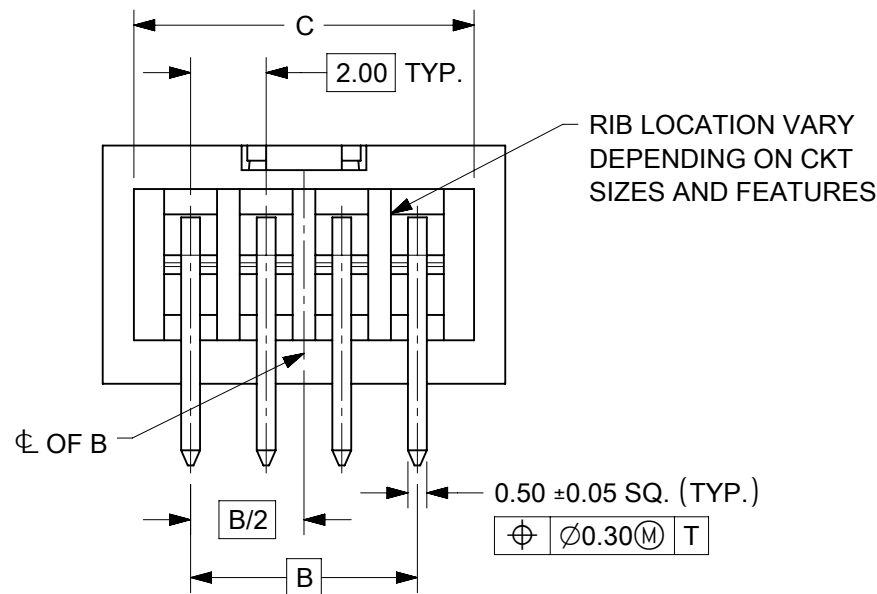
ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



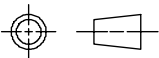
SECTION Y-Y

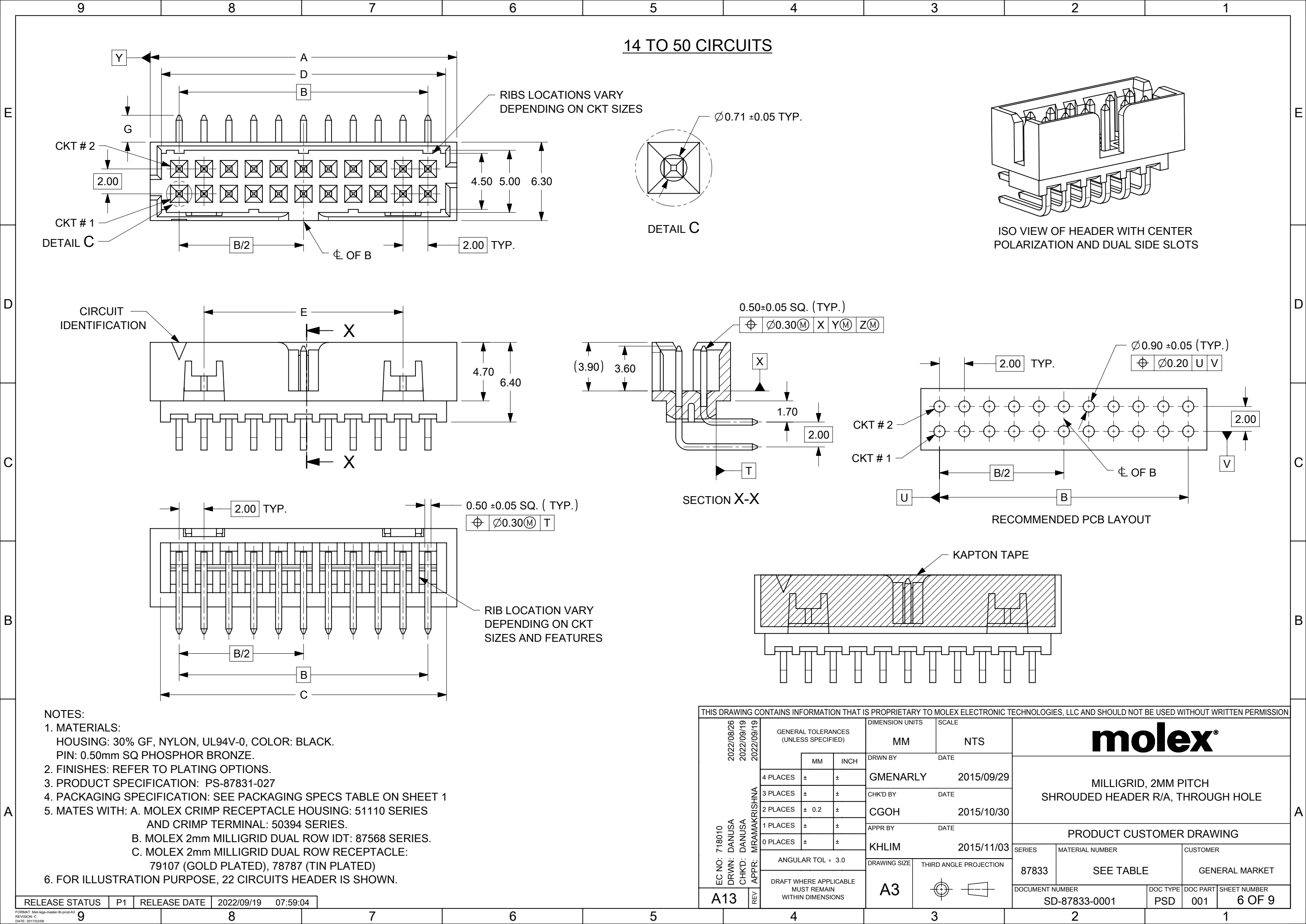


- NOTES:
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
 2. FINISHES: REFER TO PLATING OPTIONS.
 3. PRODUCT SPECIFICATION: PS-87831-027
 4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
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C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
 6. FOR ILLUSTRATION PURPOSE, 8 CIRCUIT HEADER IS SHOWN.



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EC NO: 718010 DRWN: DANUSA CHKD: DANUSA REV / APPR: MRAMAKRISHNA	2022/08/26 2022/09/19 2022/09/19	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					
		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					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3		87833	SEE TABLE	GENERAL MARKET		
		A13	REV				DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER
				SD-87833-0001		PSD	001	4 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	3.50																																																																																																																																							
N.A	N.A	87833-7420	N.A	2	YES	N.A	YES	YES	1.70																																																																																																																																																				
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	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	YES	N.A	YES	YES							3.27																																																																																																																																												
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: 718010 DRWN: DANUSA CHK'D: DANUSA 2022/08/26 2022/09/19 2022/09/19</td><td rowspan="10">REV</td><td colspan="3">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION UNITS</td><td colspan="2">SCALE</td><td colspan="4" rowspan="2">molex®</td></tr><tr><td></td><td>MM</td><td>INCH</td><td>MM</td><td>NTS</td></tr><tr><td>4 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">DRWN BY</td><td colspan="2">DATE</td><td colspan="4" rowspan="4">MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE</td></tr><tr><td>3 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">GMENARLY</td><td colspan="2">2015/09/29</td></tr><tr><td>2 PLACES</td><td>±</td><td>0.2</td><td>±</td><td colspan="2">CHK'D BY</td><td colspan="2">DATE</td></tr><tr><td>1 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">CGOH</td><td colspan="2">2015/10/30</td></tr><tr><td>0 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">APPR BY</td><td colspan="2">DATE</td><td colspan="4" rowspan="2">PRODUCT CUSTOMER DRAWING</td></tr><tr><td colspan="3">ANGULAR TOL ± 3.0</td><td colspan="2">KHLIM</td><td colspan="2">2015/11/03</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</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="2">A13</td><td></td><td colspan="3"></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="4">RELEASE STATUS</td><td>P1</td><td colspan="2">RELEASE DATE</td><td colspan="2">2022/09/19 07:59:04</td><td colspan="4">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="4"></td><td></td><td colspan="2"></td><td colspan="2"></td><td colspan="4">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: 718010 DRWN: DANUSA CHK'D: DANUSA 2022/08/26 2022/09/19 2022/09/19	REV	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		PRODUCT CUSTOMER DRAWING				ANGULAR TOL ± 3.0			KHLIM		2015/11/03		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER		A13						A3				87833		SEE TABLE		GENERAL MARKET		RELEASE STATUS				P1	RELEASE DATE		2022/09/19 07:59:04		DOCUMENT NUMBER				DOC TYPE		DOC PART		SHEET NUMBER											SD-87833-0001				PSD		001		7 OF 9	
EC NO: 718010 DRWN: DANUSA CHK'D: DANUSA 2022/08/26 2022/09/19 2022/09/19	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex®																																																																																																																																																				
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9		8		7		6		5		4		3		2		1																																																																																																																																													

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