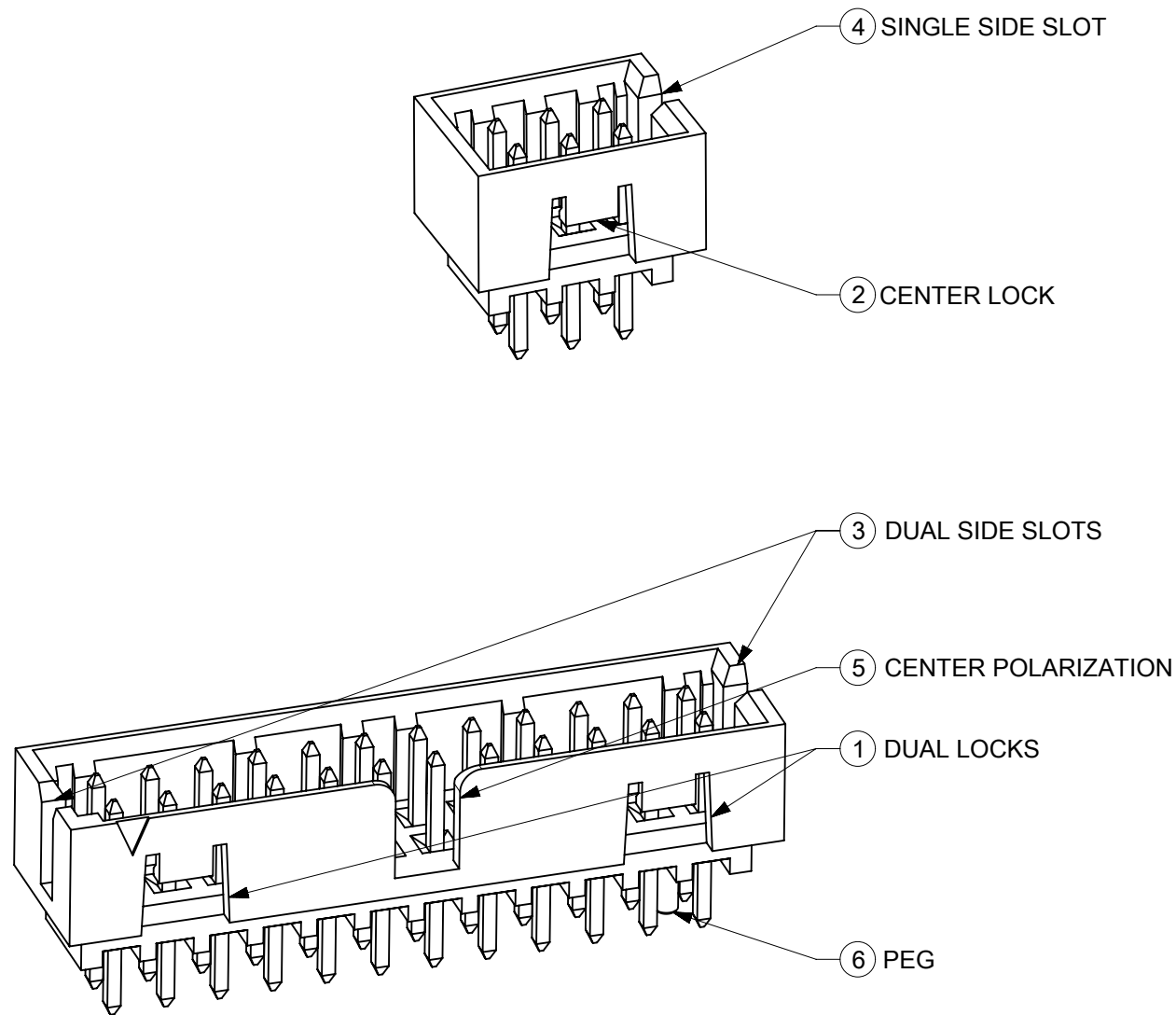


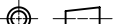
FEATURES SELECTION GUIDE



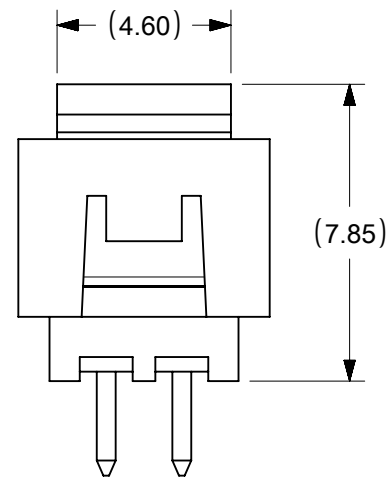
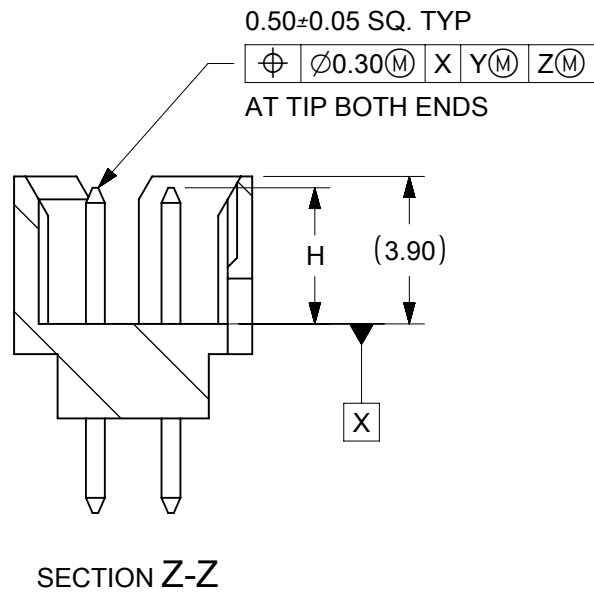
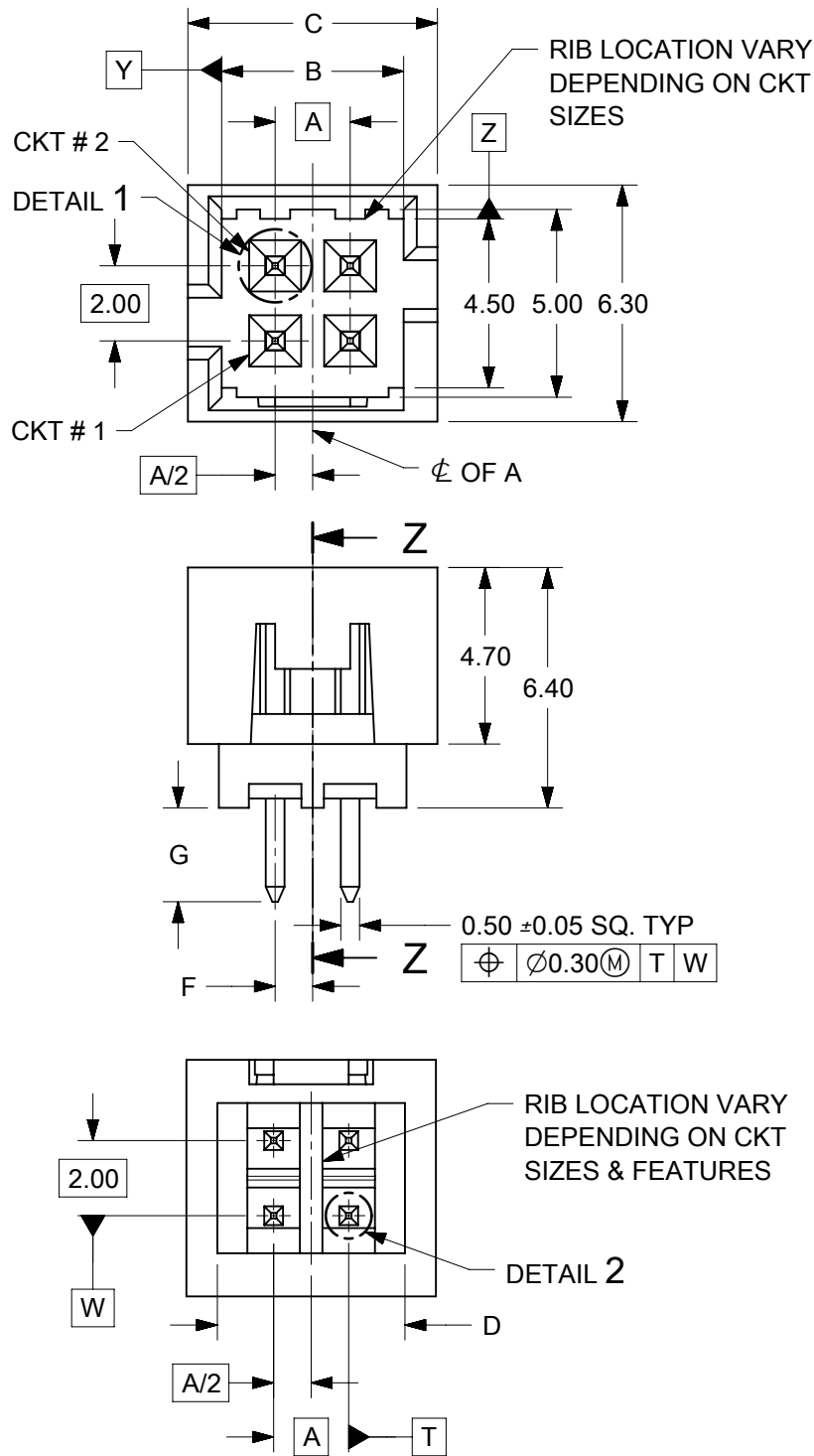
PACKAGING SPECIFICATION TABLE

TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR:	PK-87831-002
87831-0419 87831-0645	
87831-5141 87831-5119	
87831-0443 87831-1011	
87831-5241 87831-1420	
87831-5242	
87831-0643	

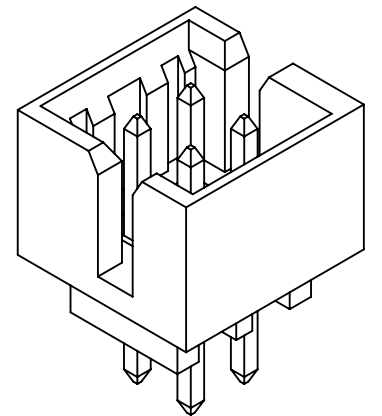
CIRCUIT SIZE		FEATURES						
		FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO
		① DUAL	② CENTER	③ DUAL	④ SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3	
	N.A	YES	YES	N.A	N.A	N.A		
	N.A	YES	N.A	YES	N.A	N.A		
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5	
	N.A	N.A	YES	N.A	N.A	YES		
	N.A	YES	YES	N.A	N.A	N.A		
	N.A	YES	YES	N.A	N.A	YES		
	N.A	YES	N.A	YES	N.A	N.A		
	N.A	YES	N.A	YES	N.A	YES		
	N.A	N.A	YES	N.A	YES	N.A		
8 TO 12	N.A	N.A	YES	N.A	YES	N.A	6 - 8	
	N.A	N.A	YES	N.A	YES	YES		
	N.A	YES	YES	N.A	N.A	N.A		
	N.A	YES	YES	N.A	N.A	YES		
	N.A	YES	N.A	YES	N.A	N.A		
	N.A	YES	N.A	YES	N.A	YES		
14 TO 50	YES	N.A	YES	N.A	YES	N.A	9 - 13	
	YES	N.A	YES	N.A	YES	YES		

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
 = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED BTB DIST.				molex					
 = 0		mm		NTS											
 = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)													
 = 0			MM	INCH											
 = 0		4 PLACES		±	±	EC NO: 619055				2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER					
 = 0		3 PLACES		±	±	DRWN: NMANE02 2019/03/25									
 = 0		2 PLACES		± 0.2	±	CHK'D: NMANE02 2019/07/09									
 = 0		1 PLACE		±	±	APPR: MRAMAKRISHNA 2019/07/09				PRODUCT CUSTOMER DRAWING					
 = 0		0 PLACES		±	±	INITIAL REVISION:				DOCUMENT NUMBER					
 = 0		ANGULAR TOL		± 3.0 °		DRWN: GMENARLY 2015/04/15				SD-87831-0001					
 = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
 = 0						A3-SIZE		87831		SEE TABLE		GENERAL MARKET		1 OF 14	

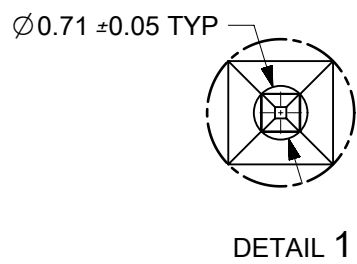
4 CIRCUITS



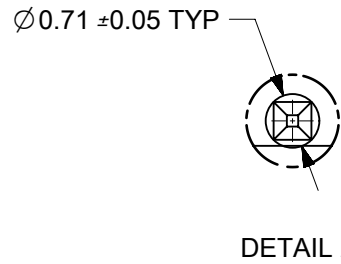
VIEW FOR
HEADER WITH CAP



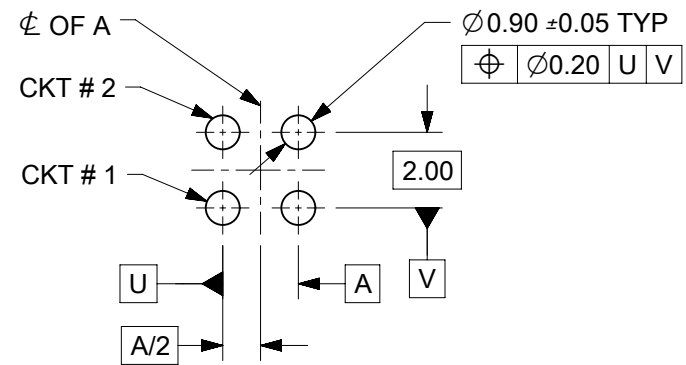
VIEW FOR HEADER
WITH ONLY DUAL SLOTS



DETAIL 1



DETAIL 2



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)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
= 0	mm	NTS
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
= 0		
= 0	MM	INCH
= 0	4 PLACES	±
= 0	3 PLACES	±
= 0	2 PLACES	± 0.2 ±
= 0	1 PLACE	±
= 0	0 PLACES	±
= 0	ANGULAR TOL	± 3.0 °
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
= 0	THIRD ANGLE PROJECTION	DRAWING
= 0	SERIES	87831
= 0	MATERIAL NUMBER	SEE TABLE
= 0	CUSTOMER	GENERAL MARKET
= 0	SHEET NUMBER	2 OF 14

EC NO: 619055	2019/03/25
DRWN: NMANE02	2019/07/09
CHK'D: NMANE02	2019/07/09
APPR: MRAMAKRISHNA	2019/07/09
INITIAL REVISION:	
DRWN: GMENARLY	2015/04/15
APPR: KHLIM	2015/06/29

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87831-0001	PSD	001	A16

PRODUCT CUSTOMER DRAWING	
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DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87831-0001	PSD	001	A16

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	2 OF 14

10	9	8	7	6	5	4	3	2	1									
4 CIRCUITS																		
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
4	87831-0419	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	2.00	4.85	6.65	5.00	N.A	N.A	2.50	3.60±0.20
	87831-0420	N.A	N.A	2														
	87831-0421	N.A	N.A	3														
	87831-0436	N.A	N.A	4														
	87831-0441	87831-0456	N.A	2	N.A	YES	YES	N.A	N.A	N.A						1.00	2.50	
	87831-0442	N.A	87831-5565	3														
	87831-5141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	3.50								
	87831-5142	N.A	N.A	3														
	87831-6141	N.A	N.A	2	N.A	YES	YES	N.A	N.A								2.80	
	87831-6142	N.A	N.A	3														
	87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A								
	87831-0444	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 GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

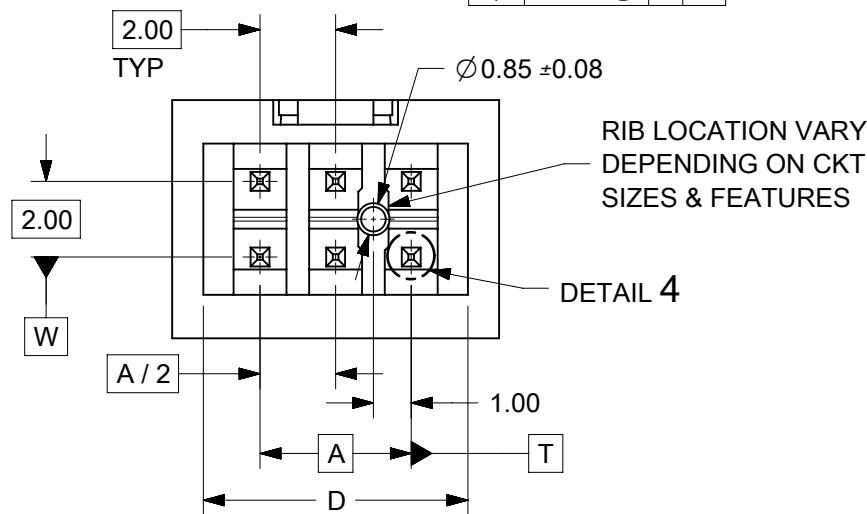
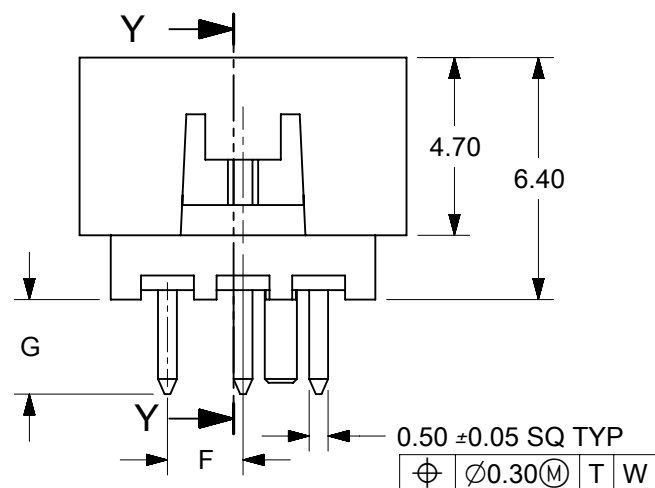
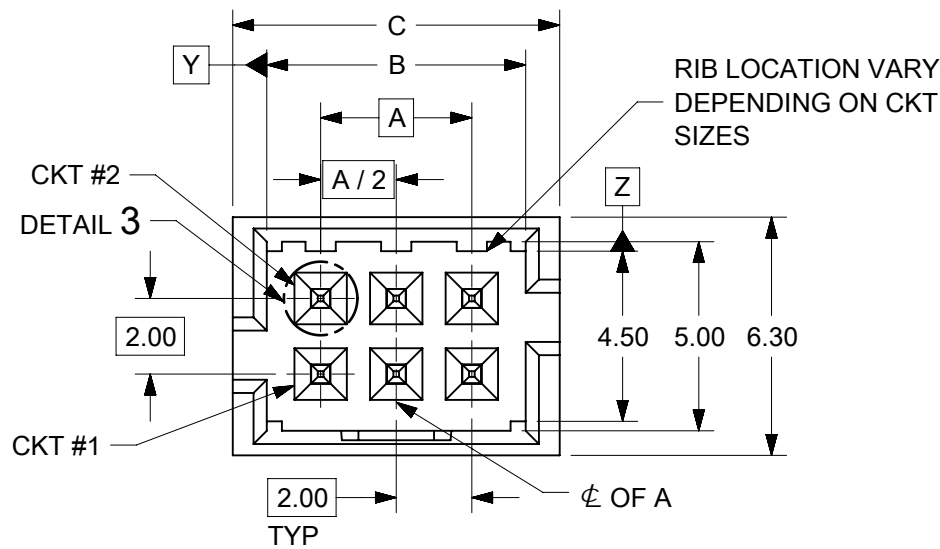
3 - 0.76µm/30µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTETIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.

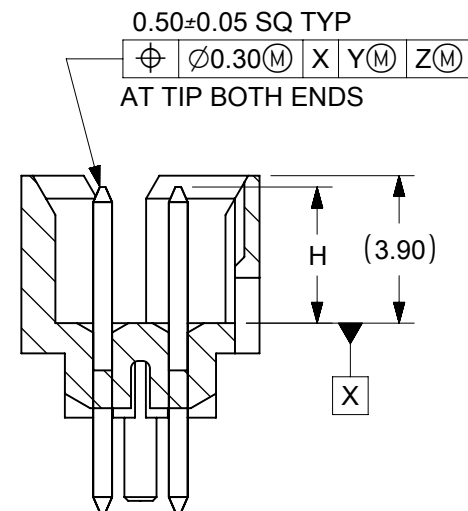
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
	= 0	mm	SCALE		CURRENT REV DESC: ADDED BTB DIST.								
			NTS										
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)											
		mm	inch										
	= 0	4 PLACES	±	±							EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09	2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	
	= 0	3 PLACES	±	±									
	= 0	2 PLACES	±	0.2									
	= 0	1 PLACE	±	±									
	= 0	0 PLACES	±	±	INITIAL REVISION:	DOCUMENT NUMBER					DOC TYPE	DOC PART	REVISION
	= 0	ANGULAR TOL ± 3.0 °			DRWN: GMENARLY 2015/04/15	SD-87831-0001					PSD	001	A16
	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			APPR: KHLIM 2015/06/29	MATERIAL NUMBER					CUSTOMER		SHEET NUMBER
	= 0				THIRD ANGLE PROJECTION	DRAWING	SERIES	SEE TABLE		GENERAL MARKET		3 OF 14	

DOCUMENT STATUS	P1	RELEASE DATE	2019/07/09	06:47:12
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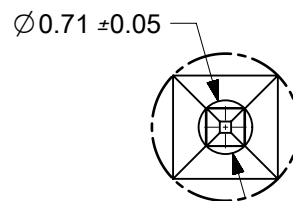
10	9	8	7	6	5	4	3	2	1
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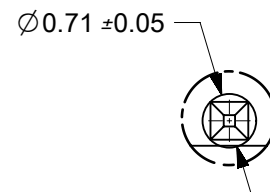
6 CIRCUITS



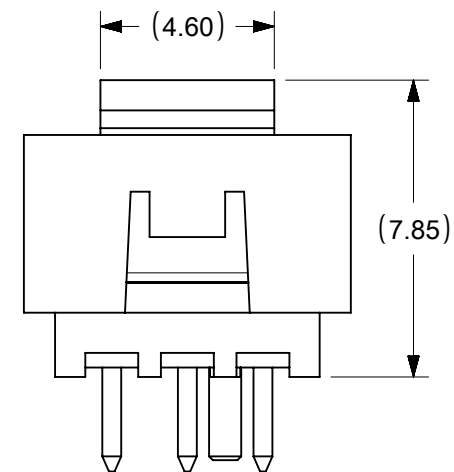
SECTION Y-Y



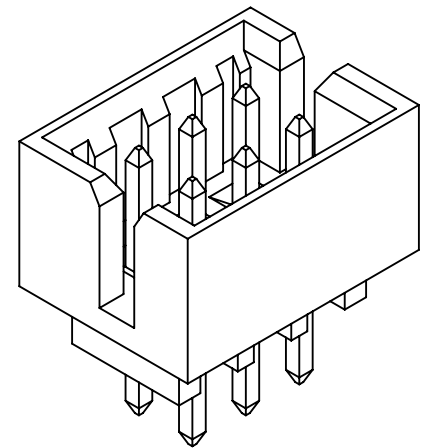
DETAIL 3



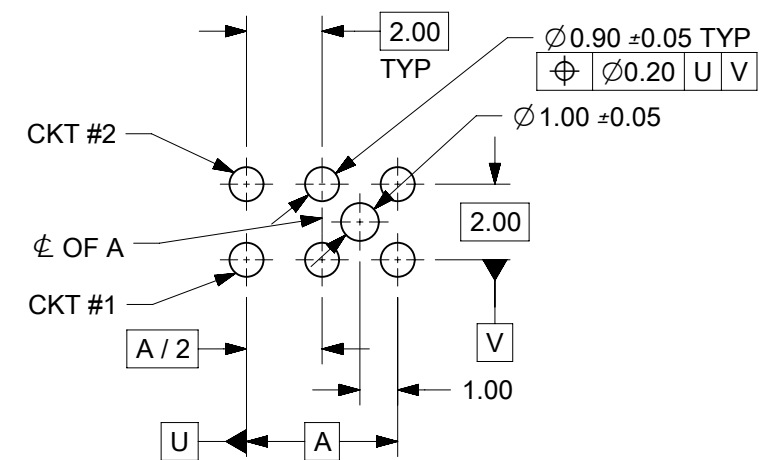
DETAIL 4



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER WITH
ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

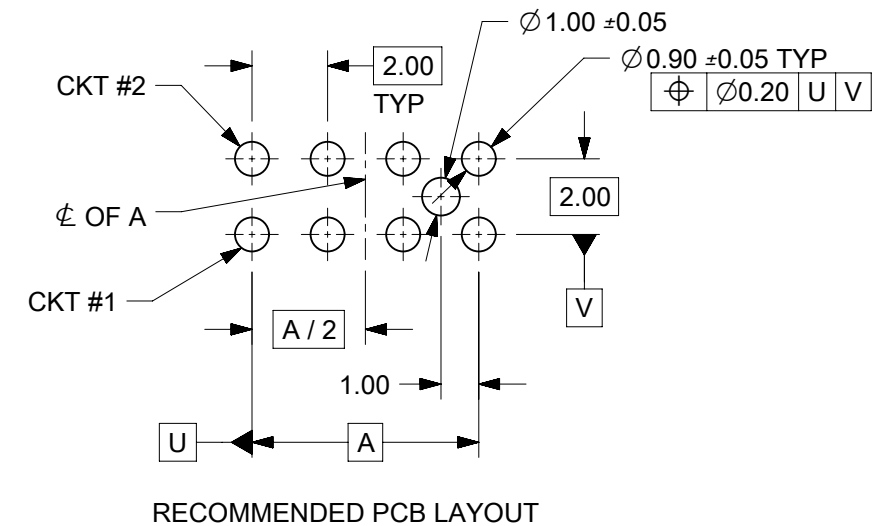
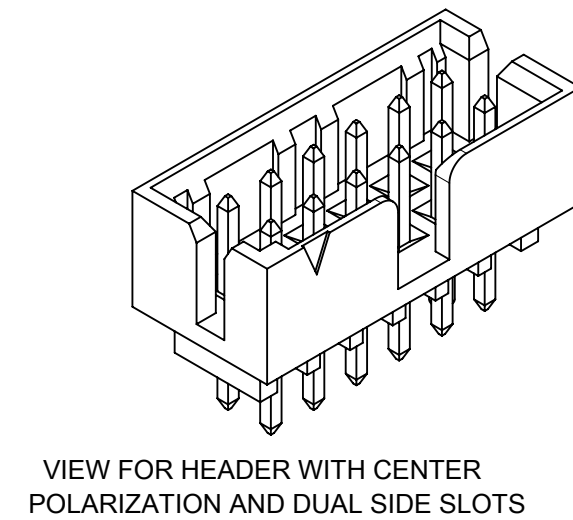
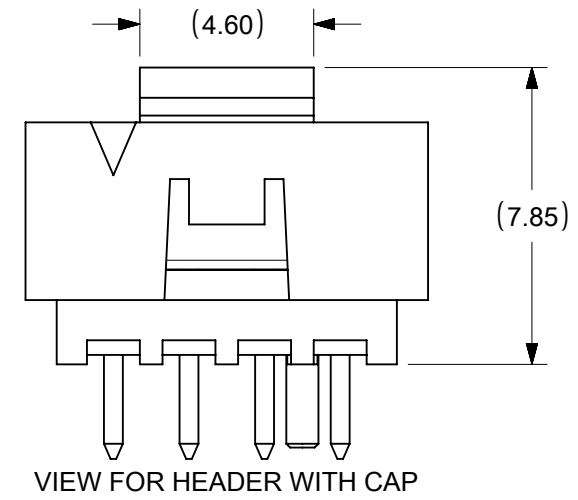
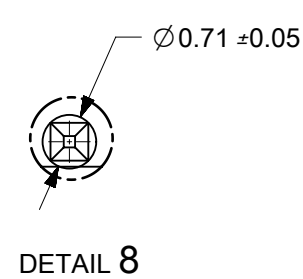
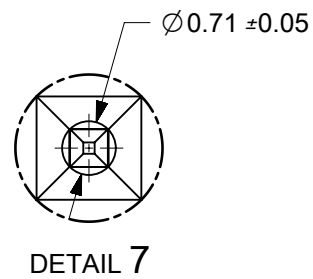
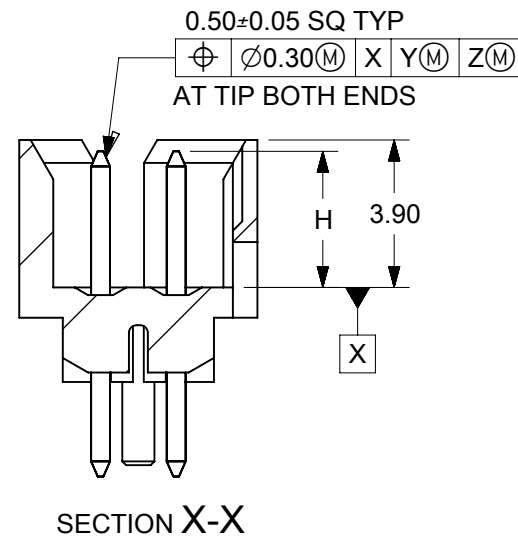
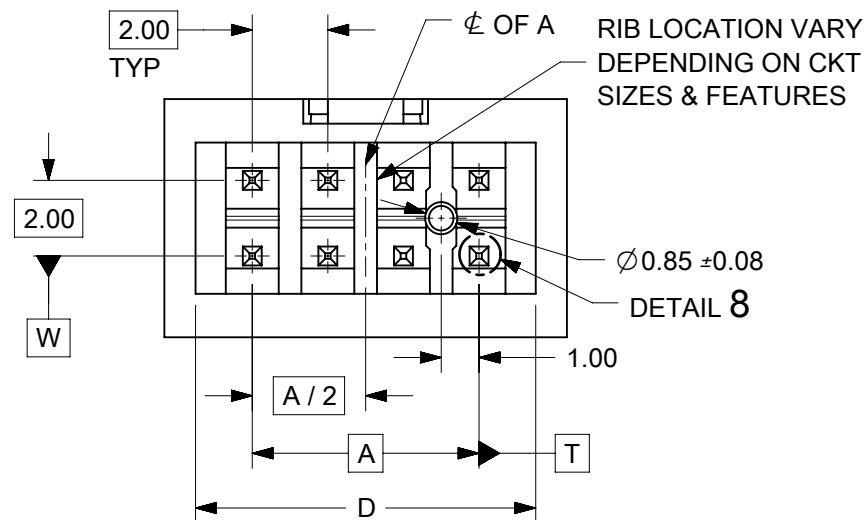
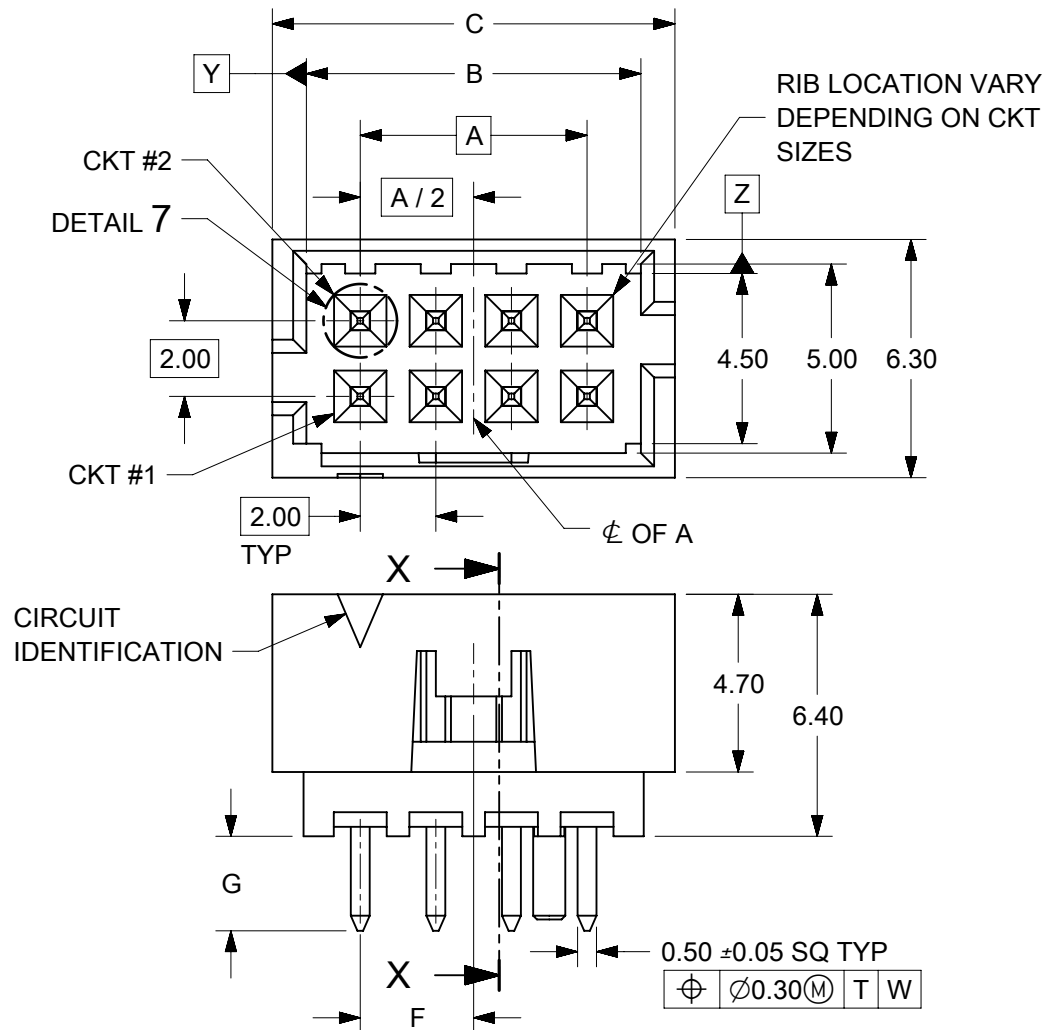
NOTES:

- 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)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
= 0	mm	NTS
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
= 0		
= 0	MM	INCH
= 0	4 PLACES ±	±
= 0	3 PLACES ±	±
= 0	2 PLACES ±	0.2 ±
= 0	1 PLACE ±	±
= 0	0 PLACES ±	±
= 0	ANGULAR TOL ±	3.0 °
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
= 0	THIRD ANGLE PROJECTION	DRAWING
= 0	SERIES	87831
= 0	MATERIAL NUMBER	SEE TABLE
= 0	CUSTOMER	GENERAL MARKET
= 0	SHEET NUMBER	4 OF 14

CURRENT REV DESC: ADDED BTB DIST.		molex	
EC NO: 619055		MILLIGRID	
DRWN: NMANE02 2019/03/25		2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	
CHK'D: NMANE02 2019/07/09		PRODUCT CUSTOMER DRAWING	
APPR: MRAMAKRISHNA 2019/07/09		DOCUMENT NUMBER	
INITIAL REVISION:		SD-87831-0001	
DRWN: GMENARLY 2015/04/15		DOC TYPE	
APPR: KHLIM 2015/06/29		PSD	
THIRD ANGLE PROJECTION		DOC PART	
DRAWING		001	
SERIES		REVISION	
A3-SIZE		A16	

8 TO 12 CIRCUITS

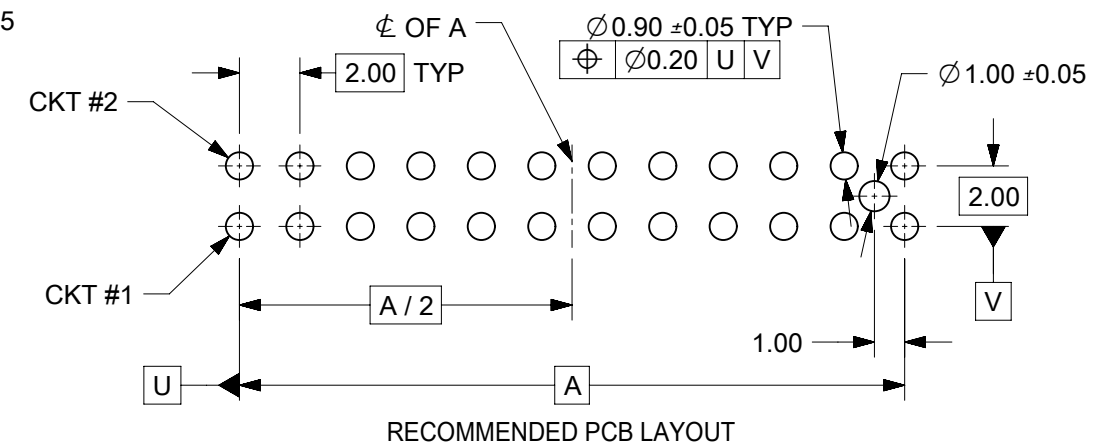
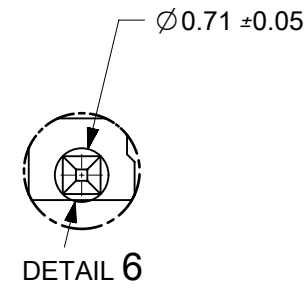
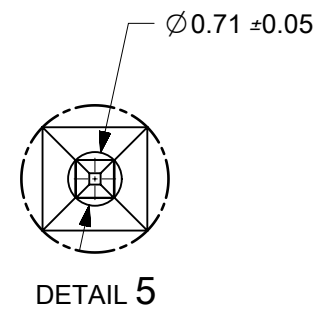
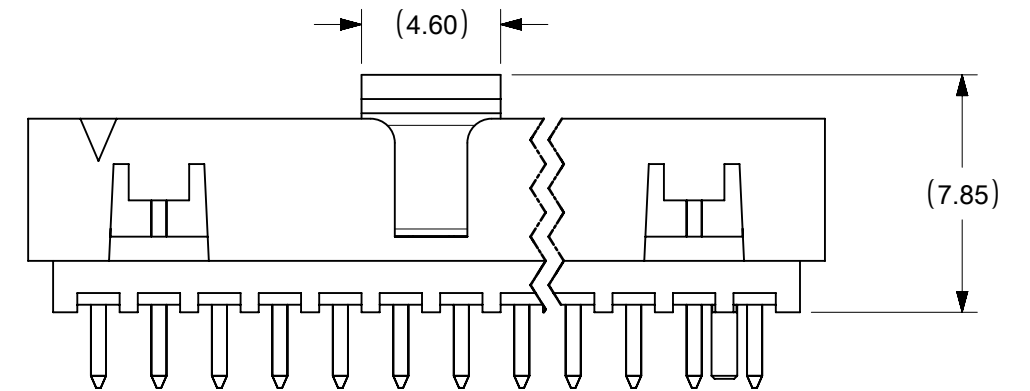
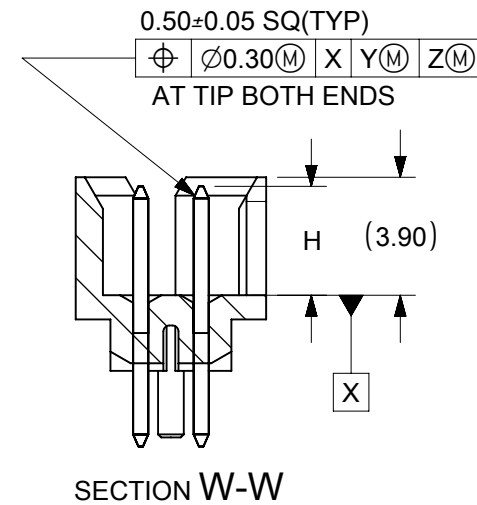
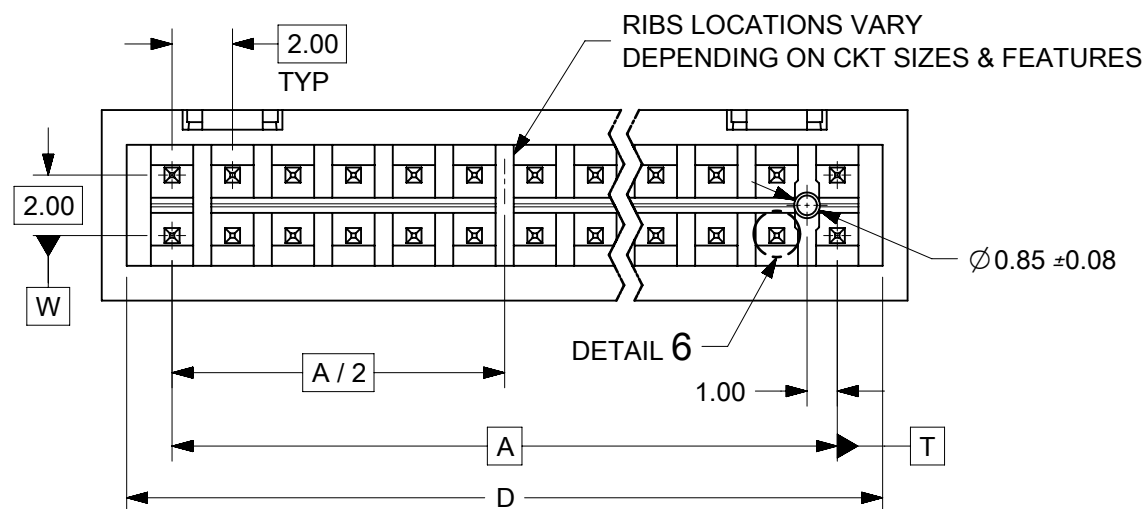
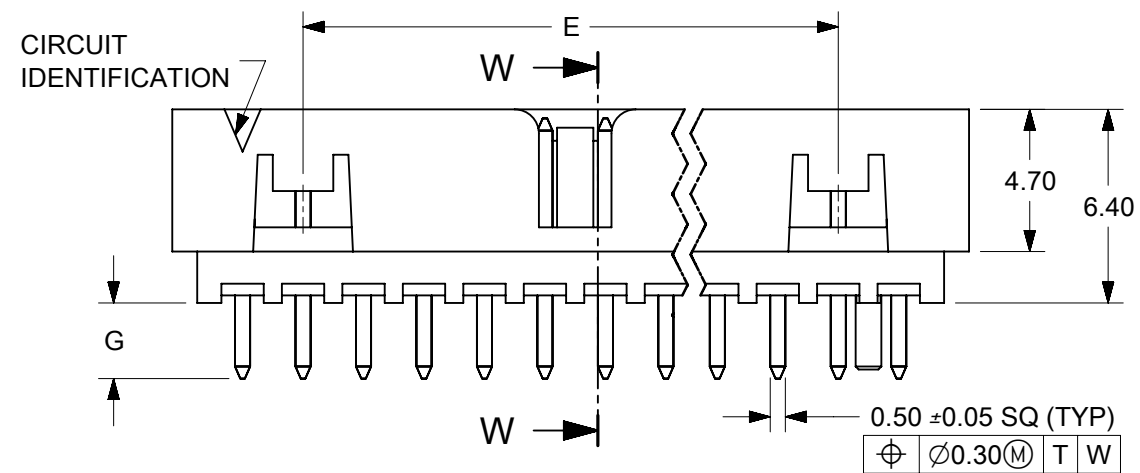
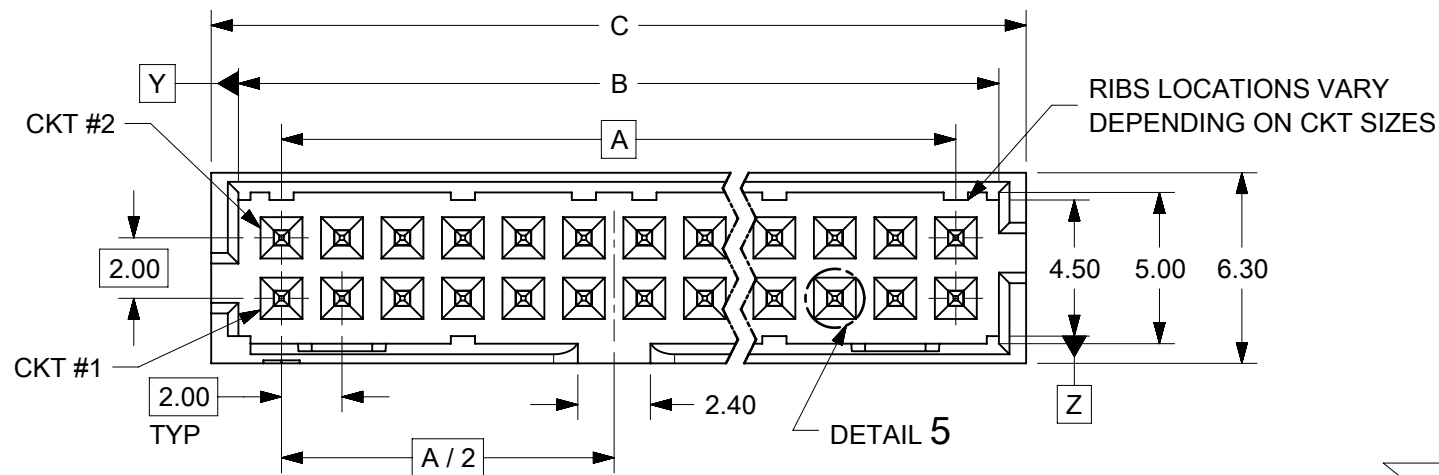


NOTES:

- 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)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
$\nabla = 0$	mm	NTS
$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)	
$\nabla = 0$		MM INCH
$\nabla = 0$	4 PLACES $\pm$	$\pm$
$\nabla = 0$	3 PLACES $\pm$	$\pm$
$\nabla = 0$	2 PLACES $\pm$	0.2 $\pm$
$\nabla = 0$	1 PLACE $\pm$	$\pm$
$\nabla = 0$	0 PLACES $\pm$	$\pm$
$\nabla = 0$	ANGULAR TOL $\pm$	3.0 °
$\nabla = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
$\nabla = 0$	THIRD ANGLE PROJECTION	DRAWING SERIES
$\nabla = 0$	A3-SIZE	87831
CURRENT REV DESC: ADDED BTB DIST.		
EC NO: 619055		
DRWN: NMANE02 2019/03/25		
CHK'D: NMANE02 2019/07/09		
APPR: MRAMAKRISHNA 2019/07/09		
INITIAL REVISION:		
DRWN: GMENARLY 2015/04/15		
APPR: KHLIM 2015/06/29		
DOCUMENT NUMBER		
SD-87831-0001		
DOC TYPE DOC PART REVISION		
PSD 001 A16		
PRODUCT CUSTOMER DRAWING		
MATERIAL NUMBER CUSTOMER SHEET NUMBER		
SEE TABLE GENERAL MARKET 6 OF 14		

14 TO 50 CIRCUITS



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)

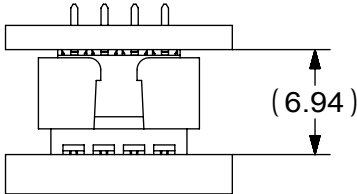
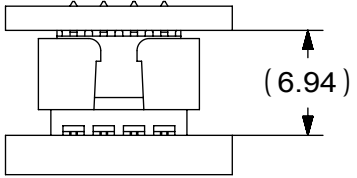
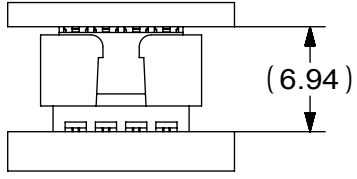
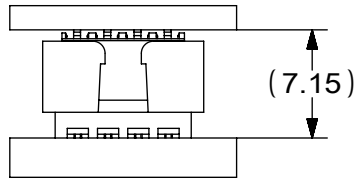
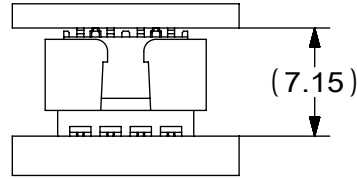
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DIMENSION UNITS		SCALE		mm NTS GENERAL TOLERANCES (UNLESS SPECIFIED) MM INCH	
F = 0					
F = 0					
F = 0					
S = 0		4 PLACES ± ±		EC NO: 619055	
▽ = 0		3 PLACES ± ±		DRWN: NMANE02 2019/03/25	
C = 0		2 PLACES ± 0.2 ±		CHK'D: NMANE02 2019/07/09	
C = 0		1 PLACE ± ±		APPR: MRAMAKRISHNA 2019/07/09	
X = 0		0 PLACES ± ±		INITIAL REVISION:	
■ = 0		ANGULAR TOL ± 3.0 °		DRWN: GMENARLY 2015/04/15	
▽ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: KHLIM 2015/06/29	
		THIRD ANGLE PROJECTION		DRAWING	
		SERIES		MATERIAL NUMBER	
		A3-SIZE		CUSTOMER	
		87831		SHEET NUMBER	
		SEE TABLE		9 OF 14	
		GENERAL MARKET			

10	9	8	7	6	5	4	3	2	1										
22 TO 30 CIRCUITS																			
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
22	87831-2219	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	20.00	22.85	24.65	23.00	16.00	N.A	2.50	3.60±0.20
	87831-2220	N.A	N.A	N.A	2														
	87831-2221	N.A	N.A	N.A	3														
	87831-2236	N.A	N.A	N.A	4														
	87831-2228	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-2229	N.A	N.A	N.A	3														
24	87831-2419	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	22.00	24.85	26.65	25.00	18.00	N.A	2.50	3.60±0.20
	87831-2420	N.A	N.A	87831-7420	2														
	87831-2421	N.A	N.A	N.A	3														
	87831-2436	N.A	N.A	N.A	4														
	87831-2428	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-2429	N.A	N.A	N.A	3														
	87831-2435	N.A	N.A	N.A	3														
	87831-2445	N.A	N.A	N.A	3														
	87831-2410	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50	
26	87831-2619	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	24.00	26.85	28.65	27.00	20.00	N.A	2.50	3.60±0.20
	87831-2620	87831-2630	87831-5555	N.A	2														
	87831-2621	N.A	N.A	N.A	3														
	87831-2636	N.A	N.A	N.A	4														
	87831-2628	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-2629	N.A	N.A	N.A	3														
	87831-2610	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50	
28	87831-2819	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	26.00	28.85	30.65	29.00	22.00	N.A	2.50	3.60±0.20
	87831-2820	N.A	N.A	N.A	2														
	87831-2821	N.A	N.A	N.A	3														
	87831-2836	N.A	N.A	N.A	4														
	87831-2828	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-2829	N.A	N.A	N.A	3														
30	87831-3019	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	28.00	30.85	32.65	31.00	24.00	N.A	2.50	3.60±0.20
	87831-3020	N.A	N.A	N.A	2														
	87831-3021	N.A	N.A	N.A	3														
	87831-3036	N.A	N.A	N.A	4														
	87831-3028	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-3029	N.A	N.A	N.A	3														
	87831-3035	N.A	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50	
	87831-3010	87831-3030	87831-3050	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50	
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 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 GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																			
4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																			
DOCUMENT STATUS P1 RELEASE DATE 2019/07/09 06:47:12																			
10	9	8	7	6	5	4	3	2	1										

10	9	8	7	6	5	4	3	2	1										
42 TO 50 CIRCUITS																			
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H	
42	87831-4219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	40.00	42.85	44.65	43.00	36.00	N.A	2.50	3.60±0.20	
	87831-4220	N.A	N.A	2															
	87831-4221	N.A	N.A	3															
	87831-4236	N.A	N.A	4															
	87831-4228	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
	87831-4229	N.A	N.A	3															
44	87831-4419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	42.00	44.85	46.65	45.00	38.00	N.A	2.50	3.60±0.20	
	87831-4420	N.A	N.A	2															
	87831-4421	N.A	N.A	3															
	87831-4436	N.A	N.A	4															
	87831-4428	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
	87831-4429	N.A	N.A	3															
	87831-4435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50		
46	87831-4619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	44.00	46.85	48.65	47.00	40.00	N.A	2.50	3.60±0.20	
	87831-4620	N.A	N.A	2															
	87831-4621	N.A	N.A	3															
	87831-4636	N.A	N.A	4															
	87831-4628	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
	87831-4629	N.A	N.A	3															
48	87831-4819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	46.00	48.85	50.65	49.00	42.00	N.A	2.50	3.60±0.20	
	87831-4820	N.A	N.A	2															
	87831-4821	N.A	N.A	3															
	87831-4836	N.A	N.A	4															
	87831-4828	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
	87831-4829	N.A	N.A	3															
50	87831-5019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	48.00	50.85	52.65	51.00	44.00	N.A	2.50	3.60±0.20	
	87831-5020	N.A	N.A	2															
	87831-5021	N.A	N.A	3															
	87831-5036	N.A	N.A	4															
	87831-5028	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
	87831-5029	N.A	N.A	3															
	87831-5035	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50		
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 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 GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																			
4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																			
DOCUMENT STATUS	P1	RELEASE DATE	2019/07/09	06:47:12															
10	9	8	7	6	5	4	3	2	1										
FORMAT: Mfg REVISION: D DATE: 2018/01/17										PROD: B-prod-A3									

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED BTB DIST.					molex				
	mm		NTS											
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09					2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
			MM	INCH										
	▽ = 0	4 PLACES	±	±	INITIAL REVISION:					DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	▽ = 0	3 PLACES	±	±						SD-87831-0001		PSD	001	A16
	▽ = 0	2 PLACES	±	0.2	DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29					MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
	▽ = 0	1 PLACE	±	±						SEE TABLE		GENERAL MARKET		13 OF 14
	☒ = 0	0 PLACES	±	±	THIRD ANGLE PROJECTION					DRAWING		SERIES		
■ = 0	ANGULAR TOL ± 3.0 °			A3-SIZE						87831				
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													

BOARD TO BOARD (BTB) DISTANCE

HEADER	MATES WITH (RECEPTACLE)	BTB DIST.	PICTORIAL VIEW
87831	79107	6.94	
	78787	6.94	
	79108	6.94	
	79109	7.15	
	78788	7.15	

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED BTB DIST.				MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER											
	mm		NTS												GENERAL TOLERANCES (UNLESS SPECIFIED)					
			MM		INCH		EC NO: 619055 DRWN: NMANE022019/03/25 CHK'D: NMANE022019/07/09 APPR: MRAMAKRISHNA2019/07/09				PRODUCT CUSTOMER DRAWING									
	4 PLACES		±		±												INITIAL REVISION: DRWN: DRWN BYXXXX/XX/XX APPR: APPR BYXXXX/XX/XX			
	3 PLACES		±		±															
	2 PLACES		± 0.2		±															
	1 PLACE		±		±		DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION					
	0 PLACES		±		±												SD-87831-0001			
	ANGULAR TOL		± 3.0 °																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER								
				A3-SIZE		87831				GENERAL MARKET		14 OF 14								

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