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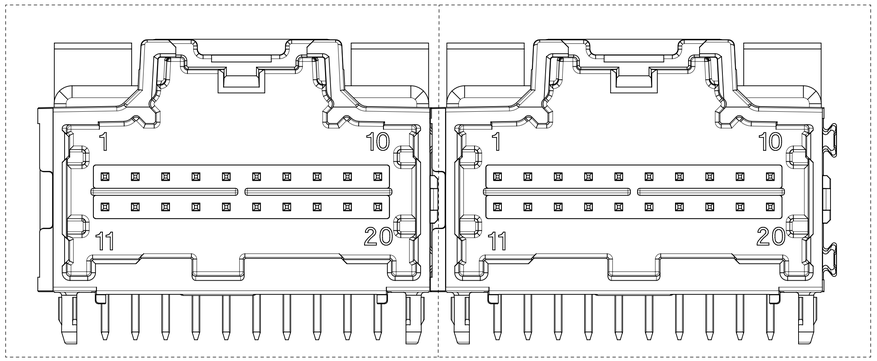
1	NOTES DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION
2	TWO BAY LAYOUT FLUSH MOUNTING RECOMMENDED PCB LAYOUT
3	SINGLE BAY LAYOUT
4	RECOMMENDED SINGLE BAY PCB LAYOUT

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION

2 BAY PART NUMBER (TUBE PKG)	2 BAY PART NUMBER (SMALL TRAY PKG)	2 BAY PART NUMBER (TRAY PKG)	BAY A			BAY B			DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	SOLDERING METHOD
			CKT	TYPE	POL	CKT	TYPE	POL					
34997-7000	TBD	34997-2000	20	0.64mm	A	20	0.64mm	B	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
34997-7001	TBD	34997-2001	20	0.64mm	C	8	0.64mm	A	51.70	49.23	27.94	12.70	WAVE SOLDERING OR REFLOW SOLDERING
34997-7002	TBD	34997-2002	20	0.64mm	C	12	0.64mm	A	56.78	54.31	27.94	17.78	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2003	8	0.64mm	A	10	HYBRID	A	51.70	49.23	12.70	27.94	WAVE SOLDERING
TBD	TBD	34997-2004	12	0.64mm	A	8	0.64mm	A	41.54	39.07	17.78	12.70	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2005	20	0.64mm	C	20	0.64mm	B	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
TBD	(K9) 349975015	34997-2006	10	HYBRID	A	20	0.64mm	A	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2007	12	0.64mm	A	8	0.64mm	B	41.54	39.07	17.78	12.70	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2008	20	0.64mm	A	16	0.64mm	C	61.86	59.39	27.94	22.86	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2009	20	0.64mm	A	16	0.64mm	A	56.78	54.31	27.94	17.78	WAVE SOLDERING OR REFLOW SOLDERING
34997-7010	TBD	34997-2010	20	0.64mm	A	8	0.64mm	A	51.70	49.23	27.94	12.70	WAVE SOLDERING OR REFLOW SOLDERING
34997-7011	TBD	34997-2011	20	0.64mm	B	8	0.64mm	A	51.70	49.23	27.94	12.70	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2012	12	0.64mm	A	12	0.64mm	C	46.62	44.15	17.78	17.78	WAVE SOLDERING OR REFLOW SOLDERING
34997-7013	TBD	34997-2013	20	0.64mm	B	20	0.64mm	C	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
34997-7014	(K8) 34997-5014	34997-2014	10	HYBRID	B	10	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2015	12	0.64mm	B	16	0.64mm	A	51.70	49.23	17.78	22.86	WAVE SOLDERING OR REFLOW SOLDERING
34997-7016	TBD	34997-2016	10	HYBRID	B	20	0.64mm	A	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
34997-7017	TBD	34997-2017	16	0.64mm	B	16	0.64mm	C	56.78	54.31	22.86	22.86	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2018	14	HYBRID	A	10	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34997-2019	12	0.64mm	A	20	0.64mm	B	56.78	54.31	17.78	27.94	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2020	10	HYBRID	B	12	0.64mm	A	56.78	54.31	27.94	17.78	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2021	12	0.64mm	A	8	0.64mm	B	41.54	39.07	17.78	12.70	WAVE SOLDERING OR REFLOW SOLDERING
TBD	TBD	34997-2022	10	HYBRID	A	12	0.64mm	A	56.78	54.31	27.94	17.78	WAVE SOLDERING OR REFLOW SOLDERING
(K) TBD	TBD	34997-2023	14	HYBRID	A	14	HYBRID	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
(K) TBD	TBD	34997-2024	14	HYBRID	A	8	0.64mm	B	51.70	49.23	27.94	12.70	WAVE SOLDERING
(K) TBD	TBD	34997-2025	8	0.64mm	A	20	0.64mm	C	51.70	49.23	12.70	27.94	WAVE SOLDERING OR REFLOW SOLDERING
(K1) TBD	TBD	34997-2026	14	HYBRID	C	10	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING
(K2) TBD	TBD	34997-2027	10	HYBRID	B	10	HYBRID	C	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
(K3) TBD	TBD	34997-2028	8	0.64mm	A	10	HYBRID	A	51.70	49.23	12.70	27.94	WAVE SOLDERING OR REFLOW SOLDERING
(K4) TBD	TBD	34997-2029	12	0.64mm	A	20	0.64mm	A	56.78	54.31	17.78	27.94	WAVE SOLDERING OR REFLOW SOLDERING
(K4) (K5) 34997-7030	TBD	34997-2030	10	HYBRID	A	20	0.64mm	D	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
(K6) TBD	TBD	34997-2031	10	HYBRID	A	10	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING
(K7) TBD	TBD	34997-2032	10	HYBRID	C	10	HYBRID	B	66.94	64.47	27.94	27.94	WAVE SOLDERING OR REFLOW SOLDERING

2 BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY (P/N: 34997-2000 SHOWN)



NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

a. CONNECTOR HEADER MUST BE VALIDATED TO THE FOLLOWING FUNCTIONAL REQUIREMENTS:

PRODUCT SPECIFICATION:
8 - 20 CKT 0.64MM PRODUCT SPEC: PS-34729-020 / PS-31408-100
10CKT HYBRID PRODUCT SPEC: PS-31372-100
14CKT HYBRID PRODUCT SPEC: PS-34969-100

b. APPLICATION REQUIREMENTS (REFERENCE ONLY):

APPLICATION SPECIFICATION: AS-34729-020 / AS-31408-100

(K8) c. PACKAGING SPECIFICATION PER MOLEX DRAWING PK-31300-892 (TRAY)/349975014-PK(SMALL TRAY)

d. PACKAGING SPECIFICATION PER MOLEX DRAWING PK-31301-063 (TUBE)

2. DESIGN: MATERIALS

a. SHROUD (PLASTIC HOUSING):
RESIN - SPS 30%GF

HOUSING COLOR:
BLACK - POLARIZATION 'A'
GREY - POLARIZATION 'B'
BROWN - POLARIZATION 'C'
GREEN - POLARIZATION 'D'

b. 0.64MM PINS:
BASE MATERIAL: C26000
PLATING TYPE: AS NOTED

c. 1.5 / 2.8MM BLADES:
BASE MATERIAL: C19400
PLATING TYPE: AS NOTED

(K5) d. PIN ALIGNMENT PLATE: RESIN - SPS 30%GF - 20% REGRIND MAX. BY WEIGHT

3. PLATING REQUIREMENTS:

a. UNDERPLATING - OVERALL NICKEL

b. OVERPLATING - OVERALL TIN

4. FOR ADDITIONAL INFORMATION AND DIMENSIONS OF INDIVIDUAL BAYS
REFER TO THE FOLLOWING SINGLE BAY DRAWINGS:
8 - 20 CKT 0.64MM: SD-34691-601
10CKT HYBRID: SD-34696-100
14CKT HYBRID: SD-34773-010

5. G DENOTES DIMENSIONS THAT MAY BE QUALIFIED WITH GAUGE.

(K6) 6. 14 CKT IS NOT APPLIED TO THE REFLOW SOLDERING PROCESS BUT IT CAN BE USED FOR WAVE SOLDERING PROCESS

REV.	REV. DESCRIPTION	EC#	DATE
K9	NEW SMALL TRAY PART NUMBER ADDED TO BOMB CHART (349975015)	CO-000024558	2025.04
K8	ADDED ONE COLUMN OF SMALL TRAY PKG IN SHEET 1 ADDED THE SMALL TRAY PKG DRAWING NUMBER IN NOTES ADDED NEW P/N 34997-5014 IN CHART OF SHEET 1	CO-000013041	2024.08
K7	ADDED NEW PART NUMBER IN CHART OF SHEET 1	CO-000007537	2023.11
K6	1. ADDED NEW PART NUMBER IN CHART OF SHEET 1 2. ADDED SOLDERING METHOD IN DIMENSIONAL CHART IN SHEET 1	CO-000004665	2023.08
K5	ADDED NEW TUBE PKG P/N IN CHART OF SHEET 1 AND ADDED NOTE 2D IN GENERAL NOTES	CO-000002078	2022.12
K4	ADDED NEW PART NUMBERS IN CHART OF SHEET 1	CO-000001794	2022.12
K3	ADDED NEW PART NUMBER IN CHART OF SHEET 1	CO-000001428	2022.09
K2	ADDED NEW PART NUMBER IN CHART OF SHEET 1	CO-000001303	2022.08
K1	1 UPDATED TEMPLATE 2 ADDED NEW PART NUMBER IN CHART OF SHEET 1	CO-000001166	2022.07
K	1 UPDATED NOTES 2 ADDED NEW PART NUMBERS IN CHART OF SHEET1 3 REMOVED DIM 9,10,11,12 BALLOON FROM SHEET 2 4 ADDED SHEET 4 FOR PCB LAYOUT OF SINGLE BAY	CO-000000216	2021.12

INSPECTION BALLOON NUMBER LOG

PER DRAWING REVISION: K8

LAST BALLOON NUMBER USED: 55

ADDED BALLOON NUMBERS:

REMOVED BALLOON NUMBERS:

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	4:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: New Small Tray Package part number added into chart (34997-5015)

STATUS: Production
DRWN: MAURICIO RUIZ 2025-04-21
CHK'D: Mario Gazca 2025-05-30
APPR: Enrique Dominguez 2025-06-06

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34997

molex

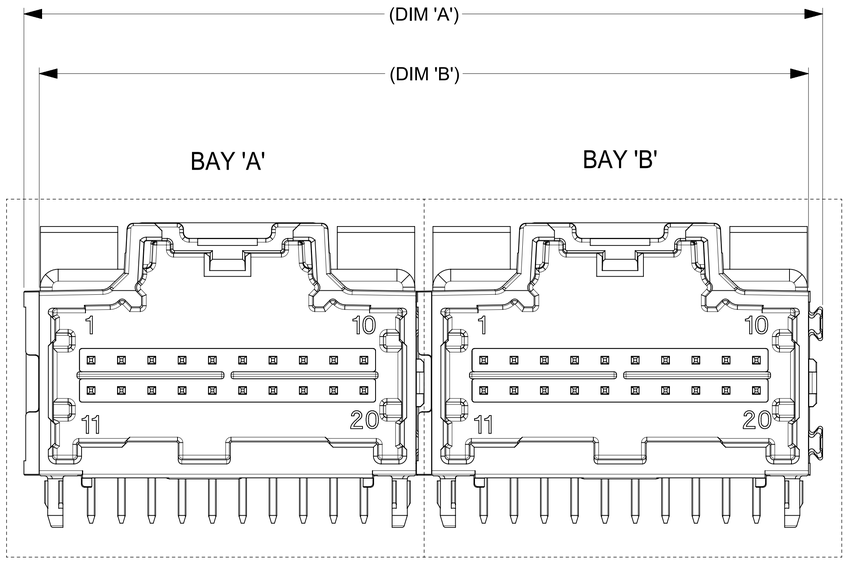
2-BAY STAC64 RIGHT ANGLE
PAP LONG PIN HEADER ASSEMBLY SALES DRAWING

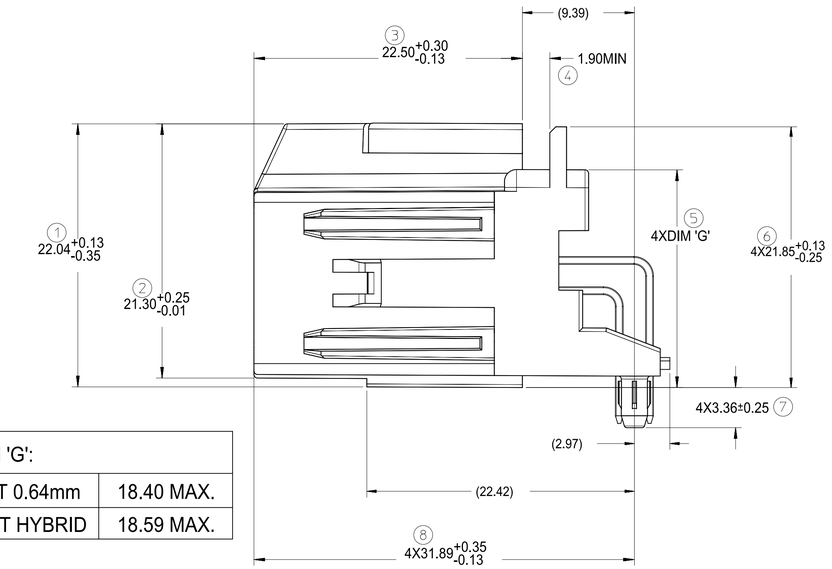
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34997-200	PSD	001	K9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 4

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
2	TWO BAY LAYOUT FLUSH MOUNTING RECOMMENDED PCB LAYOUT

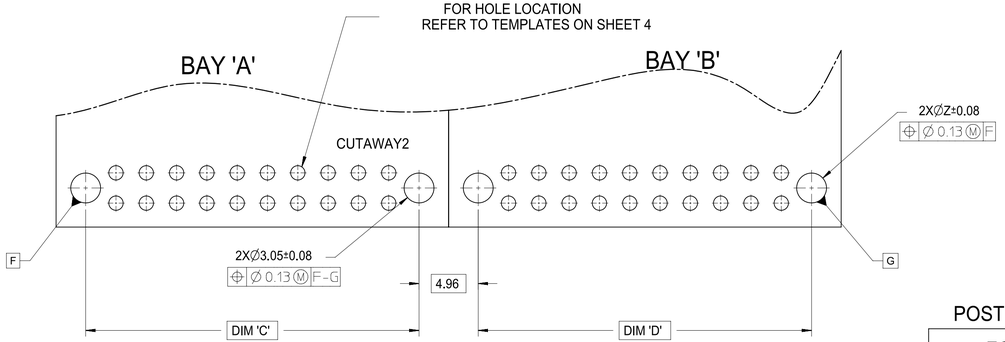




FOR DIM 'G':	
8-20CKT 0.64mm	18.40 MAX.
10/14CKT HYBRID	18.59 MAX.

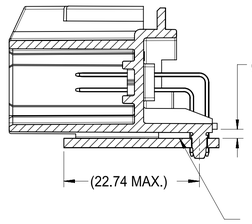
RECOMMENDED PCB LAYOUT

INSERT NECESSARY BAYS USING CHART ON SHEET 1.

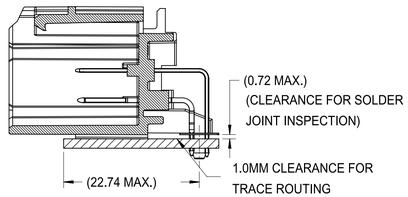


POST HOLE TABLE:	
FOR DIM 'Z':	
PRESS FIT:	2.60
DROP IN:	3.05

8-20CKT 0.64MM



10/14CKT HYBRID



FLUSH MOUNTING:
HEADER-TO-PCB
SCALE 2:1

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	4:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: New Small Tray Package part number added into chart (34997-5015)

STATUS: Production
DRWN: MAURICIO RUIZ 2025-04-21
CHK'D: Mario Gazca 2025-05-30
APPR: Enrique Dominguez 2025-06-06

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34997

molex

2-BAY STAC64 RIGHT ANGLE
PAP LONG PIN HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34997-200	PSD	001	K9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	2 OF 4

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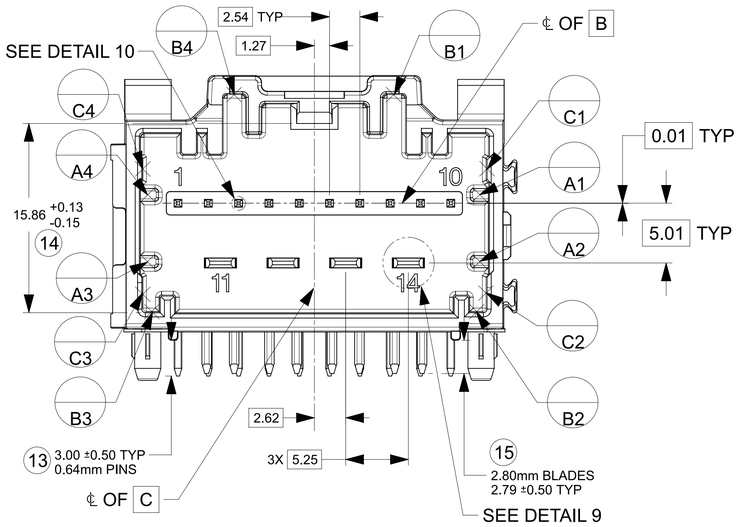
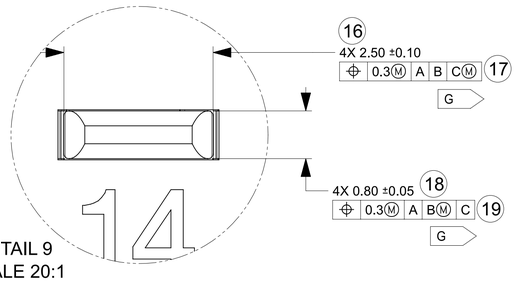
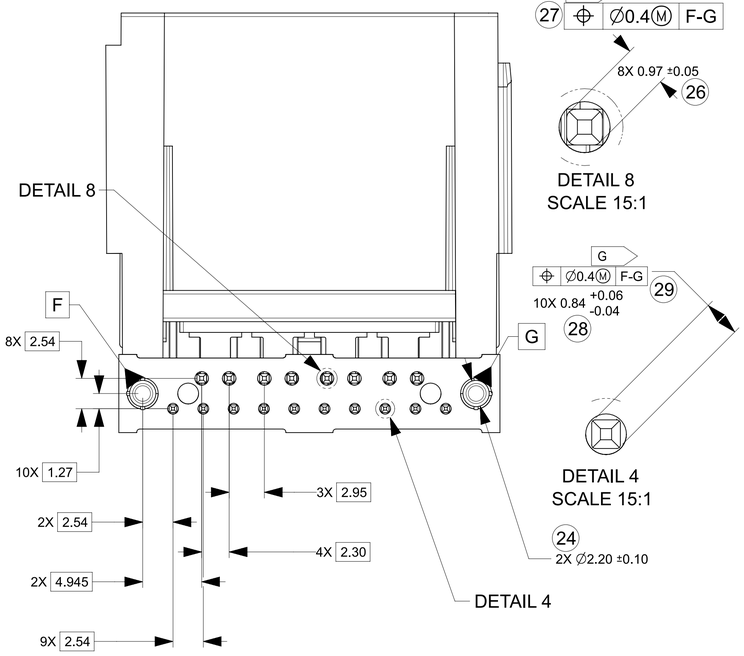
SHEET NO.	SHEET DESCRIPTION
3	SINGLE BAY LAYOUT

14CKT STAC64 HYBRID HEADER DETAILS



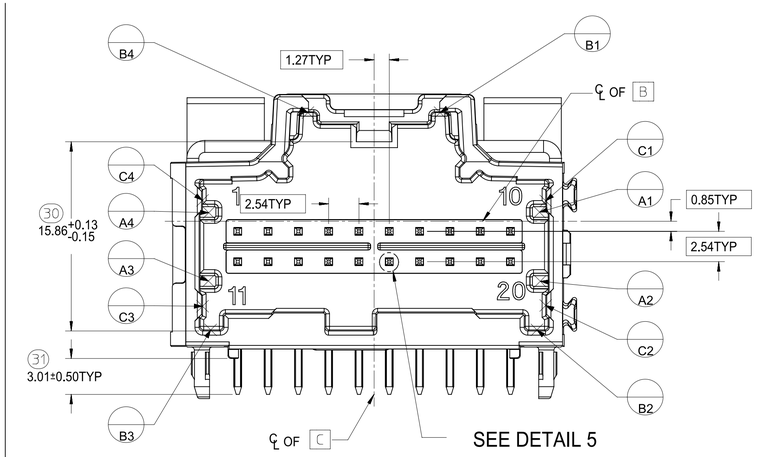


DETAIL 9
SCALE 20:1

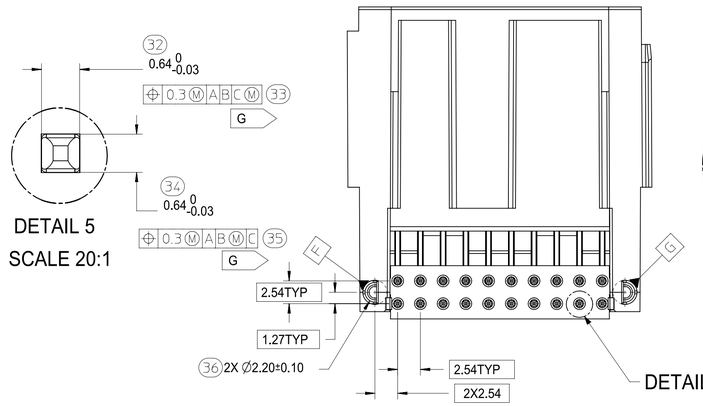


DETAIL 8
SCALE 15:1

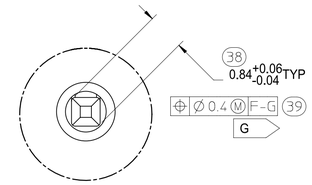
DETAIL 4
SCALE 15:1



8-20CKT STAC64 HEADER DETAILS

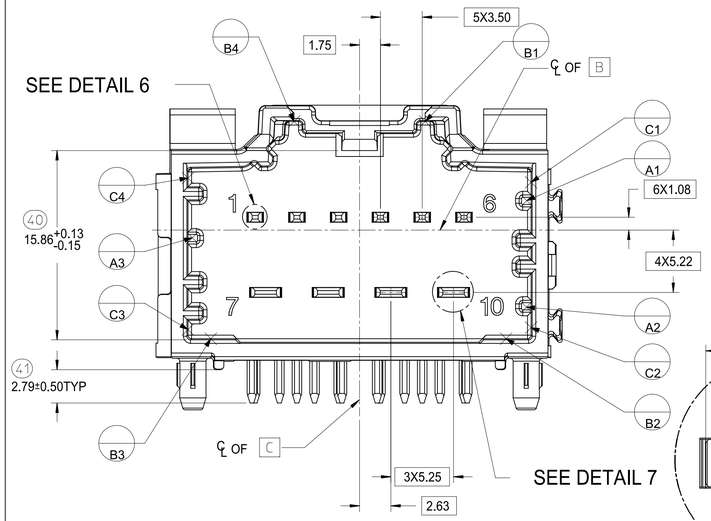


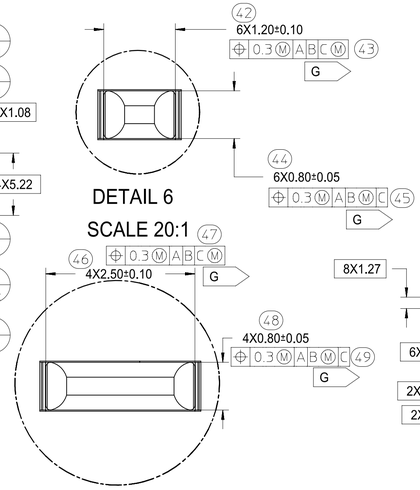
DETAIL 5
SCALE 20:1



DETAIL 1
SCALE 15:1

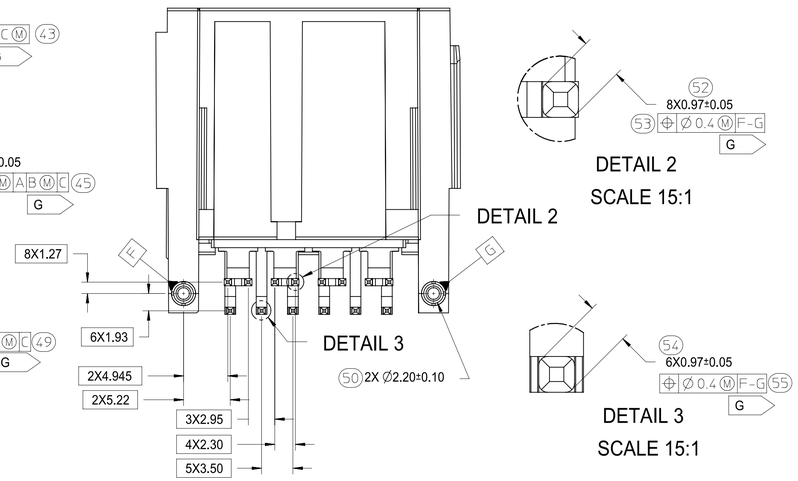
10CKT STAC64 HYBRID HEADER DETAILS





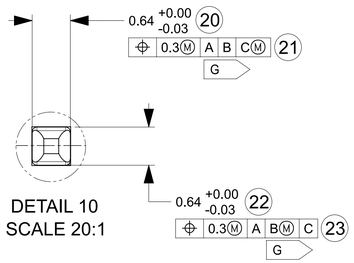
DETAIL 6
SCALE 20:1

DETAIL 7
SCALE 20:1



DETAIL 2
SCALE 15:1

DETAIL 3
SCALE 15:1



DETAIL 10
SCALE 20:1

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	4:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 1°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC: New Small Tray Package part number added into chart (34997-5015)

STATUS: Production
DRWN: MAURICIO RUIZ 2025-04-21
CHK'D: Mario Gazca 2025-05-30
APPR: Enrique Dominguez 2025-06-06

molex

2-BAY STAC64 RIGHT ANGLE
PAP LONG PIN HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

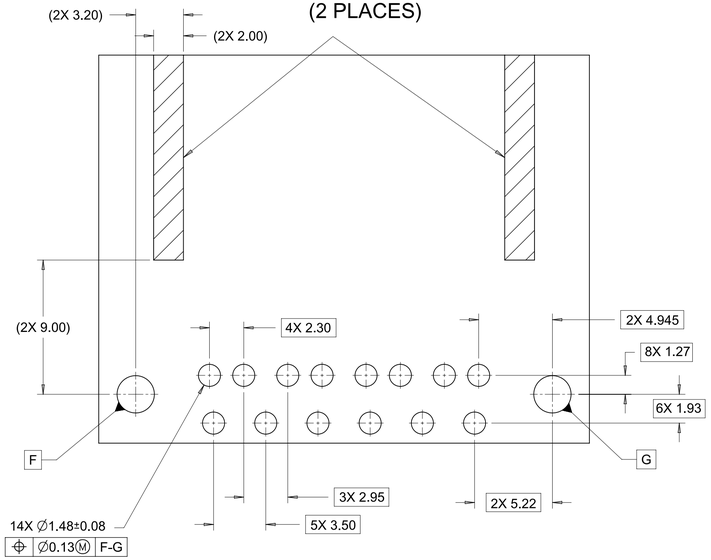
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34997-200	PSD	001	K9

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	34997		GENERAL MARKET	3 OF 4

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
4	RECOMMENDED SINGLE BAY PCB LAYOUT

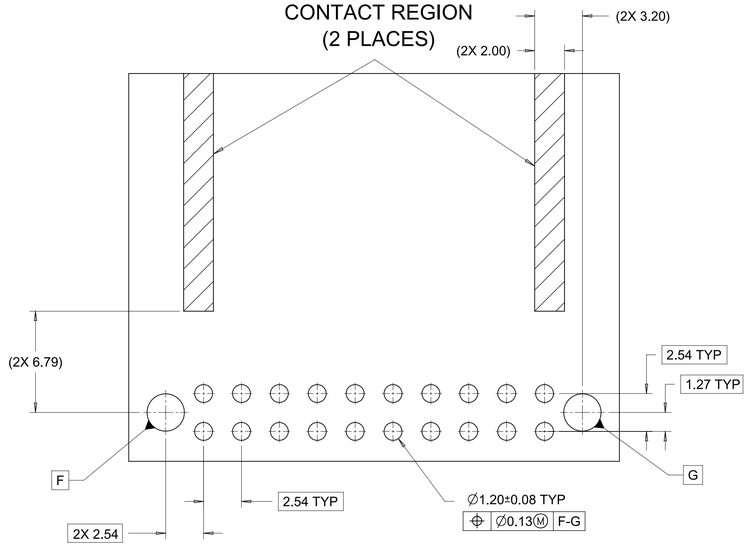
10 CKT HYBRID TEMPLATE PCB LAYOUT

HEADER TO PCB CONTACT REGION (2 PLACES)



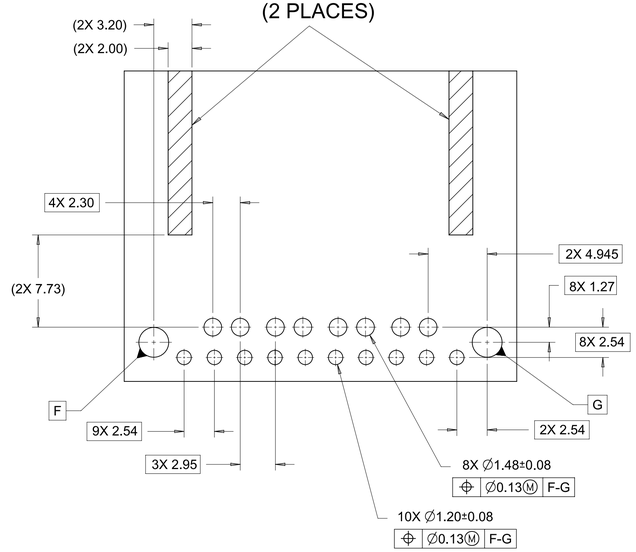
8-20CKT 0.64MM TEMPLATE PCB LAYOUT

HEADER TO PCB CONTACT REGION (2 PLACES)



14 CKT HYBRID TEMPLATE PCB LAYOUT

HEADER TO PCB CONTACT REGION (2 PLACES)



FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
FA = 0	DIMENSION UNITS: mm	SCALE: 5:1	CURRENT REV DESC: New Small Tray Package part number added into chart (34997-5015)
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FP = 0	ANGULAR TOL ± 1°		
DIVISIONAL SYMBOLS	4 PLACES ±		
	3 PLACES ±		
	2 PLACES ± 0.130		
	1 PLACE ± 0.25		
	0 PLACES ±		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

STATUS: Production
DRWN: MAURICIO RUIZ 2025-04-21
CHK'D: Mario Gazca 2025-05-30
APPR: Enrique Dominguez 2025-06-07

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34997

molex

2-BAY STAC64 RIGHT ANGLE
PAP LONG PIN HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34997-200	PSD	001	K9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	4 OF 4