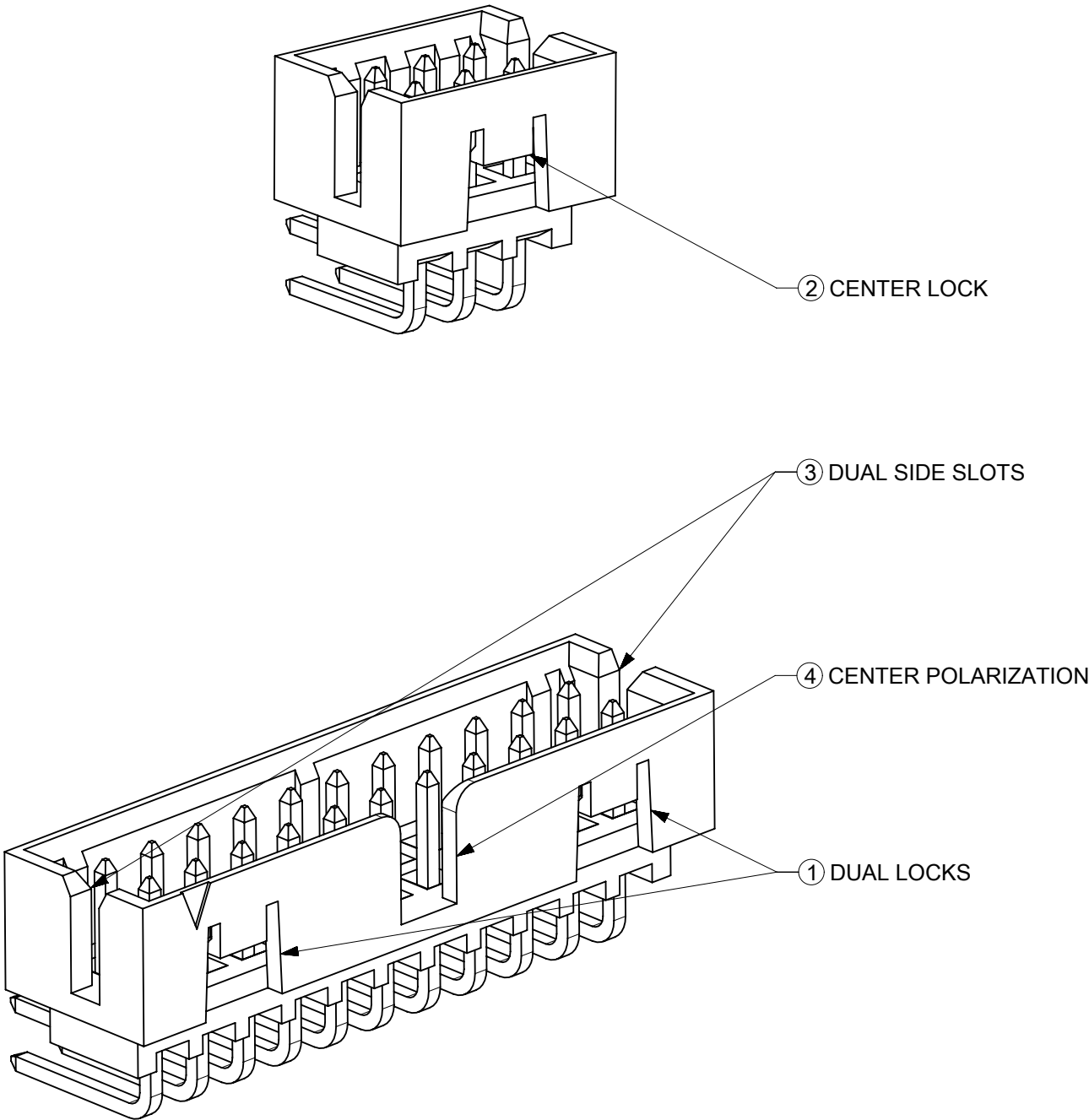


FEATURES SELECTION GUIDE



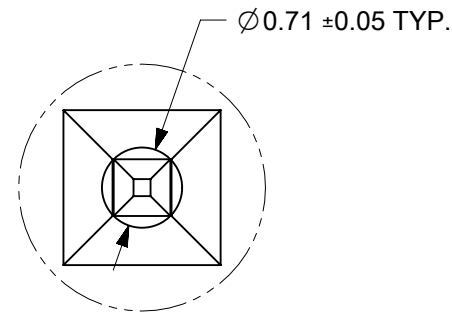
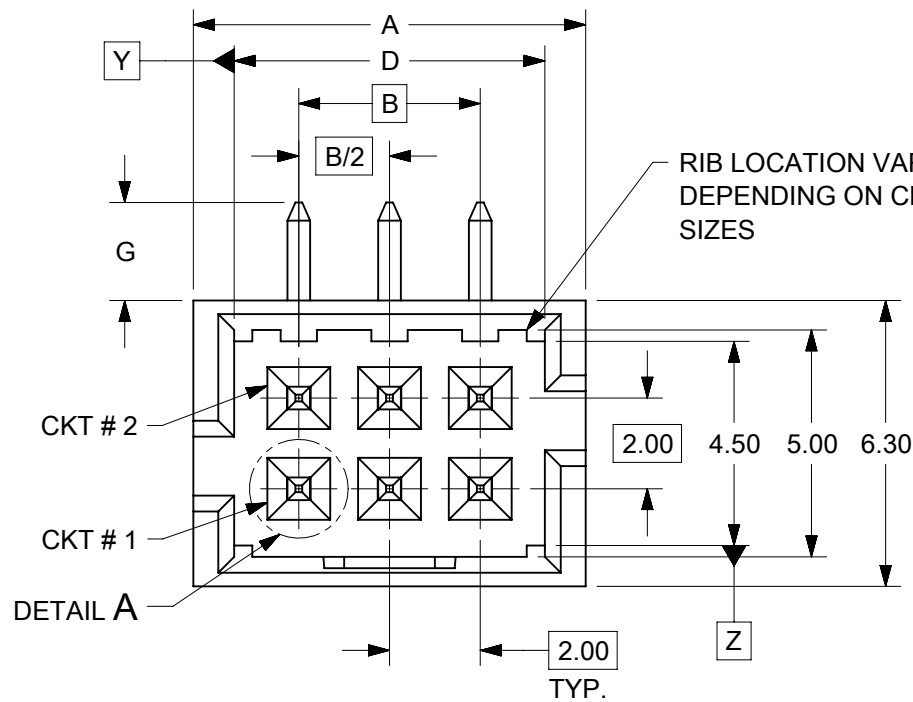
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	②CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

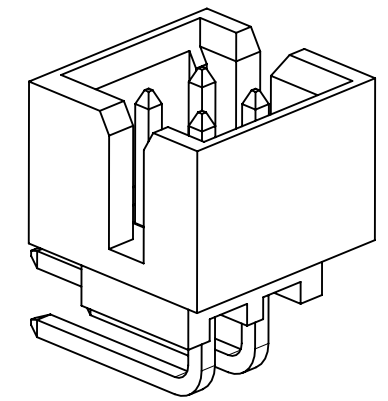
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
EC NO: 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									
							CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING					
		3 PLACES	±	±	CGOH		2015/10/30									
		2 PLACES	± 0.2	±	APPR BY		DATE									
		1 PLACES	±	±	KHLIM		2015/11/03		SERIES 87833 MATERIAL NUMBER SEE TABLE CUSTOMER GENERAL MARKET							
		0 PLACES	±	±	DRAWING SIZE		THIRD ANGLE PROJECTION									
		ANGULAR TOL ± 3.0			A3											
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														
A13	REV	DOCUMENT NUMBER SD-87833-0001 DOC TYPE PSD DOC PART 001 SHEET NUMBER 1 OF 9														

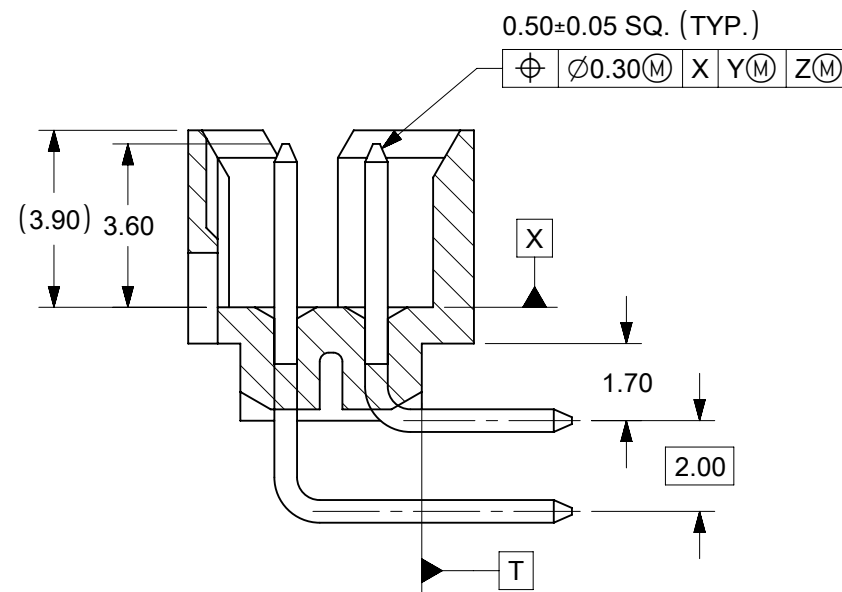
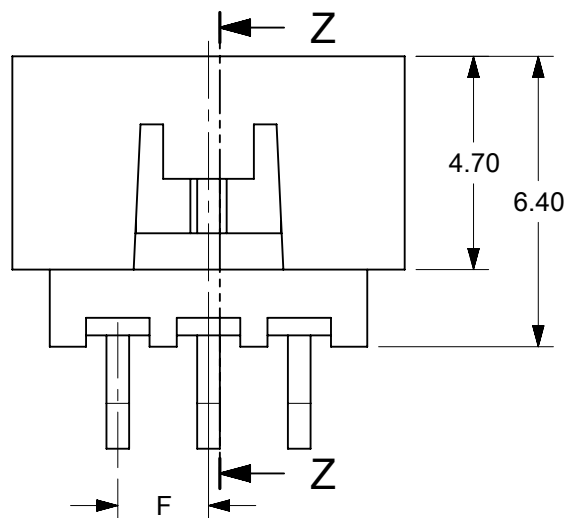
RELEASE STATUS	P1	RELEASE DATE	2022/09/19	07:59:04
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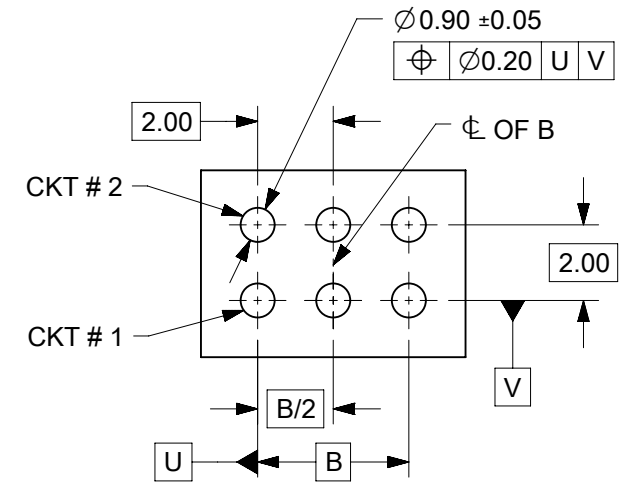
DETAIL A



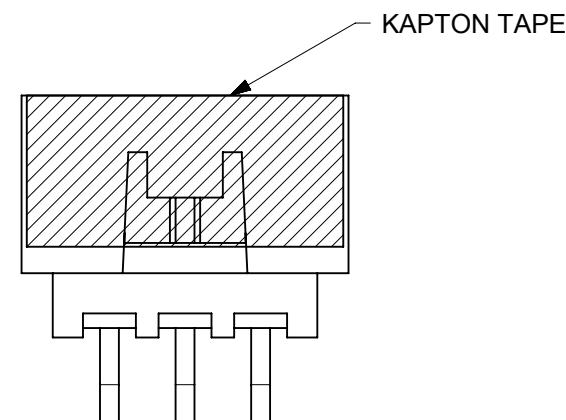
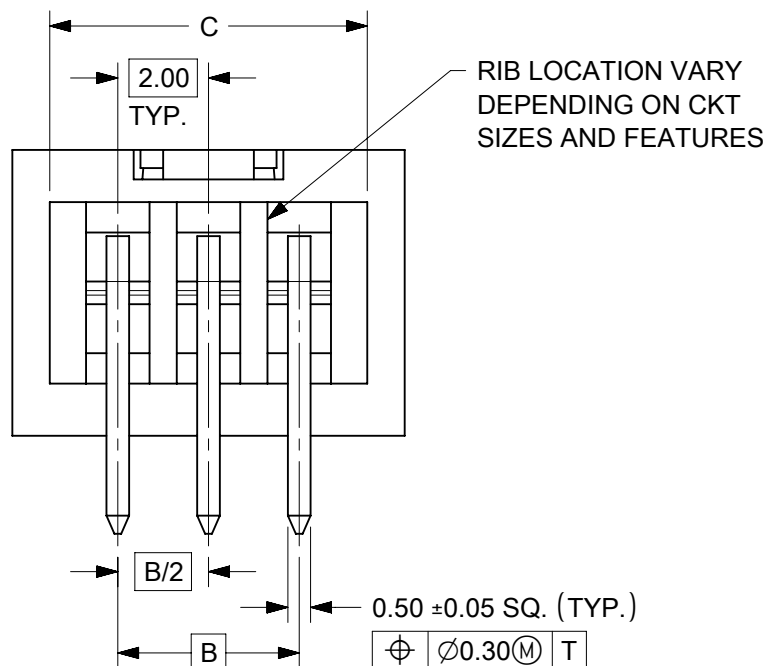
ISO VIEW OF HEADER
DUAL SIDE SLOTS



SECTION Z-Z



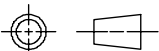
RECOMMENDED PCB LAYOUT



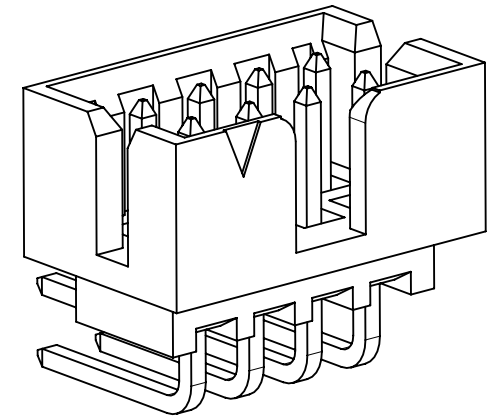
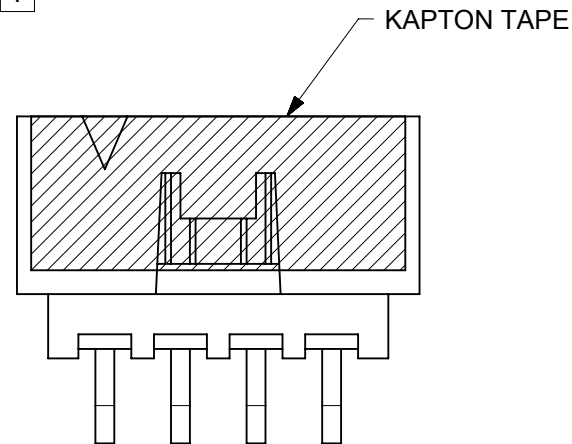
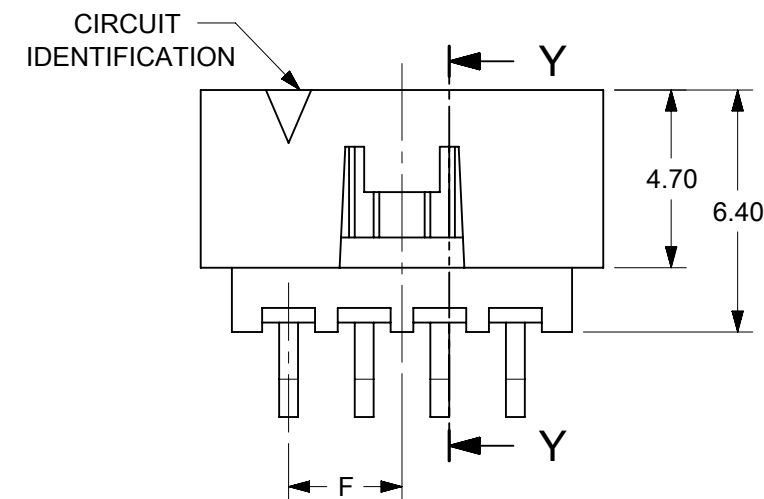
KAPTON TAPE

NOTES:

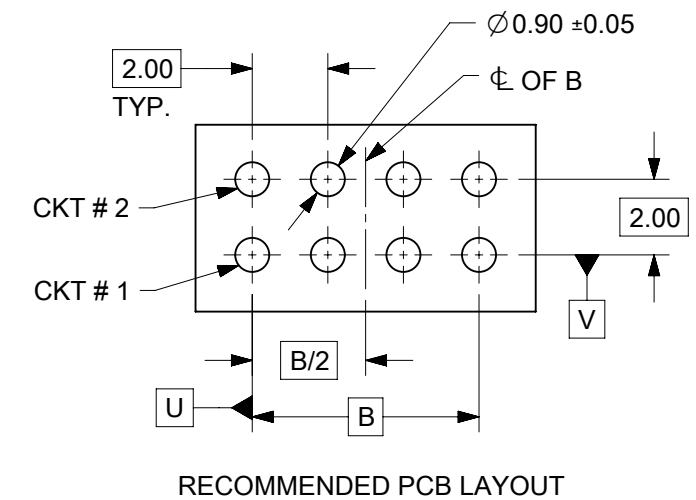
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK.
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
2. FINISHES: REFER TO PLATING OPTIONS.
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND 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: 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® MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE						
					MM		NTS								
			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								SERIES
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3				87833		SEE TABLE		GENERAL MARKET		
DOCUMENT NUMBER									DOC TYPE		DOC PART		SHEET NUMBER		
A13		REV						SD-87833-0001		PSD		001		2 OF 9	

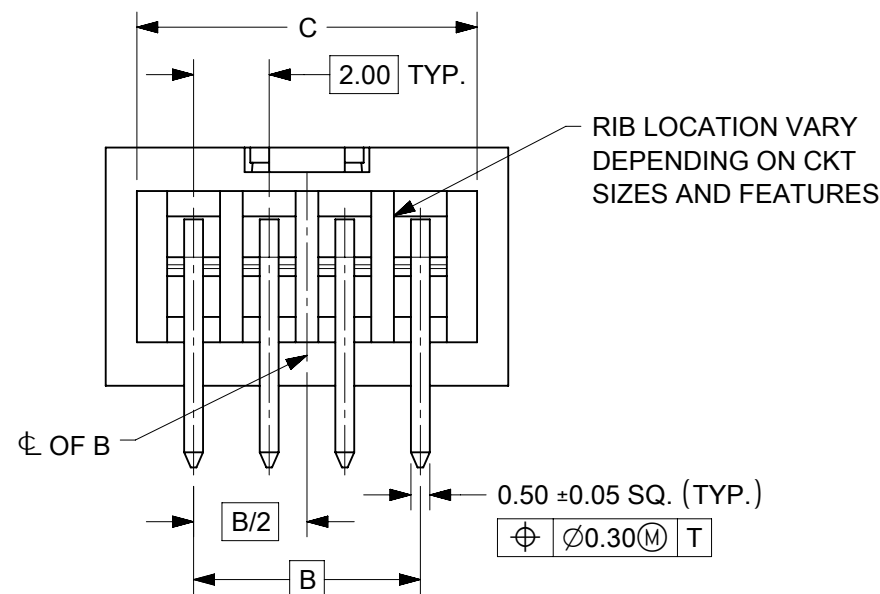
DETAIL B



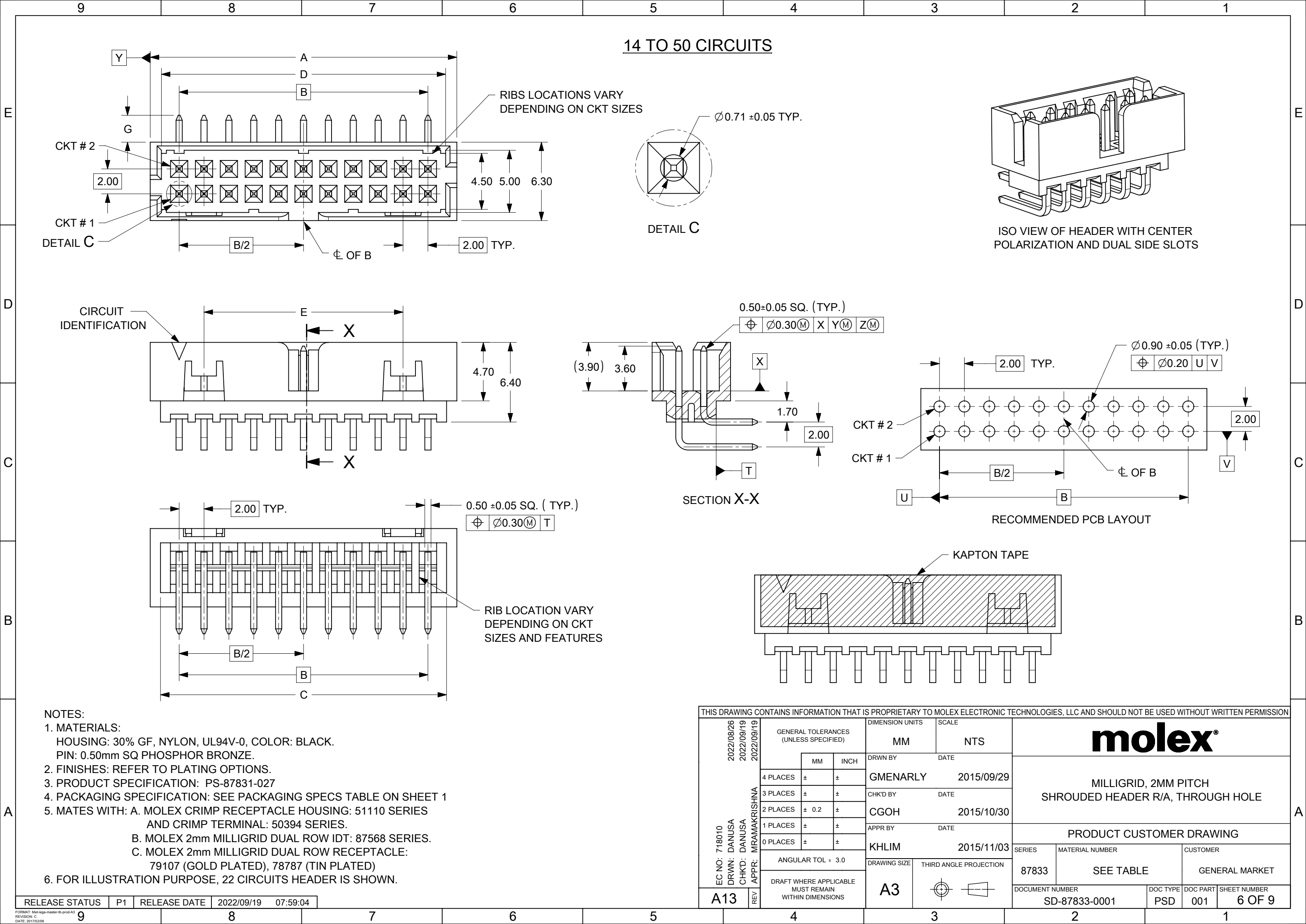
ISO VIEW OF HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS



- 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.



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: MIRAMAKRISHNA	2022/08/26	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex®							
	2022/09/19				MM		NTS									
	2022/09/19		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								SERIES	MATERIAL NUMBER	
	A13	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3			87833	SEE TABLE		GENERAL MARKET				
				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
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											3.18				
		87833-1621	N.A	87833-7821	N.A	3															
		87833-6120	N.A	87833-7120	N.A	2											YES	N.A	YES	YES	
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											3.18				
		87833-1821	N.A	N.A	N.A	3															
		87833-6220	N.A	N.A	N.A	2											YES	N.A	YES	YES	
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											YES	N.A	YES	YES	3.18
		87833-2021	N.A	N.A	N.A	3															
		87833-6520	N.A	N.A	N.A	2	YES	N.A	YES	YES											
		87833-6521	N.A	N.A	87833-2037	3															
		87833-2036	N.A	N.A	N.A	3											YES	N.A	YES	YES	
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											YES	N.A	YES	YES	2.00
		87833-2421	N.A	N.A	N.A	3															
		87833-7320	N.A	N.A	N.A	2	YES	N.A	YES	YES											
		87833-2436	N.A	N.A	N.A	3	YES	N.A	YES	YES							3.27				
		87833-6920	N.A	N.A	N.A	2	YES	N.A	YES	YES											
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.																					
RELEASE STATUS		P1	RELEASE DATE		2022/09/19 07:59:04																
9		8		7		6		5		4		3		2		1					

[illegible]

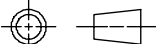
40 TO 50 CIRCUITS

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 POLARIZATI ON	DIMENSION							E
							DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)	
	40	87833-4019	N.A	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	N.A	2												
		87833-4021	N.A	N.A	N.A	3												
	42	87833-4219	N.A	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	N.A	2												
		87833-4221	N.A	N.A	N.A	3												
		87833-4222	N.A	87833-4322	87833-4223	3	YES	N.A	YES	YES	3.50							
D	44	87833-4419	N.A	N.A	N.A	1	44.65	40.00	43.00	42.85	2.16	42.00	45.00	44.85	38.00	N.A	2.16	
		87833-4420	N.A	N.A	N.A	2												
		87833-4421	N.A	N.A	N.A	3												
		87833-4424	N.A	N.A	N.A	2	N.A	N.A	YES	YES							2.92	
		87833-4425	N.A	N.A	N.A	3												
	46	87833-4619	N.A	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	N.A	2												
		87833-4621	N.A	N.A	N.A	3												
C	48	87833-4819	N.A	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	N.A	2												
		87833-4821	N.A	N.A	N.A	3												
	50	87833-5019	N.A	N.A	N.A	1	YES	N.A	YES	YES	52.65	48.00	51.00	50.85	44.00	N.A	2.16	
		87833-5020	N.A	N.A	N.A	2												
		87833-5021	N.A	N.A	N.A	3												

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.

RELEASE STATUS	P1	RELEASE DATE	2022/09/19	07:59:04
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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		NTS					
					MM	INCH	DRWN BY		DATE		PRODUCT CUSTOMER DRAWING			
	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							
	ANGULAR TOL ± 3.0			DRAWING SIZE		THIRD ANGLE PROJECTION			SERIES		MATERIAL NUMBER		CUSTOMER	
	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	9 OF 9