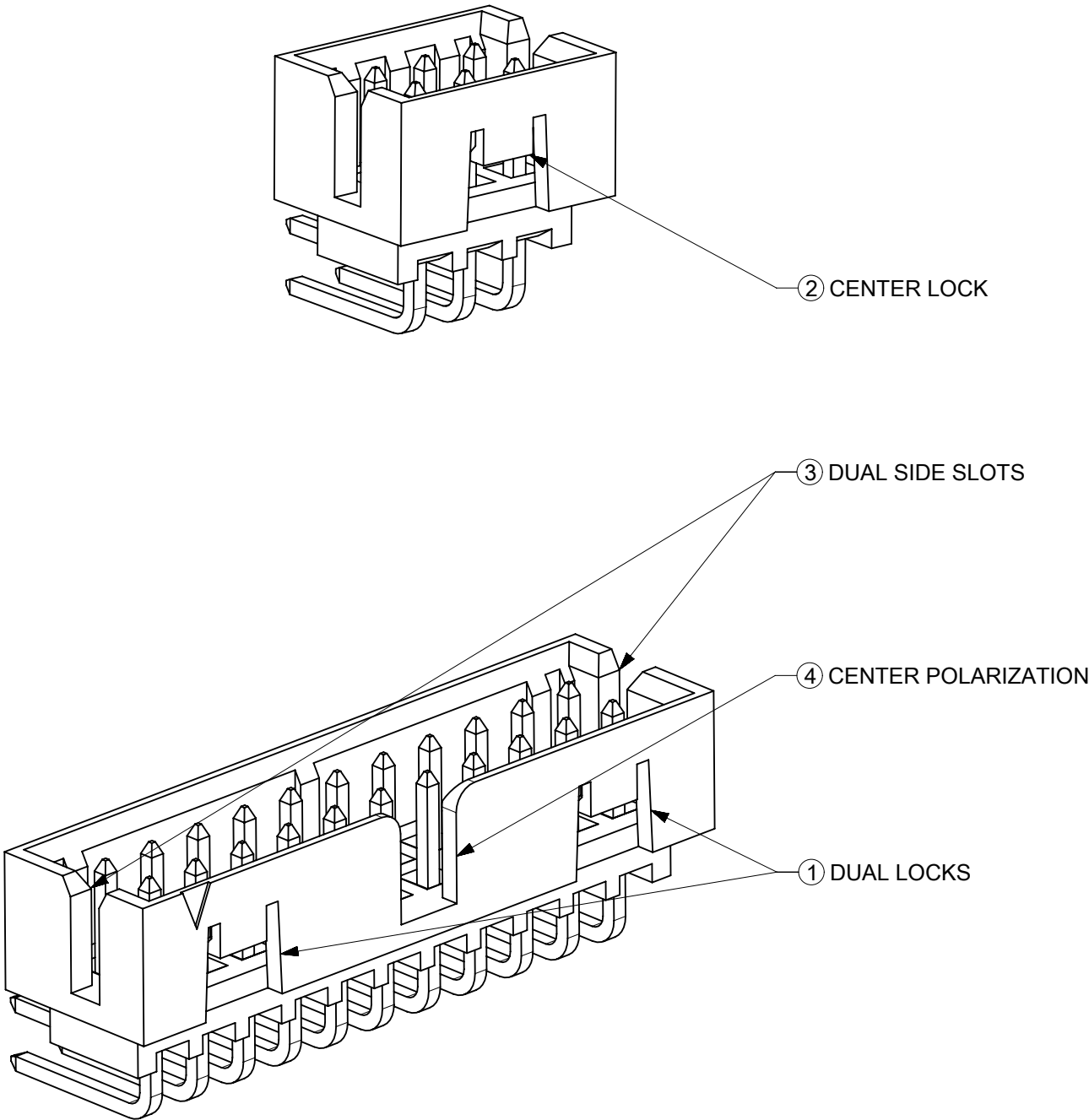


FEATURES SELECTION GUIDE



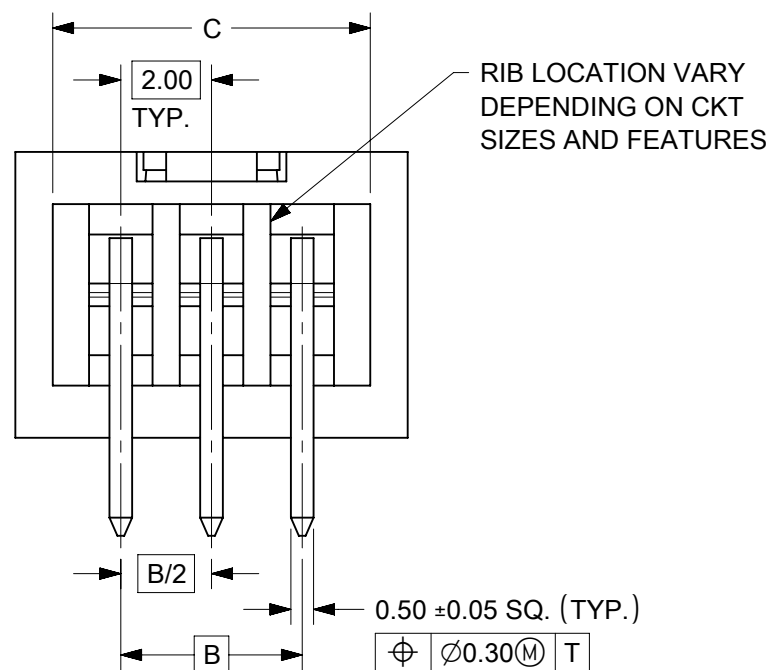
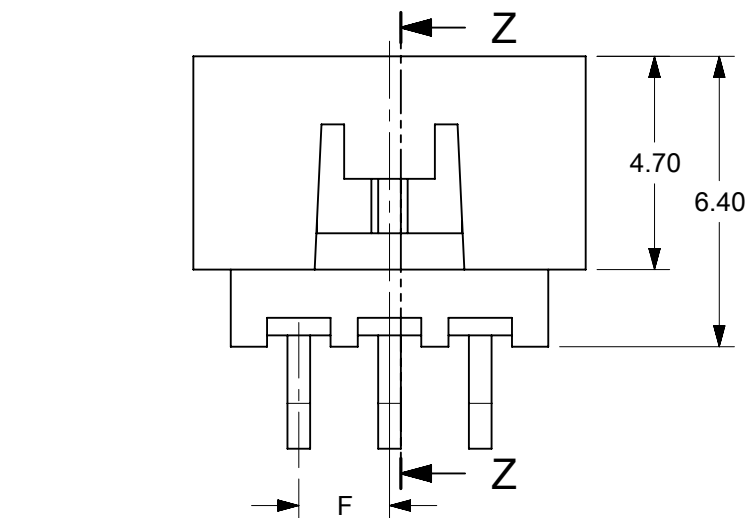
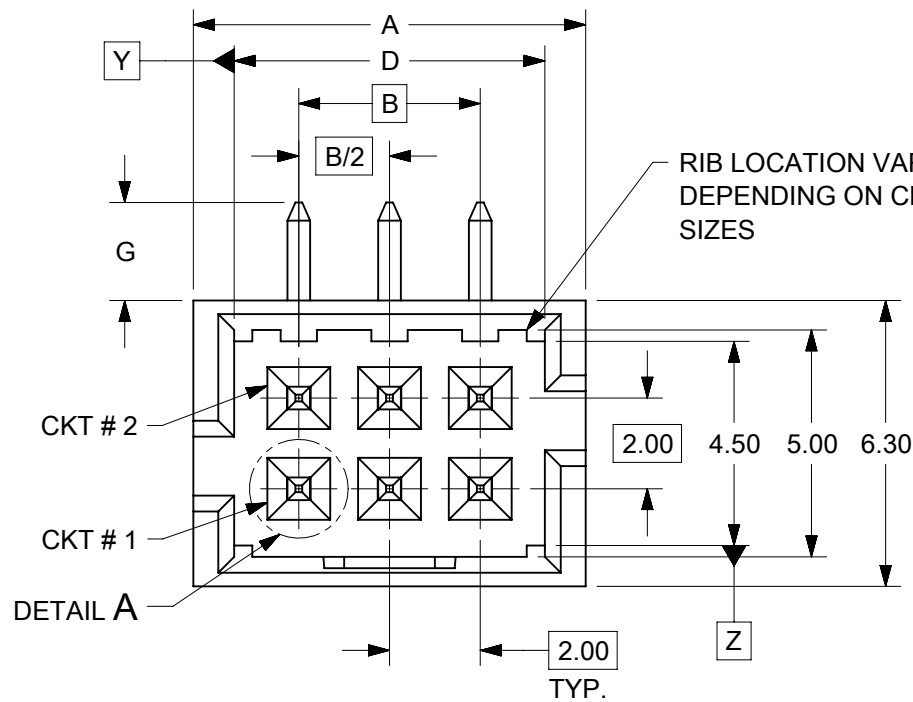
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	②CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

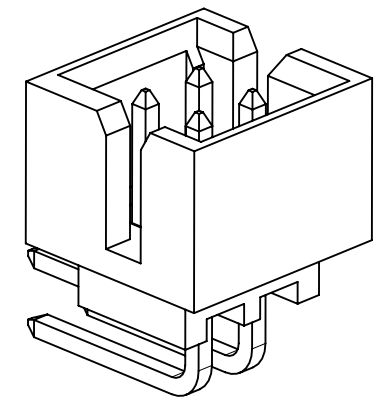
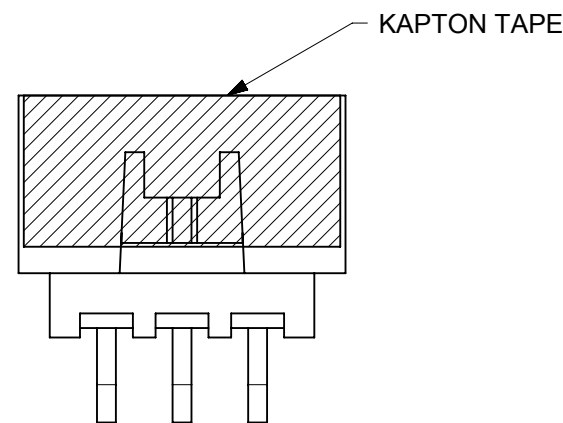
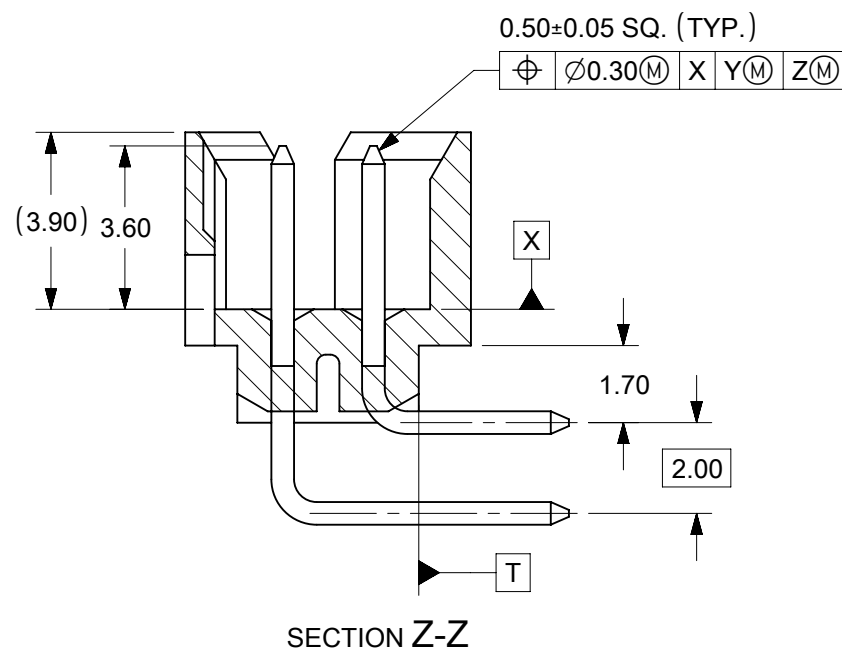
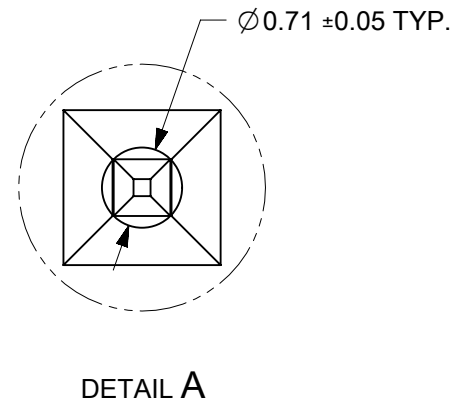
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

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	MM		NTS										
		4 PLACES	±	±	DRWN BY		DATE										
		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
		A14		REV				A3				87833		SEE TABLE		GENERAL MARKET	
										DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
										SD-87833-0001		PSD		001		1 OF 9	

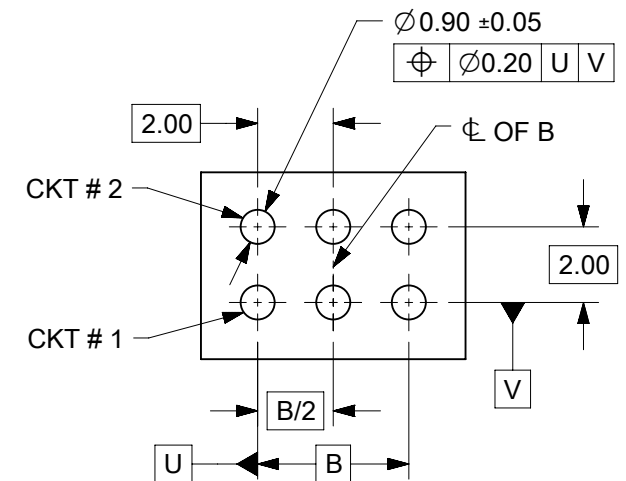
RELEASE STATUS	P1	RELEASE DATE	2022/11/07	17:03:16
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4 TO 6 CIRCUITS



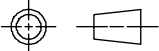
ISO VIEW OF HEADER
DUAL SIDE SLOTS



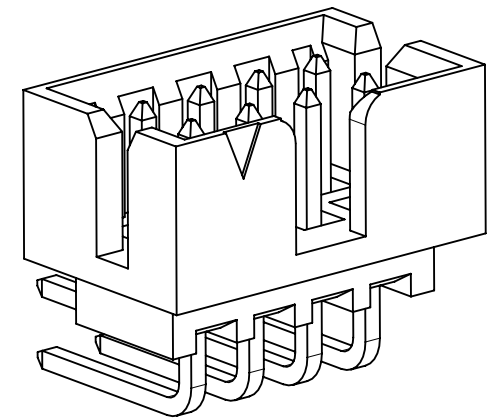
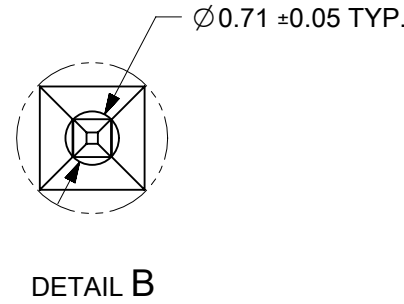
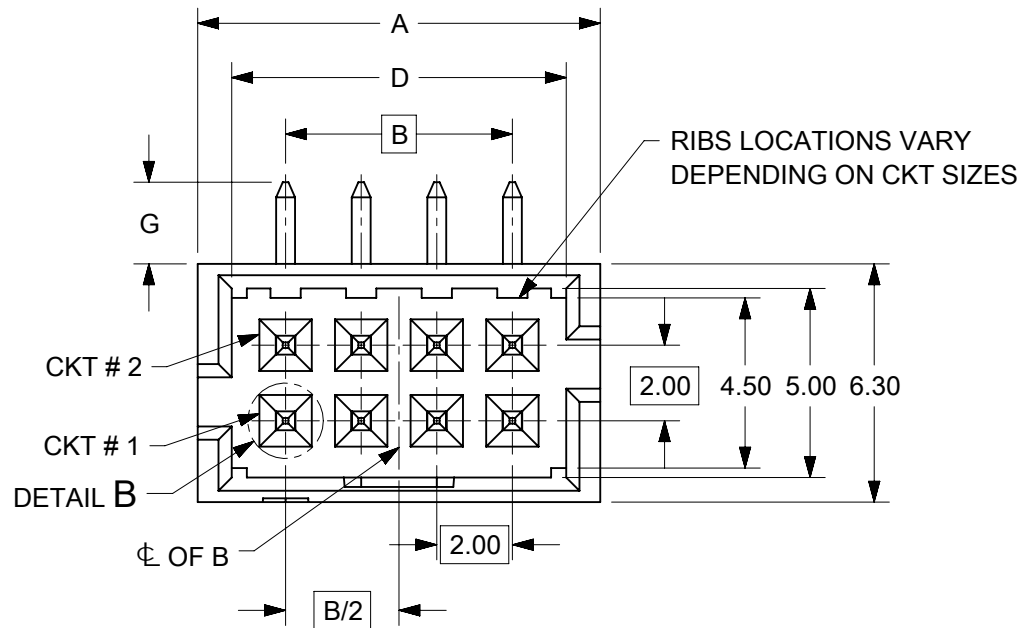
RECOMMENDED PCB LAYOUT

NOTES:

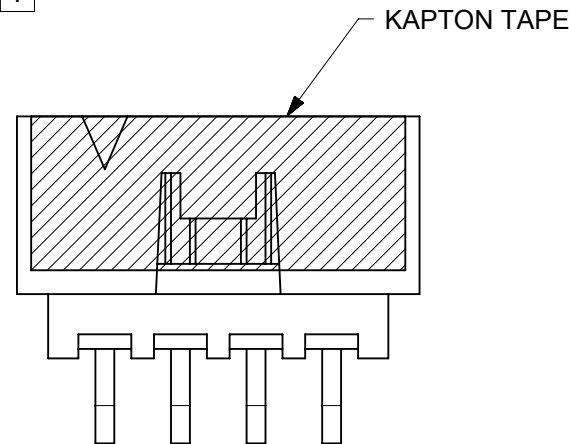
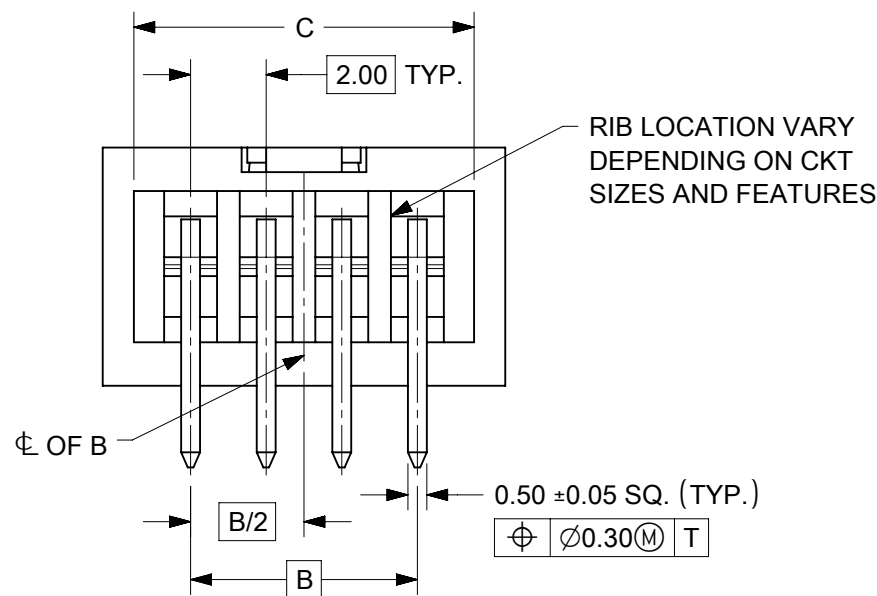
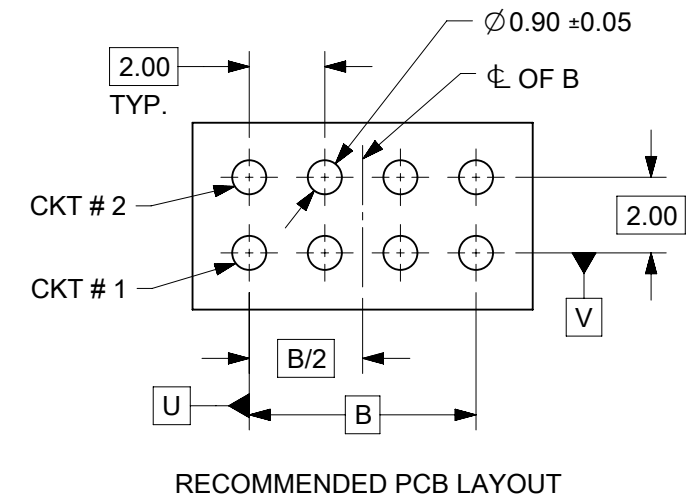
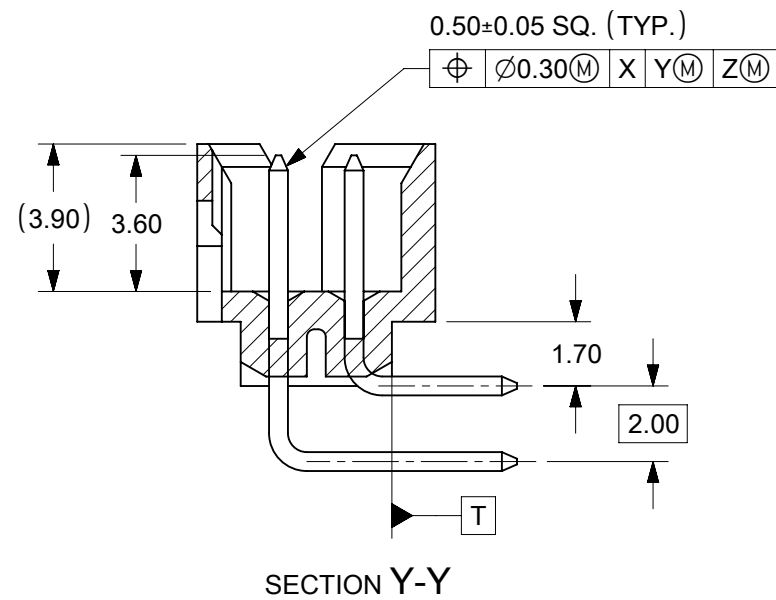
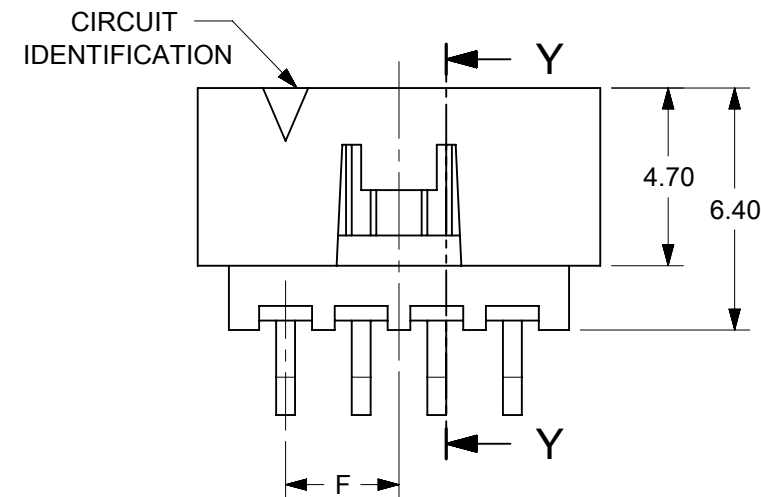
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK.
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
2. FINISHES: REFER TO PLATING OPTIONS.
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND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

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®				
					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						
		A14	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3			87833	SEE TABLE		GENERAL MARKET
DOCUMENT NUMBER SD-87833-0001										DOC TYPE PSD	DOC PART 001	SHEET NUMBER 2 OF 9	

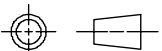
8 TO 12 CIRCUITS

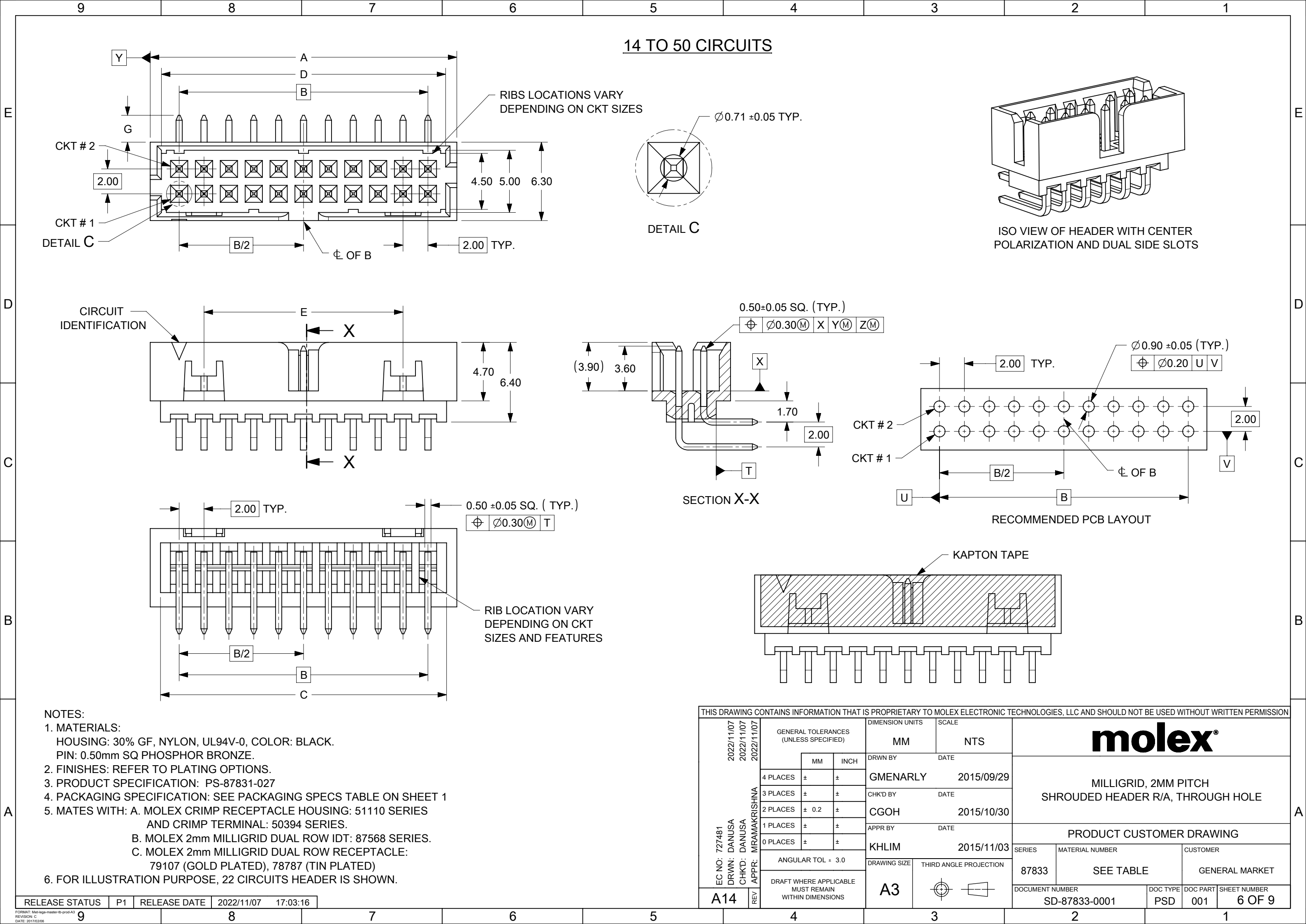


ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



- 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 REV / APPR: MRAMAKRISHNA	2022/11/07	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE		molex®					
	2022/11/07				MM		NTS							
	2022/11/07		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		CUSTOMER		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3					87833	SEE TABLE		GENERAL MARKET		
									DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER	
A14									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 POLARI ZATION	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											
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											3.18
		87833-1621	N.A	87833-7821	N.A	3											
		87833-6120	N.A	87833-7120	N.A	2											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
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											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							3.50
		87833-6521	N.A	N.A	(A14) 87833-2037	3											
		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											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							3.50
		87833-2436	N.A	N.A	N.A	3	YES	N.A	YES	YES							
		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.																	
RELEASE STATUS		P1	RELEASE DATE		2022/11/07	17:03:16											
9		8		7		6		5		4		3		2		1	

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

2022/11/07
2022/11/07
2022/11/07

EC NO: 727481
DRWN: DANUSA
CHK'D: DANUSA
REV APPR: MIRAMAKRISHNA

A14

GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

± 0.2

±

1 PLACES

±

±

0 PLACES

±

±

ANGULAR TOL ± 3.0

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS

MM

SCALE

NTS

DRWN BY

DATE

GMENARLY

2015/09/29

CHK'D BY

DATE

CGOH

2015/10/30

APPR BY

DATE

KHLIM

2015/11/03

DRAWING SIZE

A3

THIRD ANGLE PROJECTION

87833

DOCUMENT NUMBER

SD-87833-0001

7 OF 9

SHEET NUMBER

MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE

PRODUCT CUSTOMER DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SEE TABLE

GENERAL MARKET

DOC TYPE

DOC PART

SHEET NUMBER

PSD

001

7 OF 9

[illegible]

9		8		7		6		5		4		3		2		1		
40 TO 50 CIRCUITS																		
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								
						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		
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													
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		2022/11/07		17:03:16											
9		8		7		6		5		4		3		2		1		

EC NO: 727481
DRWN: DANUSA
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REV APPR: MIRAMAKRISHNA

2022/11/07
2022/11/07
2022/11/07

GENERAL TOLERANCES
(UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

± 0.2

±

1 PLACES

±

±

0 PLACES

±

±

ANGULAR TOL ± 3.0

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION UNITS

MM

NTS

DRWN BY

DATE

GMENARLY

2015/09/29

CHK'D BY

DATE

CGOH

2015/10/30

APPR BY

DATE

KHLIM

2015/11/03

DRAWING SIZE

THIRD ANGLE PROJECTION

A3

SERIES

MATERIAL NUMBER

CUSTOMER

87833

SEE TABLE

GENERAL MARKET

DOCUMENT NUMBER

DOC TYPE

DOC PART

SHEET NUMBER

SD-87833-0001

PSD

001

9 OF 9