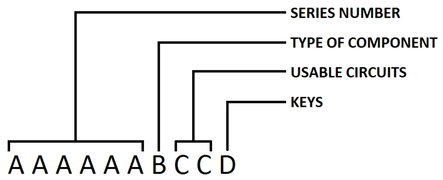
CONNTAK50 DUAL ROW RIGHT ANGLE SMT HEADERS



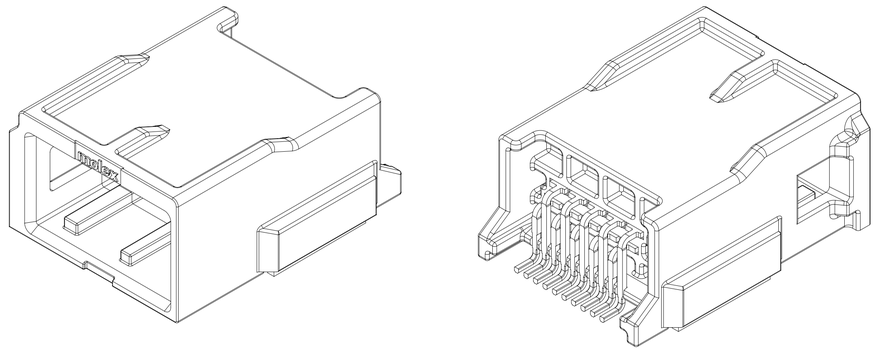
PART NUMBER EXAMPLE:

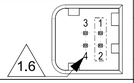
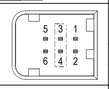
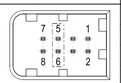
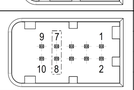
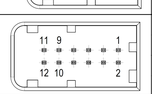
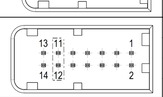
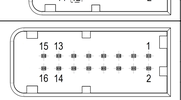
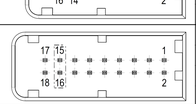
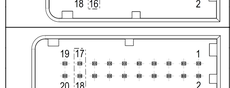
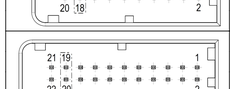
PN 2069583101
206958 - SERIES NUMBER: DUAL ROW RIGHT ANGLE SMT HEADER - STANDARD PERF
3 - TYPE OF COMPONENT: STANDARD MATERIAL; FULLY POPULATED
10 - 10 USABLE CIRCUITS
1 - KEY A

FINAL PART: 10CKT DUAL ROW RIGHT ANGLE FULLY POPULATED STANDARD PERFORMANCE SMT HEADER - KEY A

	SERIES NUMBERS (AAAAAA)	TYPE OF COMPONENT (B)	USABLE CIRCUITS (CC)	KEY (D)
MATING COMPONENT	205825 - DR TANG RECEPTACLE	2 - STD MATL; FULLY POPULATED (APPLIES TO RECEPTACLE P/N ONLY)	02 - 2 Circuits	1 - KEY A
	205826 - DR TANG RECEPTACLE WITH CPA	3 - V0 MATL; FULLY POPULATED (APPLIES TO HEADER P/N ONLY)	...	2 - KEY B
ON DRAWING	206958 - DR RIGHT ANGLE SMT HEADER - STANDARD PERF.	4 - STD MATL: LAST 2 CKTS UNPOPULATED / UNUSABLE (APPLIES TO RECEPTACLE P/N ONLY)	...	3 - KEY C
OTHER	206957 - DR VERTICAL SMT HEADER - STANDARD PERF.	5 - V0 MATL: LAST 2 CKTS UNPOPULATED / UNUSABLE (APPLIES TO HEADER P/N ONLY)	22 - 22 Circuits	4 - KEY D

10CKT HEADER:



INTERFACE	INTERFACE CKT SIZE	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	POL	COLOR	V0 MATERIAL SMT HEADER FULLY POPULATED PART NUMBER	USABLE CKTS	Weight (g)	V0 MATERIAL SMT HEADER 2CKTS UNPOPULATED PART NUMBER	USABLE CKTS	Weight (g)	STATUS
	4	11.70	9.70	0.20	4.81	0.65	5.45	0.65	A	BLACK	2069583041	4	-	2069585021	2	-	INQUIRE FOR AVAILABILITY
									B	NATURAL	2069583042	4	-	2069585022	2	-	
									C	BLUE	2069583043	4	-	2069585023	2	-	
									D	VIOLET	2069583044	4	-	2069585024	2	-	
	6	13.50	11.50	1.10	5.71	1.55	6.35	1.55	A	BLACK	2069583061	6	-	2069585041	4	-	INQUIRE FOR AVAILABILITY
									B	NATURAL	2069583062	6	-	2069585042	4	-	
									C	BLUE	2069583063	6	-	2069585043	4	-	
									D	VIOLET	2069583064	6	-	2069585044	4	-	
	8	15.30	13.30	2.00	6.61	2.45	7.25	2.45	A	BLACK	2069583081	8	-	2069585061	6	-	INQUIRE FOR AVAILABILITY
									B	NATURAL	2069583082	8	-	2069585062	6	-	
									C	BLUE	2069583083	8	-	2069585063	6	-	
									D	VIOLET	2069583084	8	-	2069585064	6	-	
	10	17.10	15.10	2.90	7.51	3.35	8.15	3.35	A	BLACK	2069583101	10	2.03	2069585081	8	1.97	AVAILABLE
									B	NATURAL	2069583102	10	2.03	2069585082	8	1.97	
									C	BLUE	2069583103	10	2.03	2069585083	8	1.97	
									D	VIOLET	2069583104	10	2.03	2069585084	8	1.97	
	12	18.90	16.90	3.80	8.41	4.25	9.05	4.25	A	BLACK	2069583121	12	2.18	2069585101	10		AVAILABLE
									B	NATURAL	2069583122	12	2.18	2069585102	10		
									C	BLUE	2069583123	12	2.18	2069585103	10		
									D	VIOLET	2069583124	12	2.18	2069585104	10		
	14	20.70	18.70	4.70	9.31	5.15	9.95	5.15	A	BLACK	2069583141	14	-	2069585121	12	-	INQUIRE FOR AVAILABILITY
									B	NATURAL	2069583142	14	-	2069585122	12	-	
									C	BLUE	2069583143	14	-	2069585123	12	-	
									D	VIOLET	2069583144	14	-	2069585124	12	-	
	16	22.50	20.50	5.60	10.21	6.05	10.85	6.05	A	BLACK	2069583161	16	2.53	2069585141	14		AVAILABLE
									B	NATURAL	2069583162	16	2.53	2069585142	14		
									C	BLUE	2069583163	16	2.53	2069585143	14		
									D	VIOLET	2069583164	16	2.53	2069585144	14		
	18	24.30	22.30	6.50	11.11	6.95	11.75	6.95	A	BLACK	2069583181	18	2.71	2069585161	16	-	AVAILABLE
									B	NATURAL	2069583182	18	2.71	2069585162	16	-	
									C	BLUE	2069583183	18	2.71	2069585163	16	-	
									D	VIOLET	2069583184	18	2.71	2069585164	16	-	
	20	26.10	24.10	7.40	12.01	7.85	12.65	7.85	A	BLACK	2069583201	20	-	2069585181	18	-	INQUIRE FOR AVAILABILITY
									B	NATURAL	2069583202	20	-	2069585182	18	-	
									C	BLUE	2069583203	20	-	2069585183	18	-	
									D	VIOLET	2069583204	20	-	2069585184	18	-	
	22	27.90	25.90	8.30	12.91	8.75	13.55	8.75	A	BLACK	2069583221	22	3.06	2069585201	20	3.00	AVAILABLE
									B	NATURAL	2069583222	22	3.06	2069585202	20	3.00	
									C	BLUE	2069583223	22	3.06	2069585203	20	3.00	
									D	VIOLET	2069583224	22	3.06	2069585204	20	3.00	

PERFORMANCE MARK: S

NOTES:

VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   - 1.1 APPLICATION SPECIFICATION SEE: 2046310000-AS
   - 1.2 PRODUCT SPECIFICATION SEE: 2046310000-PS
   - 1.3 PACKAGING SPECIFICATION PER MOLEX DRAWING: 2069579000
     - 1.3.1 PACKAGING IS TAPE & REEL
   - 1.4 COMPATIBLE WITH STANDARD AK INTERFACE C-114-94000-20 REV A1
   - 1.5 CONFORMS TO MOLEX AK INTERFACE 2046310002 REV A
     - 1.5.1 MOLEX AK INTERFACE IS PART OF PPAP
   - 1.6 INDICATED CIRCUITS DO NOT CONTAIN PINS IN DEPOPULATED HEADER VERSION
   - 1.7 TRACEABILITY TO BE MARKED IN AREA SHOWN. MARK IS CODED AS FOLLOWS:
     - ROW 1 (XXXXXX):
       - "XXXXXX" IS MOLEX SMT HEADER SERIES NUMBER
     - ROW 2 (YYYY PZ):
       - "YYYY" IS PART SUFFIX (LAST 4 DIGITS OF PART NUMBER)
       - "P" IS PERFORMANCE MARK. SEE PART TABLE FOR MARKING CODE
       - "Z" IS ASSEMBLY LINE ("1" INDICATES ORIGINAL LINE, "2" IS FIRST CAPACITY LINE, ETC.)
     - ROW 3 (HHDDDYY):
       - 1ST & 2ND DIGITS (HH): HOUR OF ASSEMBLY (EXAMPLE: 15:00 > '15'; 7:00 -> '07')
       - 3RD THRU 5TH DIGITS (DDD): JULIAN DATE (EXAMPLE: FEBRUARY 3RD -> '034')
       - 6TH & 7TH DIGITS (YY): LAST 2 DIGITS OF CALENDAR YEAR (EXAMPLE: 2013 -> '13')
   - 1.8 DURING SHIPPING / HANDLING AND REFLOW EXPOSURE COPLANARITY MAY GO ABOVE THE 0.10MM LIMIT PART SOLDERABILITY IS MAINTAINED IN THIS CONDITION.

2. DESIGN - MATERIALS:
   - 2.1 SHROUD (PLASTIC HOUSING):
     - 2.1.2: V0 MATERIAL HOUSINGS: PA9T-GF30%
   - 2.2 PINS:
     - 2.2.1 STANDARD PERFORMANCE PINS:
       BASE MATERIAL: C26000 BRASS
       UNDERPLATING (CONTACT REGION): NICKEL 1.0 - 1.8 µm
       OVERPLATING (CONTACT REGION): MATTE TIN 1.0 - 3.0 µm

3. DESIGN - GEOMETRY:
   - 3.1 GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009

	E5	UPDATED: ADDED WEIGHTS TO BOM TABLE
	E4:	UPDATED: MOLEX SYMBOL COUNT
	E3:	UPDATED: ADDED WEIGHTS TO BOM TABLE
	E2	UPDATED: 12 16 CKT PRODUCTS ADD TO FAMILY WITH NO VOID CPA
INSPECTION BALLOON LOG	E1	UPDATED: 1.6 SYMBOL ARROW LOCATION TO CORRECT CALLOUT ON BOM TABLE
PER DRAWING REVISION: E4	E	REMOVED: NOTE 2.1.1; ALL SPS PART NUMBERS
TOTAL BALLOONS: 14	D5	ADDED: NOTE 1.8; DIM 11a UPDATED: DIM 1
ADDED BALLOONG NUMBERS: 11a	D4	UPDATED: UNDERPLATING THICKNESS (NOTE 2.2.1)
	D3	CORRECTED: DIM C DIMENSIONS
REMOVED BALLOON NUMBERS:	D2	UPDATED: TOLERANCE ON DIM 5 FROM (+0.05/-0.10) TO (+0.05/-0.15).
	REV	DESCRIPTION

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

FUNCTIONAL SYMBOLS: EA = 0; EC = 0; EP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm; SCALE: 5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADD THE PART WEIGHT OF 18CKT

STATUS: Production

DRWN:	Kenneth Dai	2025-11-27
CHK'D:	Nick Wang	2025-12-02
APPR:	Ringo Hu	2025-12-04

THIRD ANGLE PROJECTION

molex

CONNTAK50 DR R/A SMT HEADER

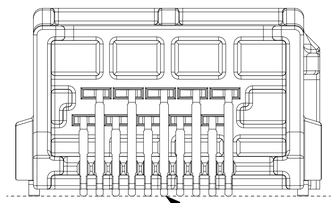
PRODUCT CUSTOMER DRAWING

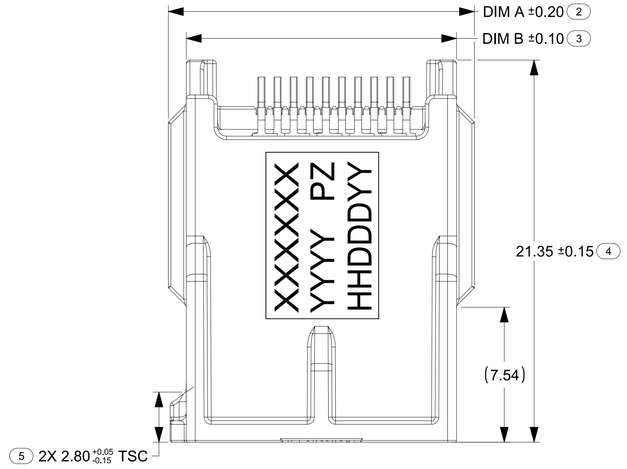
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2046320003	PSD	000	E5

DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
D-SIZE	204632		GENERAL MARKET	1 OF 2

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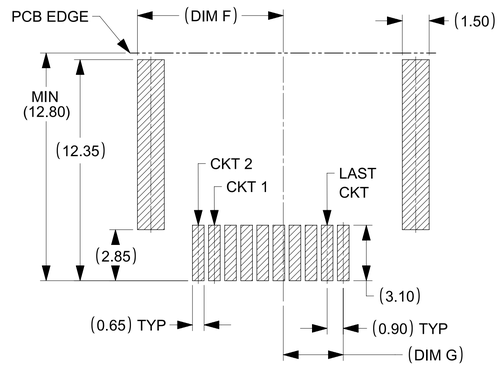
10CKT KEY A (2069583101) SHOWN EXCEPT WHERE NOTED
REFER TO 2046310002 FOR INTERFACE DIMENSIONS

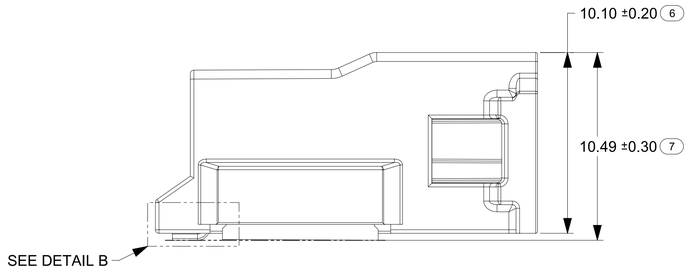


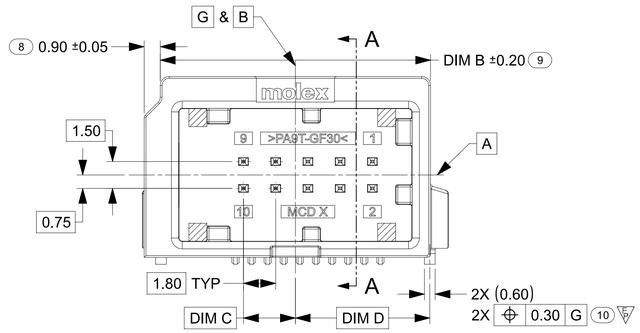


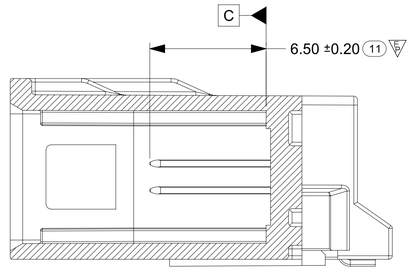
POSSIBLE PCB LAYOUT

LAND PATTERN SHOWN AT MMC

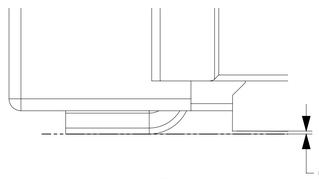




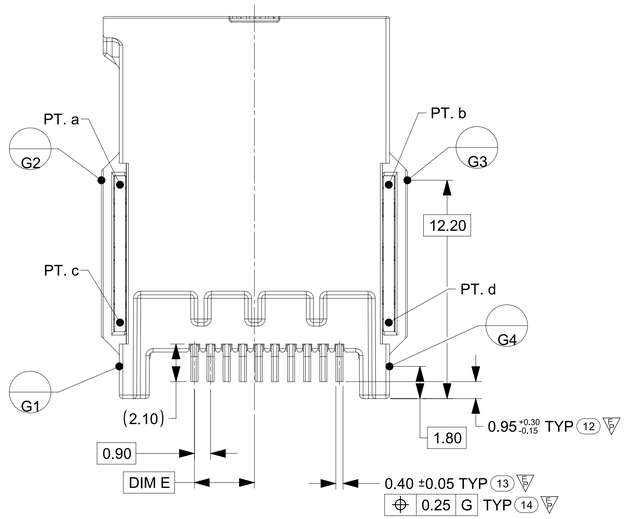




SECTION A-A

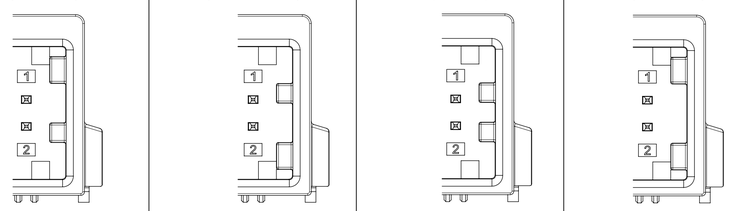


DETAIL B
SCALE 20:1



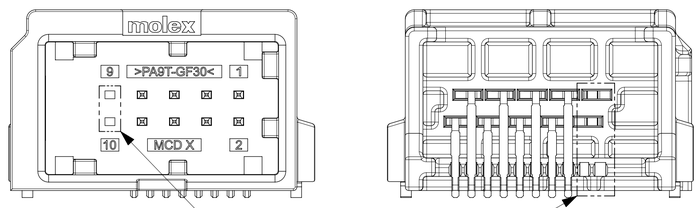
KEYING OPTIONS

KEY A (BLACK)	KEY B (NATURAL)	KEY C (BLUE)	KEY D (VIOLET)



DEPOPULATED HEADER

8CKT DEPOPULATED HEADER (10CKT INTERFACE) SHOWN
PART NUMBER: 2069585081



FUNCTIONAL SYMBOLS
EA = 0
EC = 0
EP = 6
DIVISIONAL SYMBOLS

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DIMENSION UNITS	SCALE
mm	6:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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molex

CONNTAK50 DR R/A SMT HEADER

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2046320003	PSD	000	E5

DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
D-SIZE	204632		GENERAL MARKET	2 OF 2

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