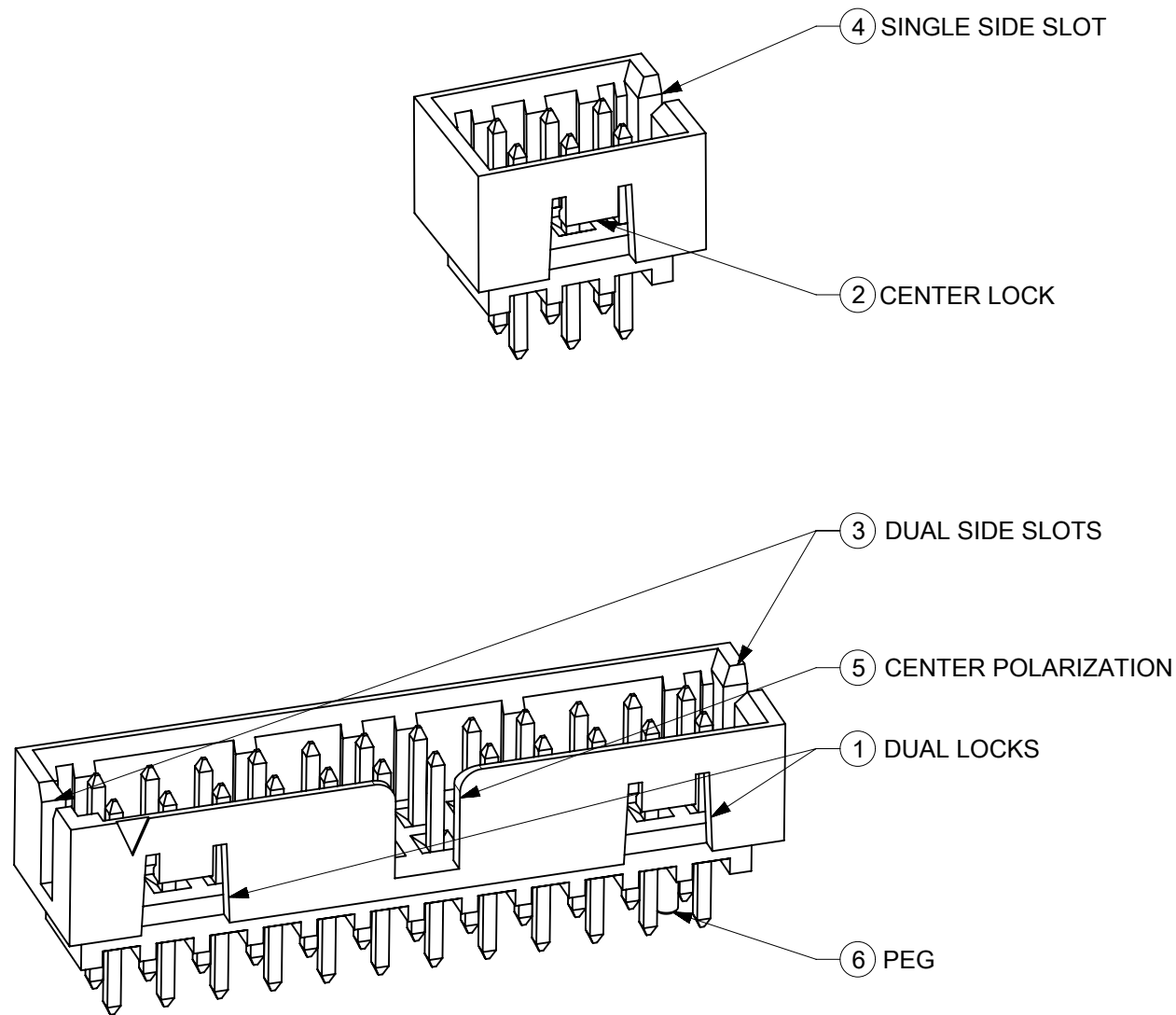


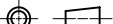
FEATURES SELECTION GUIDE



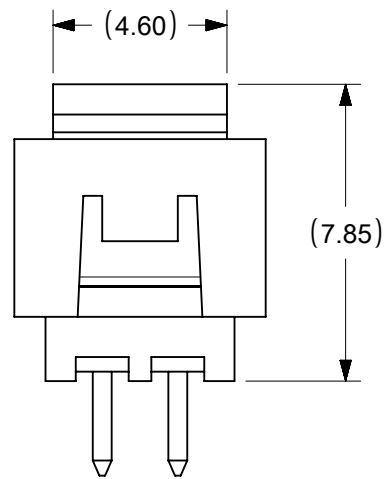
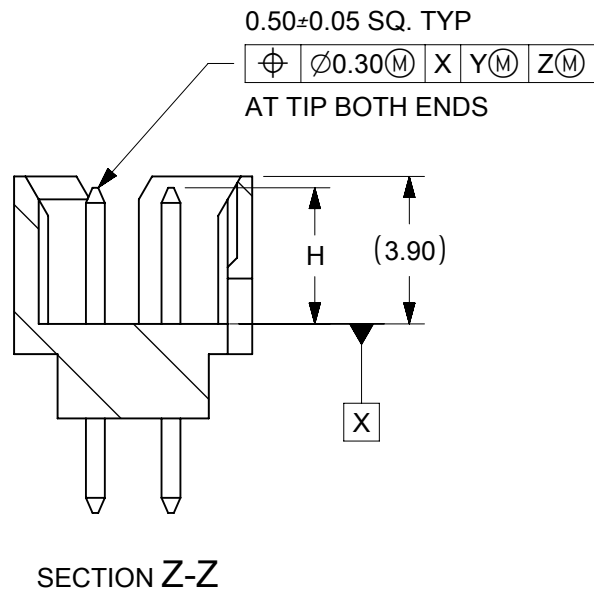
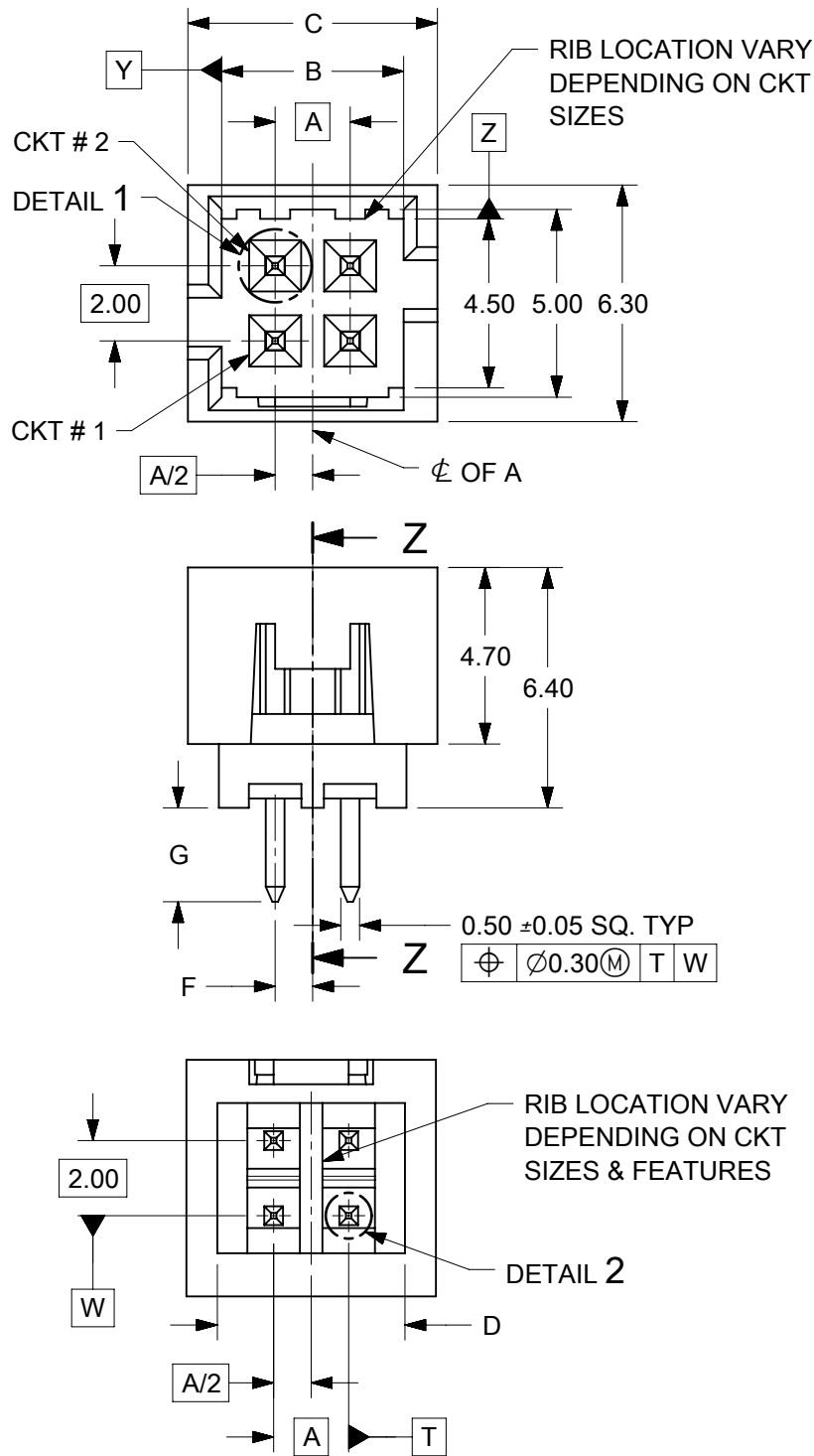
PACKAGING SPECIFICATION TABLE

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	

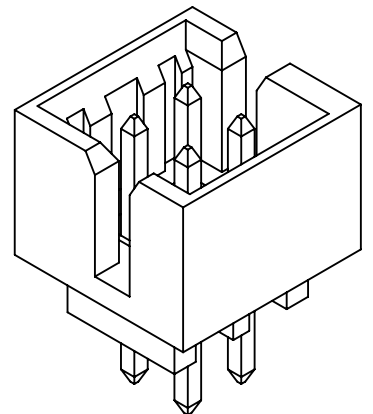
FEATURES							
CIRCUIT SIZE	FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO
	① DUAL	② CENTER	③ DUAL	④ SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	N.A	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	N.A	YES	
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	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.									
 = 0		mm		NTS											
 = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)								EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09					
 = 0			MM	INCH											
 = 0		4 PLACES ± ±				INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29				MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER					
 = 0		3 PLACES ± ±													
 = 0		2 PLACES ± 0.2 ±								PRODUCT CUSTOMER DRAWING					
 = 0		1 PLACE ± ±													
 = 0		0 PLACES ± ±				DOCUMENT NUMBER SD-87831-0001				DOC TYPE PSD		DOC PART 001		REVISION A16	
 = 0		ANGULAR TOL ± 3.0 °								THIRD ANGLE PROJECTION 				MATERIAL NUMBER SEE TABLE	
= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRAWING A3-SIZE		SERIES 87831							

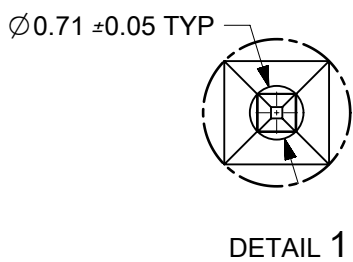
4 CIRCUITS



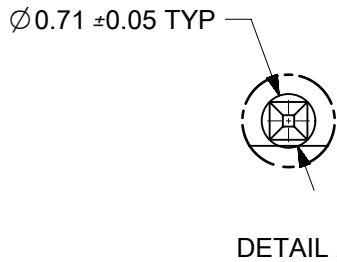
VIEW FOR
HEADER WITH CAP



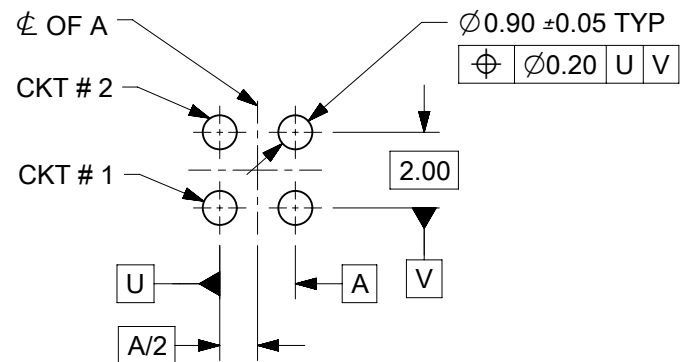
VIEW FOR HEADER
WITH ONLY DUAL SLOTS



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

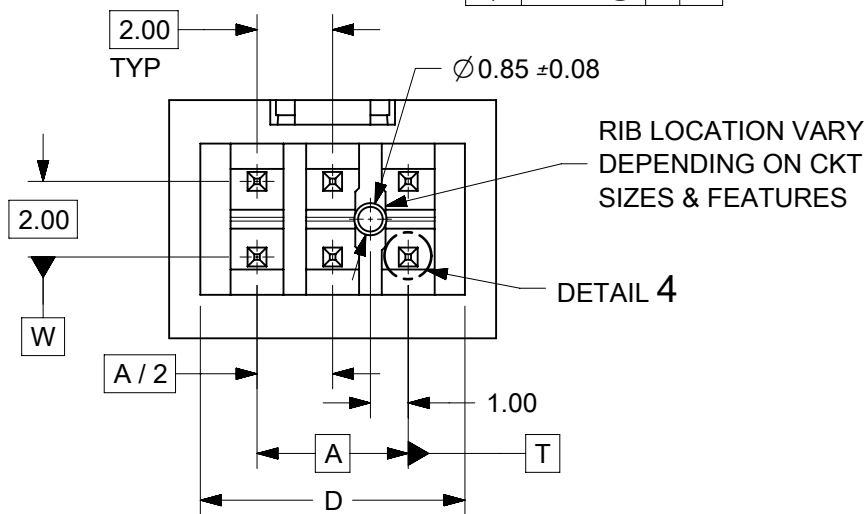
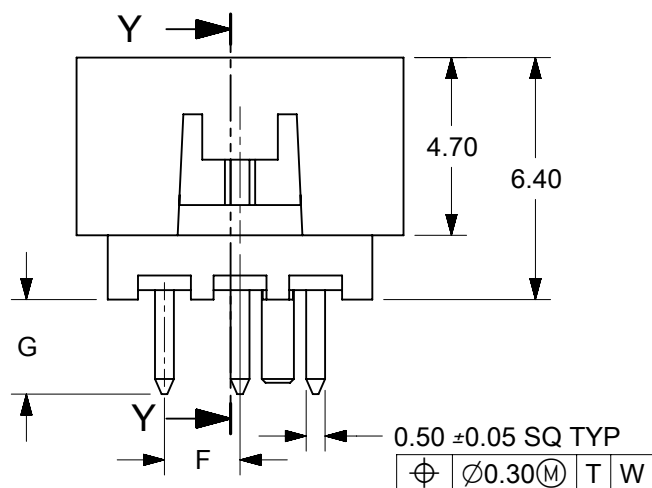
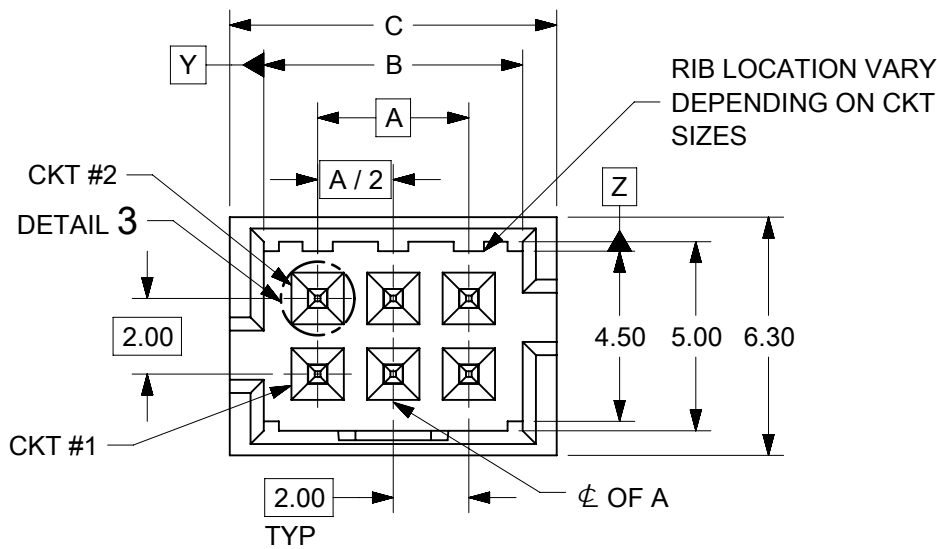
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87831-0001	PSD	001	A16

PRODUCT CUSTOMER DRAWING	
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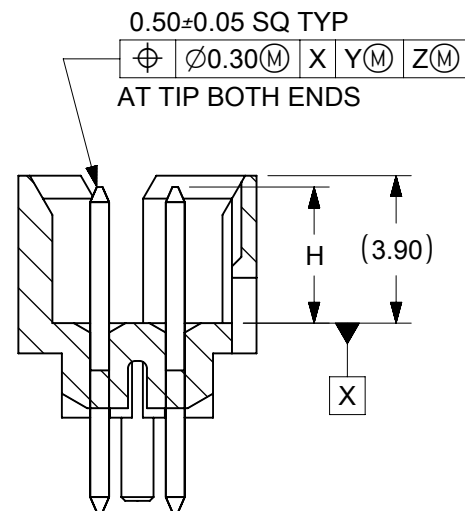
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SD-87831-0001	PSD	001	A16

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

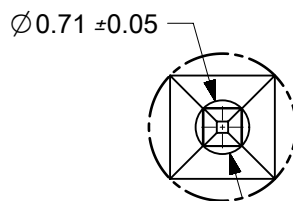
10	9	8	7	6	5	4	3	2	1																																																																																																																								
4 CIRCUITS																																																																																																																																	
4	ASSY P/N WITHOUT CAP 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																																																																																																															
	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	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																N.A	YES	YES	N.A	N.A	N.A	2.80																																																																																																							
	87831-5141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A																	2.50																																																																																																						
	87831-5142	N.A	N.A	3																								N.A	YES	YES	N.A	N.A	N.A	2.50																																																																																															
	87831-6141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A								N.A		2.50																																																																																																													
	87831-6142	N.A	N.A	3															N.A		YES	N.A	YES	N.A	N.A	N.A	2.50																																																																																																						
	87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A								N.A		2.50																																																																																																													
	87831-0444	N.A	N.A	3															N.A		YES	N.A	YES	N.A	N.A	N.A	2.50																																																																																																						
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. 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.										<table><tr><td>SYMBOLS</td><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td rowspan="2"></td><td rowspan="2">= 0</td><td rowspan="2">mm</td><td colspan="2">SCALE</td><td rowspan="8">CURRENT REV DESC: ADDED BTB DIST.</td><td colspan="4" rowspan="4"></td></tr><tr><td colspan="2">NTS</td></tr><tr><td></td><td>= 0</td><td colspan="7" rowspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td></tr><tr><td></td><td>= 0</td></tr><tr><td></td><td>= 0</td><td>4 PLACES</td><td>±</td><td>±</td><td rowspan="4">EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09</td><td rowspan="4">2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER</td><td rowspan="4">PRODUCT CUSTOMER DRAWING</td></tr><tr><td></td><td>= 0</td><td>3 PLACES</td><td>±</td><td>±</td></tr><tr><td></td><td>= 0</td><td>2 PLACES</td><td>±</td><td>0.2</td><td>±</td></tr><tr><td></td><td>= 0</td><td>1 PLACE</td><td>±</td><td>±</td></tr><tr><td></td><td>= 0</td><td>0 PLACES</td><td>±</td><td>±</td><td rowspan="2">INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29</td><td rowspan="2">DOCUMENT NUMBER SD-87831-0001</td><td rowspan="2">DOC TYPE PSD</td><td rowspan="2">DOC PART 001</td><td rowspan="6">REVISION A16</td></tr><tr><td></td><td>= 0</td><td colspan="3">ANGULAR TOL ± 3.0 °</td></tr><tr><td></td><td>= 0</td><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td>THIRD ANGLE PROJECTION</td><td>DRAWING A3-SIZE</td><td>SERIES 87831</td><td>MATERIAL NUMBER SEE TABLE</td><td>CUSTOMER GENERAL MARKET</td><td>SHEET NUMBER 3 OF 14</td></tr><tr><td></td><td>= 0</td><td colspan="3"></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="10"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr></table>									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)								= 0		= 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	PRODUCT CUSTOMER DRAWING		= 0	3 PLACES	±	±		= 0	2 PLACES	±	0.2	±		= 0	1 PLACE	±	±		= 0	0 PLACES	±	±	INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29	DOCUMENT NUMBER SD-87831-0001	DOC TYPE PSD	DOC PART 001	REVISION A16		= 0	ANGULAR TOL ± 3.0 °				= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 87831	MATERIAL NUMBER SEE TABLE	CUSTOMER GENERAL MARKET	SHEET NUMBER 3 OF 14		= 0																									
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	= 0	mm	SCALE		CURRENT REV DESC: ADDED BTB DIST.																																																																																																																												
			NTS																																																																																																																														
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	= 0																																																																																																																																
	= 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	PRODUCT CUSTOMER DRAWING																																																																																																																									
	= 0	3 PLACES	±	±																																																																																																																													
	= 0	2 PLACES	±	0.2					±																																																																																																																								
	= 0	1 PLACE	±	±																																																																																																																													
	= 0	0 PLACES	±	±	INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29	DOCUMENT NUMBER SD-87831-0001	DOC TYPE PSD	DOC PART 001	REVISION A16																																																																																																																								
	= 0	ANGULAR TOL ± 3.0 °																																																																																																																															
	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 87831	MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET	SHEET NUMBER 3 OF 14																																																																																																																						
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DOCUMENT STATUS P1 RELEASE DATE 2019/07/09 06:47:12																																																																																																																																	
10	9	8	7	6	5	4	3	2	1																																																																																																																								



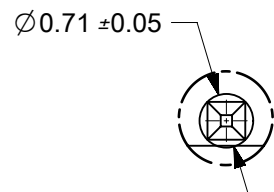
6 CIRCUITS



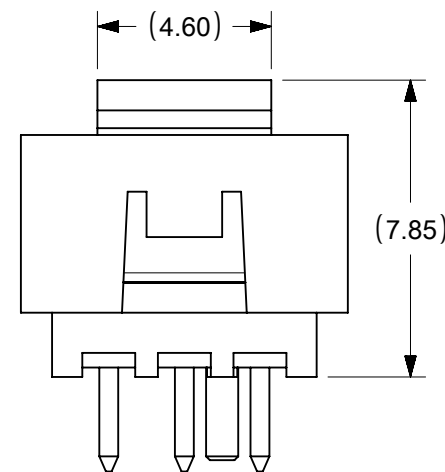
SECTION Y-Y



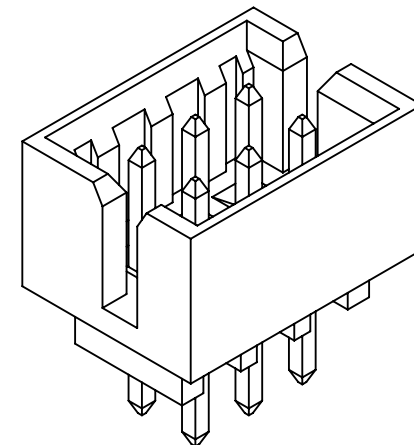
DETAIL 3



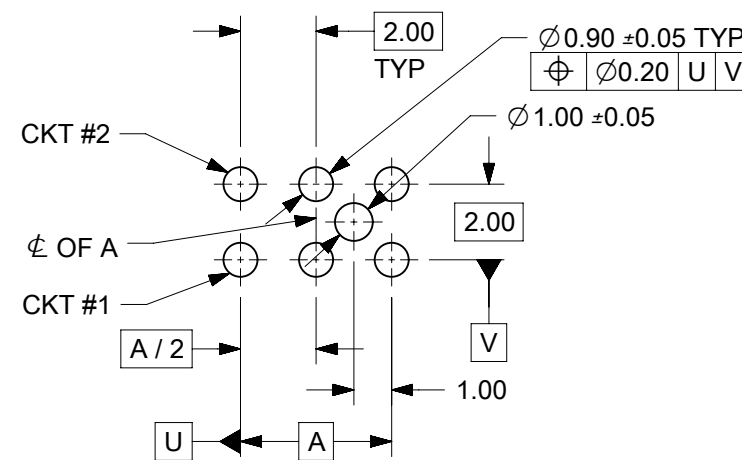
DETAIL 4



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER WITH
ONLY DUAL SLOTS



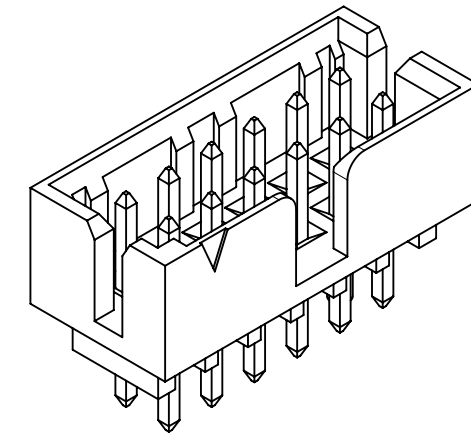
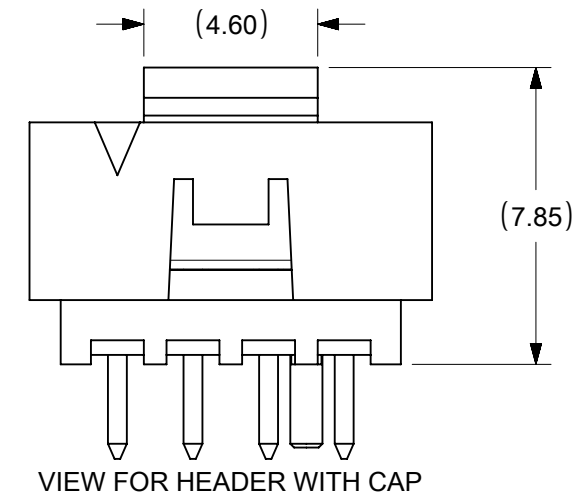
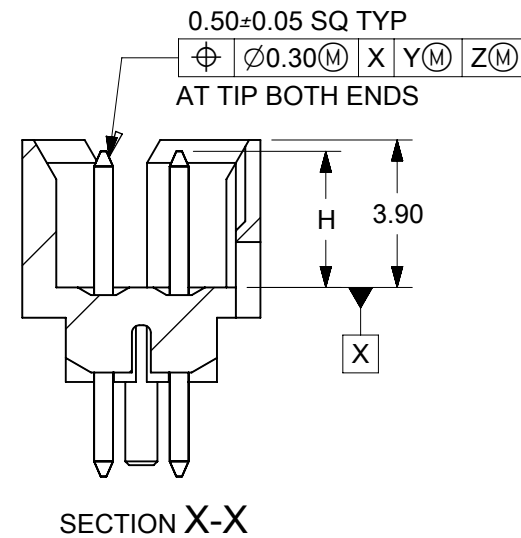
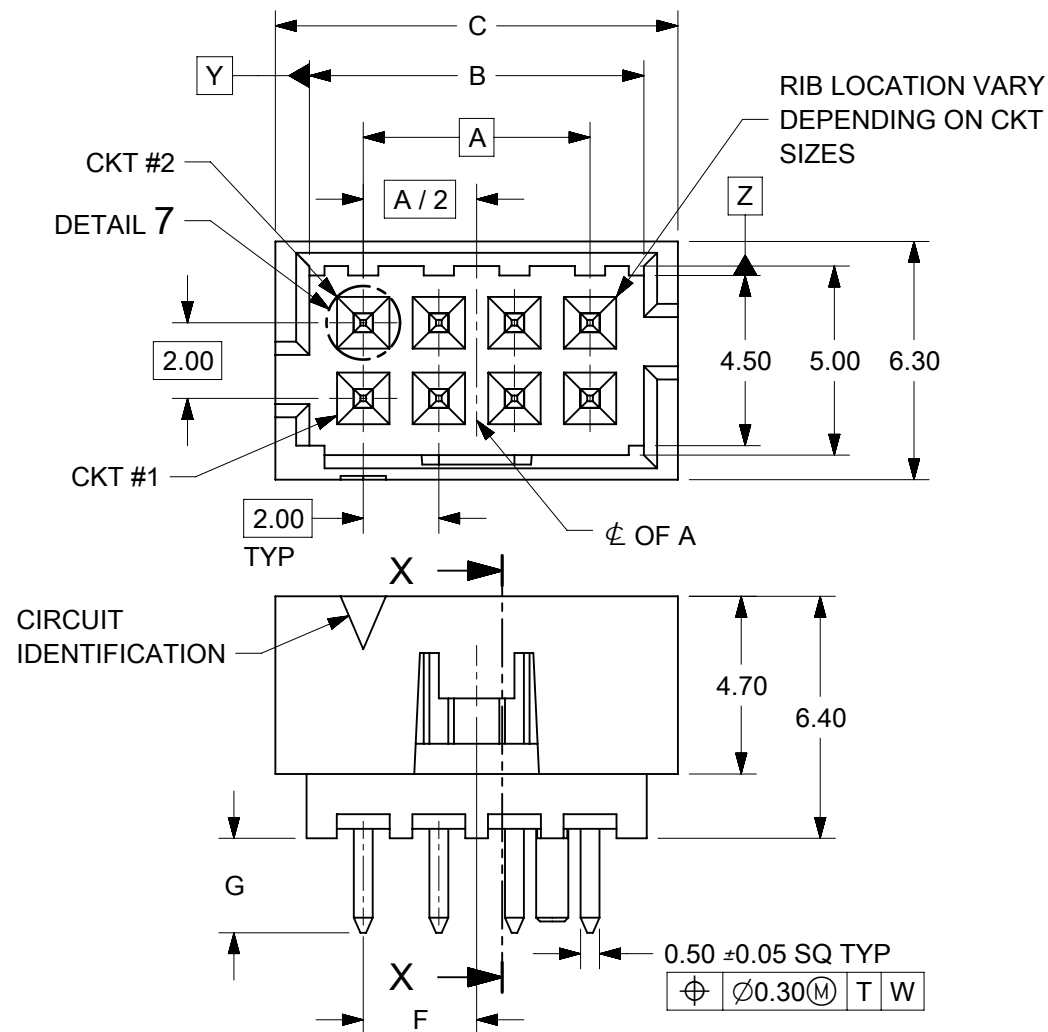
RECOMMENDED PCB LAYOUT

NOTES:

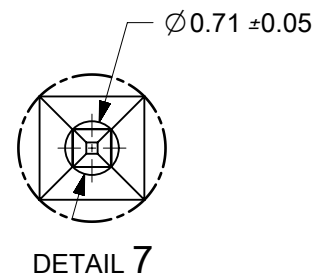
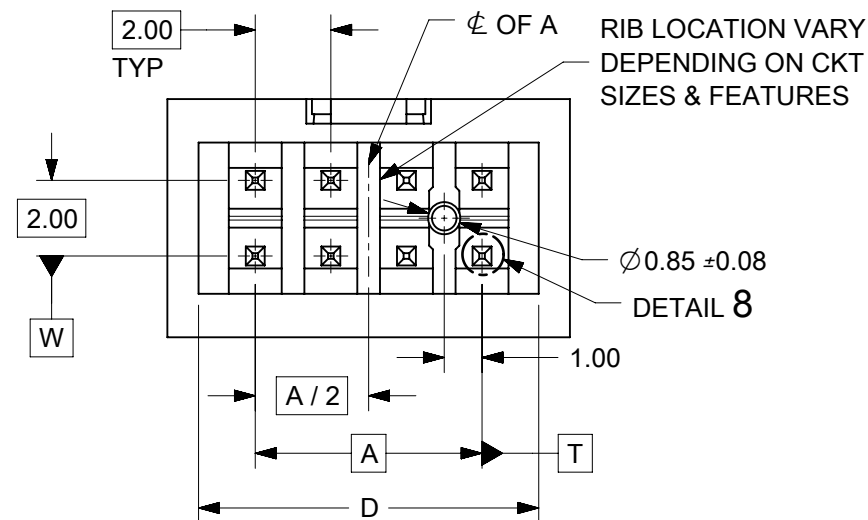
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP 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
	A3-SIZE	SERIES
	87831	
	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
	SD-87831-0001	PSD
	DOC PART	REVISION
	001	A16
	MATERIAL NUMBER	CUSTOMER
	SEE TABLE	GENERAL MARKET
	SHEET NUMBER	4 OF 14

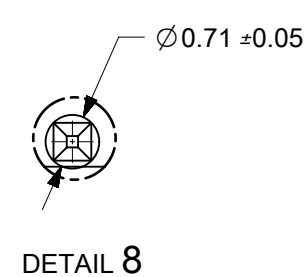
8 TO 12 CIRCUITS



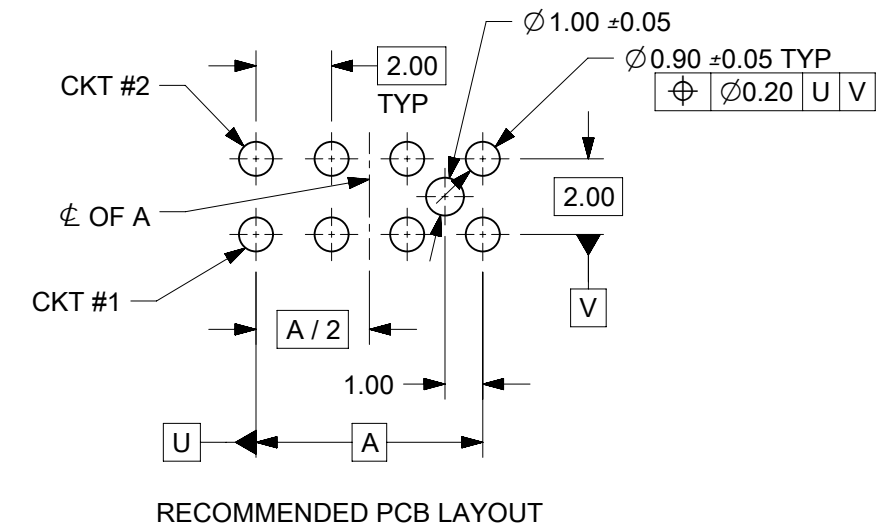
VIEW FOR HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS



DETAIL 7

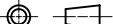


DETAIL 8

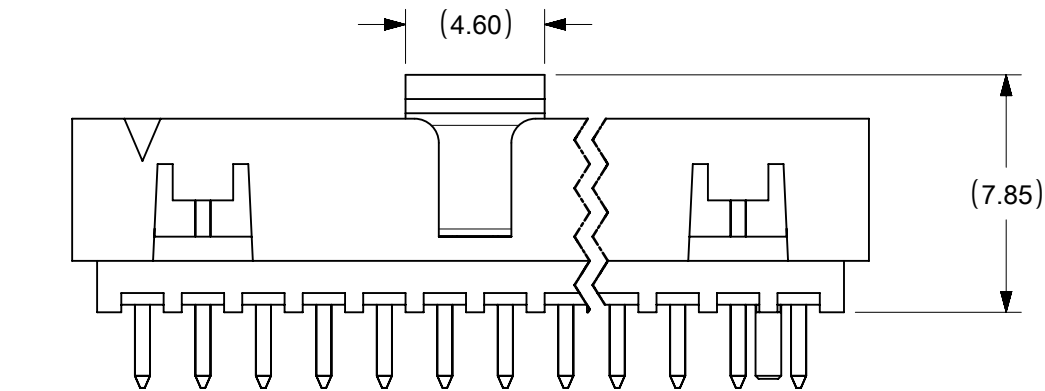
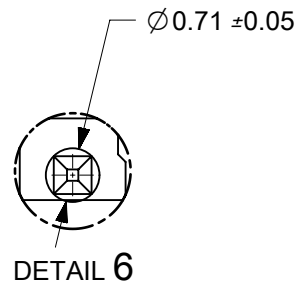
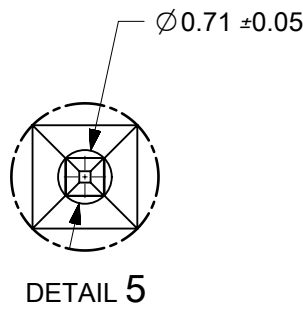
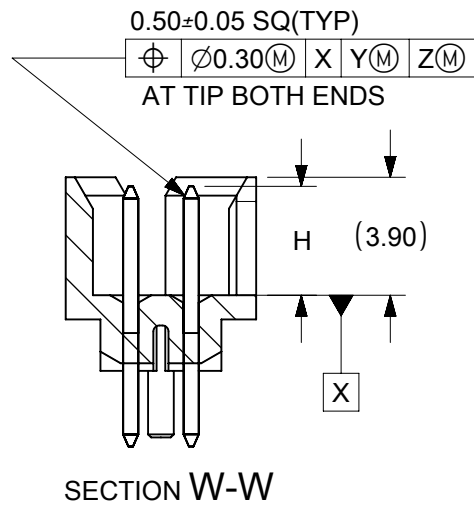
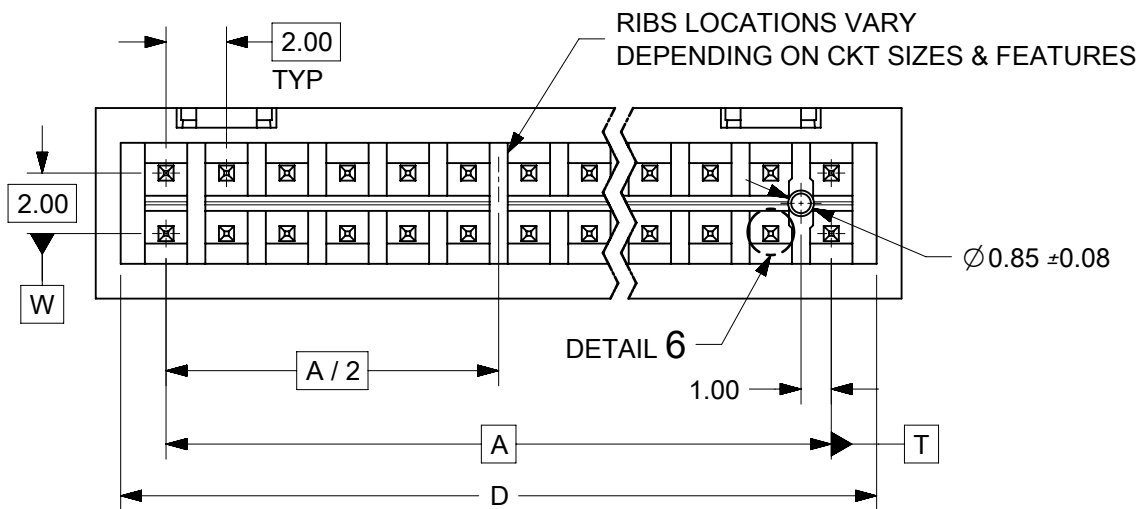
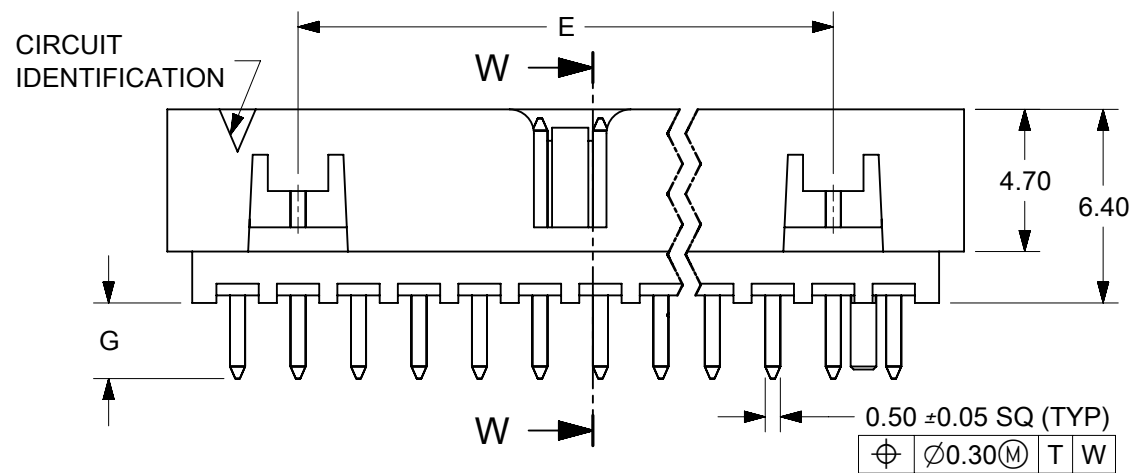
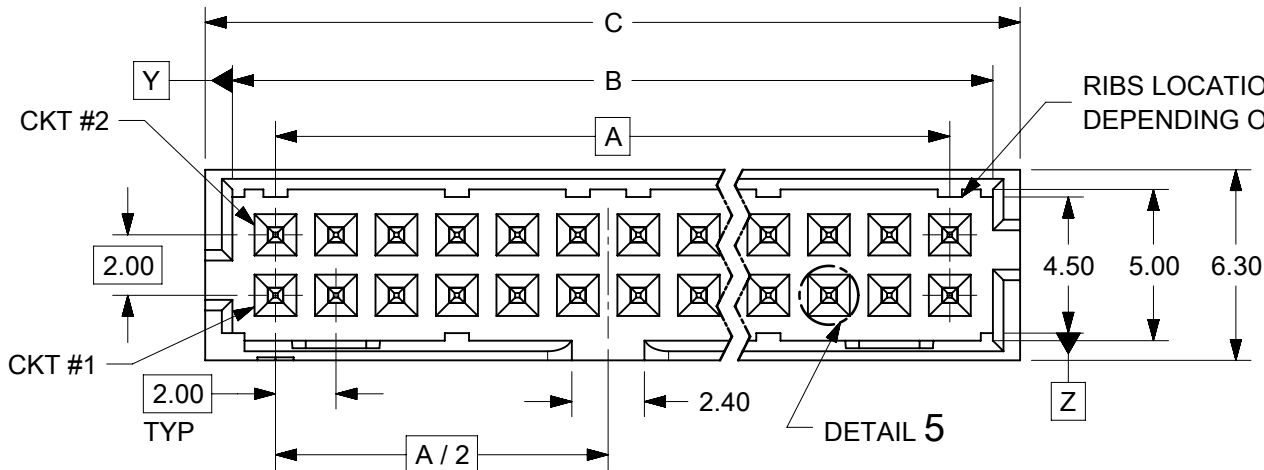


NOTES:

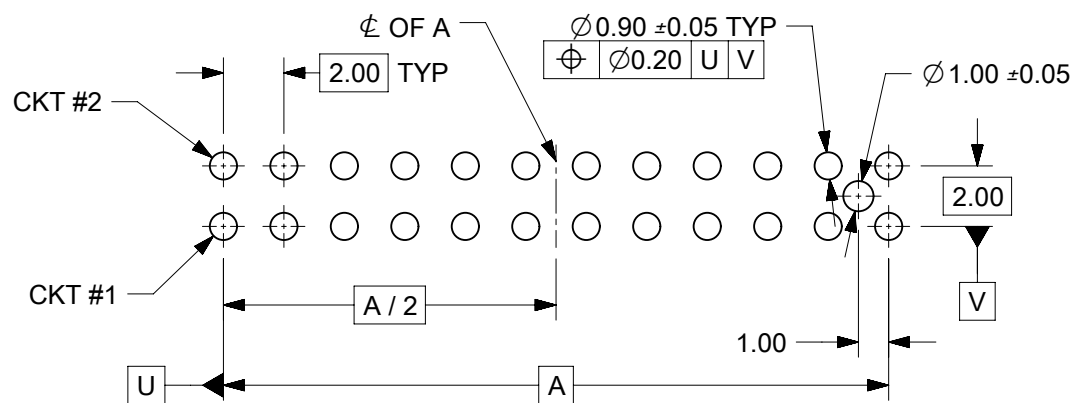
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP 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		CURRENT REV DESC: ADDED BTB DIST.	
mm		NTS			
GENERAL TOLERANCES (UNLESS SPECIFIED)					
	MM	INCH			
 = 0	4 PLACES ±	±	EC NO: 619055		
 = 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		
 = 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		
 = 0	THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER
			A3-SIZE	87831	CUSTOMER
					SHEET NUMBER
					6 OF 14

14 TO 50 CIRCUITS



VIEW FOR HEADER WITH CAP



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		CURRENT REV DESC: ADDED BTB DIST.		molex			
	DIMENSION UNITS		SCALE		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
▽ = 0	mm		NTS		PRODUCT CUSTOMER DRAWING			
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		MM		DOCUMENT NUMBER			
▽ = 0			INCH		DOC TYPE DOC PART REVISION			
▽ = 0	4 PLACES ±		±		SD-87831-0001			
▽ = 0	3 PLACES ±		±		PSD 001 A16			
▽ = 0	2 PLACES ±		0.2 ±		MATERIAL NUMBER			
▽ = 0	1 PLACE ±		±		CUSTOMER			
▽ = 0	0 PLACES ±		±		SEE TABLE			
▽ = 0	ANGULAR TOL ±		3.0 °		GENERAL MARKET			
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		SHEET NUMBER			
▽ = 0			A3-SIZE		9 OF 14			

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																	

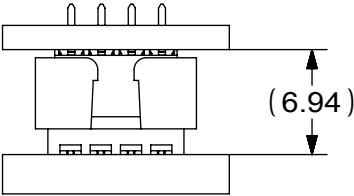
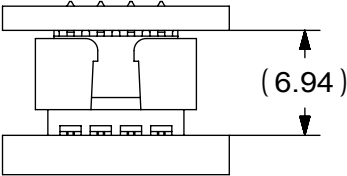
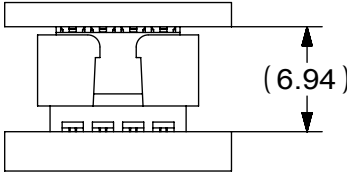
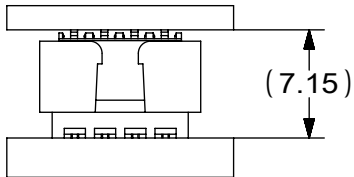
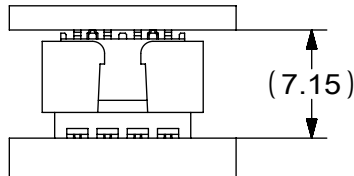
10	9	8	7	6	5	4	3	2	1									
32 TO 40 CIRCUITS																		
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
32	87831-3219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	30.00	32.85	34.65	33.00	26.00	N.A	2.50	3.60±0.20
	87831-3220	N.A	N.A	2														
	87831-3221	N.A	N.A	3														
	87831-3236	N.A	N.A	4														
	87831-3228	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-3229	N.A	N.A	3														
34	87831-3419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	32.00	34.85	36.65	35.00	28.00	N.A	2.50	3.60±0.20
	87831-3420	N.A	N.A	2														
	87831-3421	N.A	N.A	3														
	87831-3436	N.A	N.A	4														
	87831-3428	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-3429	N.A	N.A	3														
	87831-3435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50	
36	87831-3619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	34.00	36.85	38.65	37.00	30.00	N.A	2.50	3.60±0.20
	87831-3620	N.A	87831-5564	2														
	87831-3621	N.A	N.A	3														
	87831-3636	N.A	N.A	4														
	87831-3628	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-3629	N.A	N.A	3														
38	87831-3819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	36.00	38.85	40.65	39.00	32.00	N.A	2.50	3.60±0.20
	87831-3820	N.A	N.A	2														
	87831-3821	N.A	N.A	3														
	87831-3836	N.A	N.A	4														
	87831-3828	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-3829	N.A	N.A	3														
40	87831-4019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	38.00	40.85	42.65	41.00	34.00	N.A	2.50	3.60±0.20
	87831-4020	N.A	N.A	2														
	87831-4021	N.A	N.A	3														
	87831-4036	N.A	N.A	4														
	87831-4028	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4029	N.A	N.A	3														
	87831-4010	N.A	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			= 0	MUST REMAIN WITHIN DIMENSIONS		A3-SIZE	87831	SEE TABLE	GENERAL MARKET	12 OF 14				
FORMAT: Mat-lega-master-ib-prod-A3 REVISION: D DATE: 2018/01/18		9		8		7		6		5		4		3		2		1	

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

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DIMENSION UNITS

mm

SCALE

NTS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

±

0.2

±

1 PLACE

±

±

0 PLACES

±

±

ANGULAR TOL

±

3.0 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

CURRENT REV DESC: ADDED BTB DIST.

EC NO: 619055

DRWN: NMANE02

CHK'D: NMANE02

APPR: MRAMAKRISHNA

2019/03/25

2019/07/09

2019/07/09

INITIAL REVISION:

DRWN: DRWN BY

APPR: APPR BY

XXXX/XX/XX

XXXX/XX/XX

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A16

PRODUCT CUSTOMER DRAWING

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

14 OF 14

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

87831

GENERAL MARKET

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

mo

lex

MILLIGRID

2MM PITCH, THROUGH HOLE VERTICAL SHROUDED
HEADER

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A16

INITIAL REVISION:

DRWN: DRWN BY

APPR: APPR BY

XXXX/XX/XX

XXXX/XX/XX

EC NO: 619055

DRWN: NMANE02

CHK'D: NMANE02

APPR: MRAMAKRISHNA

2019/03/25

2019/07/09

2019/07/09

CURRENT REV DESC: ADDED BTB DIST.

DOCUMENT STATUS

P1

RELEASE DATE

2019/07/09

06:47:12

FORMAT: Mfg-Prod-Header-IB-prod-A3
REVISION: D
DATE: 2018/01/15

Mouser Electronics

Authorized Distributor

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[87831-1032](#)