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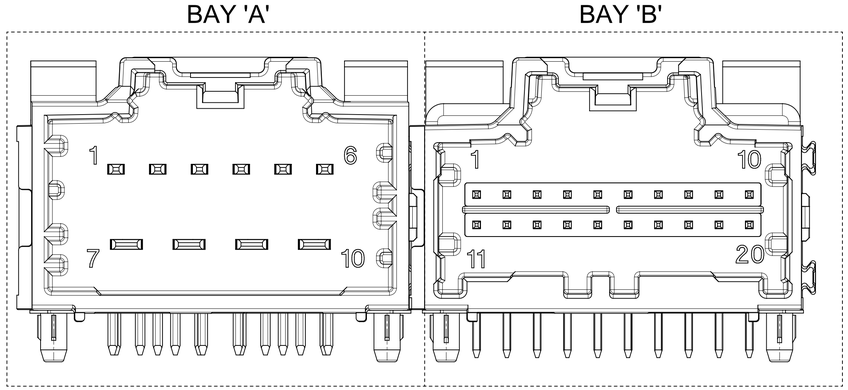
1	NOTES
2	DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION
3	DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION
4	DIMENSION LAYOUTS
5	DIMENSION DETAILS
6	RECOMMENDED SINGLE PCB LAYOUT

2 BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY
(P/N: 34708-2012 SHOWN)



(Y3) NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

a. CONNECTOR HEADER MUST BE VALIDATED TO THE FOLLOWING FUNCTIONAL REQUIREMENTS:
   PRODUCT SPECIFICATION:
   8-20 CKT 0.64 PRODUCT SPEC: PS-34729-020/PS-31408-100
   10/14 CKT HYBRID PRODUCT SPEC: PS-31372-100
b. APPLICATION REQUIREMENTS (REFERENCE ONLY):
   APPLICATION SPECIFICATION: AS-34729-020/AS-31408-100
c. PACKAGING SPECIFICATION PER MOLEX DRAWING PK-31300-892 (TRAY)
d. PACKAGING SPECIFICATION PER MOLEX DRAWING PK-31301-063 (TUBE)
e. PACKAGING SPECIFICATION PER MOLEX DRAWING PK-31300-894 (ALT TRAY)

2. MATERIALS:

a. SHROUD (PLASTIC HOUSING):
   RESIN - SPS
   COLOR:
   POL A - BLACK
   POL B - GRAY
   POL C - BROWN
   POL D - GREEN
b. 0.64mm PINS:
   BASE MATERIAL: COPPER ALLOY
   PLATING TYPE: AS NOTED
   1.5/2.8mm BLADES:
   BASE MATERIAL: COPPER ALLOY
   PLATING TYPE: AS NOTED
(Y9) c. PIN ALIGNMENT PLATE:
   8CKT, 12CKT, 16CKT AND 20CKT: MYLAR
   HYBRID 10CKT: MYLAR
   HYBRID 14CKT: MYLAR

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 0.64: SD-34691-100
   10 CKT HYBRID: SD-34696-100
   14 CKT HYBRID: SD-34773-010

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

REV.	REV. DESCRIPTION	EC#	DATE
Y9	1. UPDATED NOTES 2. ADDED NEW P/N 34708-2059 IN SHEET 3 3. ADDED SOLDERING METHODS	CO-000007814	2023.11
Y8	ADDED NEW P/N: 34708-2058 FOR TRAY PKG IN SHEET 3	CO-000003126	2023.05
Y7	ADDED NEW P/NS: 34708-7001 FOR TUBE PKG IN SHEET 2 AND 34708-2056 & 34708-2057 FOR TRAY PKG IN THE SHEET 3	CO-000003036	2023.04
Y6	ADDED P/NS 34708-2053, 34708-2054 AND 34708-2055 IN SHEET 3	CO-000000440	2022.01
Y5	ADDED P/NS 34708-2051 AND 34708-2052 IN SHEET 3	679095	2021.09
Y4	ADDED P/N 34708-2049 IN SHEET 3	670800	2021.07
Y3	1. UPDATED NOTES 2. ADDED NEW P/NS 34708-2048 AND 34708-7048 IN SHEET 3	662724	2021.05

INSPECTION BALLOON NUMBER LOG
PER DRAWING REVISION: Y9
LAST BALLOON NUMBER USED: 55
ADDED BALLOON NUMBERS:
REMOVED BALLOON NUMBERS:

FUNCTIONAL SYMBOLS	
FA	= 0
FC	= 0
FP	= 0
DIVISIONAL 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	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: SEE REVISION TABLE

STATUS: Production
DRWN: Praveen Kumar S 2023-08-28
CHK'D: Sien Li 2023-12-06
APPR: Elvis Song 2023-12-07

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34708

molex

2-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-200	PSD	001	Y9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 6

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2	DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION:

2 BAY PART NUMBER (ALT TRAY)	2 BAY PART NUMBER (TUBE 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					
TBD	34708-7000	34708-2000	20	0.64mm	A	20	0.64mm	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	34708-7001	34708-2001	20	0.64mm	B	20	0.64mm	C	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2002	20	0.64mm	C	20	0.64mm	D	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	34708-7003	34708-2003	20	0.64mm	C	8	0.64mm	A	51.70	49.23	27.94	12.70	WAVE SOLDERING
TBD	34708-7004	34708-2004	20	0.64mm	C	12	0.64mm	A	56.78	54.31	27.94	17.78	WAVE SOLDERING
TBD	TBD	34708-2005	14	HYBRID	C	20	0.64mm	C	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2006	16	0.64mm	B	20	0.64mm	B	61.86	59.39	22.86	27.94	WAVE SOLDERING
TBD	TBD	34708-2007	16	0.64mm	C	20	0.64mm	C	61.86	59.39	22.86	27.94	WAVE SOLDERING
TBD	TBD	34708-2008	20	0.64mm	A	20	0.64mm	C	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2009	8	0.64mm	A	8	0.64mm	B	36.46	33.99	12.70	12.70	WAVE SOLDERING
TBD	TBD	34708-2010	12	0.64mm	A	10	HYBRID	B	56.78	54.31	17.78	27.94	WAVE SOLDERING
TBD	TBD	34708-2011	20	0.64mm	C	20	0.64mm	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2012	10	HYBRID	A	20	0.64mm	C	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2013	12	0.64mm	A	20	0.64mm	B	56.78	54.31	17.78	27.94	WAVE SOLDERING
TBD	TBD	34708-2014	14	HYBRID	C	20	0.64mm	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2015	20	0.64mm	B	14	HYBRID	C	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2016	12	0.64mm	B	20	0.64mm	D	56.78	54.31	17.78	27.94	WAVE SOLDERING
TBD	TBD	34708-2017	16	0.64mm	A	8	0.64mm	C	46.62	44.15	22.86	12.70	WAVE SOLDERING
TBD	TBD	34708-2018	12	0.64mm	A	16	0.64mm	A	51.70	47.23	22.86	17.78	WAVE SOLDERING
TBD	TBD	34708-2019	20	0.64mm	A	12	0.64mm	A	56.78	54.31	27.94	17.78	WAVE SOLDERING
TBD	34708-7012	34708-2020	10	HYBRID	A	16	0.64mm	A	61.86	59.39	27.94	22.86	WAVE SOLDERING
TBD	TBD	34708-2021	16	0.64mm	B	16	0.64mm	A	56.78	54.31	22.86	22.86	WAVE SOLDERING
TBD	TBD	34708-2022	20	0.64mm	C	10	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2023	20	0.64mm	A	20	0.64mm	C	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2024	8	0.64mm	A	10	HYBRID	A	51.70	47.23	12.70	27.94	WAVE SOLDERING
TBD	TBD	34708-2025	8	0.64mm	B	10	HYBRID	A	51.70	47.23	12.70	27.94	WAVE SOLDERING
TBD	TBD	34708-2026	16	0.64mm	A	20	0.64mm	A	61.86	59.39	22.86	27.94	WAVE SOLDERING
TBD	TBD	34708-2027	8	0.64mm	B	8	0.64mm	B	36.46	33.99	12.70	12.70	WAVE SOLDERING
TBD	TBD	34708-2028	16	0.64mm	A	8	0.64mm	A	46.62	44.15	22.86	12.70	WAVE SOLDERING
TBD	TBD	34708-2029	12	0.64mm	A	12	0.64mm	B	46.62	44.15	17.78	17.78	WAVE SOLDERING
TBD	34708-7030	34708-2030	10	HYBRID	B	10	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2031	12	0.64mm	B	12	0.64mm	A	46.62	44.15	17.78	17.78	WAVE SOLDERING
TBD	TBD	34708-2032	20	0.64mm	D	16	0.64mm	B	61.68	59.39	27.94	22.86	WAVE SOLDERING
TBD	TBD	34708-2033	20	0.64mm	D	16	0.64mm	C	61.86	59.39	27.94	22.86	WAVE SOLDERING
TBD	TBD	34708-2034	16	0.64mm	B	20	0.64mm	D	61.68	59.39	22.86	27.94	WAVE SOLDERING
TBD	TBD	34708-2035	16	0.64mm	C	20	0.64mm	D	61.86	59.39	22.86	27.94	WAVE SOLDERING
TBD	TBD	34708-2036	8	0.64mm	C	16	0.64mm	C	46.62	44.15	12.70	22.86	WAVE SOLDERING
34708-7537	TBD	34708-2037	16	0.64mm	A	10	HYBRID	B	61.86	59.39	22.86	27.94	WAVE SOLDERING
34708-7538	TBD	34708-2038	10	HYBRID	A	16	0.64mm	C	61.86	59.39	27.94	22.86	WAVE SOLDERING
TBD	TBD	34708-2039	14	HYBRID	A	20	0.64mm	D	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2040	20	0.64mm	A	8	0.64mm	A	51.70	49.23	27.94	12.70	WAVE SOLDERING
TBD	TBD	34708-2041	12	0.64mm	B	16	0.64mm	A	51.70	49.23	17.78	22.86	WAVE SOLDERING
TBD	TBD	34708-2042	16	0.64mm	A	16	0.64mm	A	56.78	54.31	22.86	22.86	WAVE SOLDERING
TBD	TBD	34708-2043	20	0.64mm	B	20	0.64mm	A	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2044	10	HYBRID	A	10	HYBRID	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2045	20	0.64mm	A	14	HYBRID	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
TBD	TBD	34708-2046	20	0.64mm	C	14	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING

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

FUNCTIONAL SYMBOLS: A = 0, C = 0, E = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: MM | SCALE: 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: SEE REVISION TABLE

STATUS: Production

DRWN: Praveen Kumar S 2023-08-28

CHK'D: Sien Li 2023-12-06

APPR: Elvis Song 2023-12-07

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34708

molex

2-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER: SD-34708-200 | DOC TYPE: PSD | DOC PART: 001 | REVISION: Y9

MATERIAL NUMBER: | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 2 OF 6

TABLE OF CONTENTS	
3	DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION:

(Y9)

2 BAY PART NUMBER (ALT TRAY)	2 BAY PART NUMBER (TUBE 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					
TBD	TBD	34708-2050	20	0.64mm	A	16	0.64mm	A	61.86	59.39	27.94	22.86	WAVE SOLDERING
TBD	TBD	34708-2060	10	HYBRID	B	16	0.64mm	A	61.86	59.39	27.94	22.86	WAVE SOLDERING
TBD	TBD	34708-2070	16	0.64mm	A	12	0.64mm	A	51.70	49.23	22.86	17.78	WAVE SOLDERING
TBD	TBD	34708-2080	16	0.64mm	A	16	0.64mm	B	56.78	54.31	22.86	22.86	WAVE SOLDERING
TBD	TBD	34708-2090	16	0.64mm	B	16	0.64mm	C	56.78	54.31	22.86	22.86	WAVE SOLDERING
TBD	TBD	34708-2047	8	0.64mm	A	20	0.64mm	A	51.70	49.23	12.70	27.94	WAVE SOLDERING
(Y3) TBD	34708-7048	34708-2048	10	HYBRID	A	20	0.64mm	D	66.94	64.47	27.94	27.94	WAVE SOLDERING
(Y4) TBD	TBD	34708-2049	14	HYBRID	A	14	HYBRID	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
(Y5) TBD	TBD	34708-2051	14	HYBRID	A	12	0.64mm	A	56.78	54.31	27.94	17.78	WAVE SOLDERING
(Y5) TBD	TBD	34708-2052	14	HYBRID	C	12	0.64mm	B	56.78	54.31	27.94	17.78	WAVE SOLDERING
(Y6) TBD	TBD	34708-2053	14	HYBRID	B	14	HYBRID	C	66.94	67.47	27.94	27.94	WAVE SOLDERING
(Y6) TBD	TBD	34708-2054	14	HYBRID	B	14	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING
(Y6) TBD	TBD	34708-2055	14	HYBRID	C	14	HYBRID	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
(Y7) TBD	TBD	34708-2056	14	HYBRID	C	10	HYBRID	A	66.94	64.47	27.94	27.94	WAVE SOLDERING
(Y7) TBD	TBD	34708-2057	20	0.64mm	D	16	0.64mm	A	61.86	59.39	27.94	22.86	WAVE SOLDERING
(Y8) TBD	TBD	34708-2058	10	HYBRID	B	20	0.64mm	B	66.94	64.47	27.94	27.94	WAVE SOLDERING
(Y9) TBD	TBD	34708-2059	20	0.64mm	A	14	HYBRID	C	66.94	64.47	27.94	27.94	WAVE SOLDERING

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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: SEE REVISION TABLE

STATUS: Production
DRWN: Praveen Kumar S 2023-08-28
CHK'D: Sien Li 2023-12-06
APPR: Elvis Song 2023-12-07

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34708

molex

2-BAY STAC64 RIGHT ANGLE
HEADER ASSEMBLY SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-200	PSD	001	Y9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	3 OF 6

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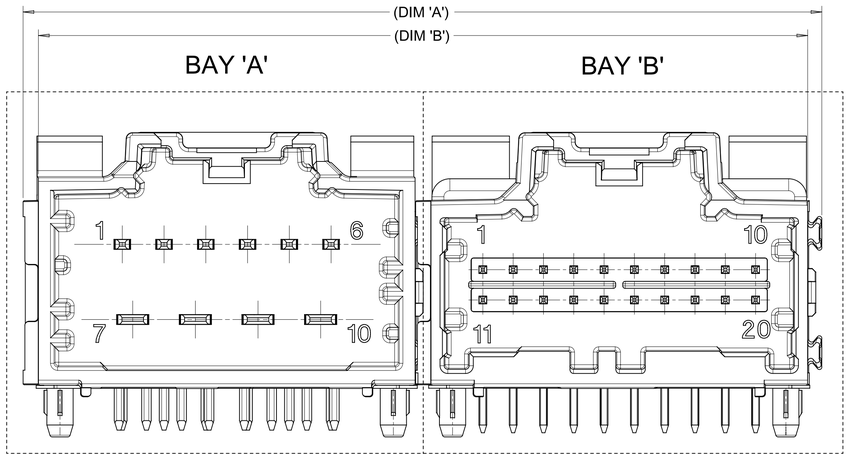
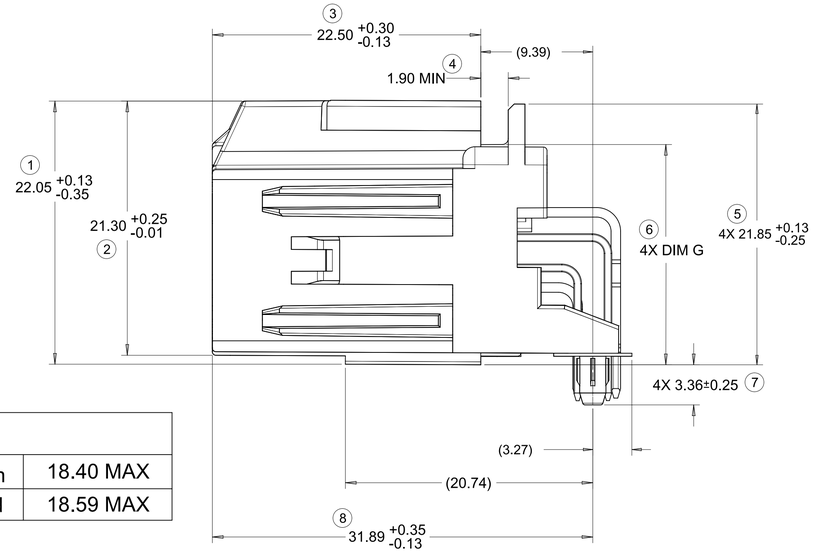
4	DIMENSION LAYOUTS

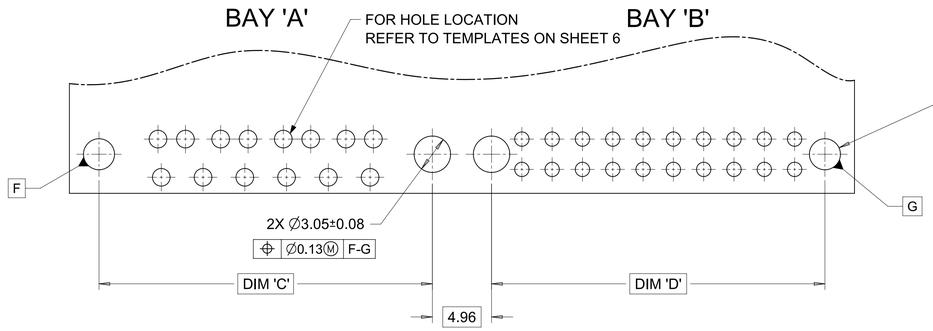




FOR DIM G:	
8-20CKT 0.64mm	18.40 MAX
10/14CKT Hybrid	18.59 MAX

RECOMMENDED PCB LAYOUT

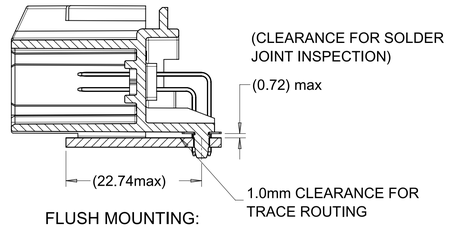
INSERT NECESSARY BAYS USING CHART ON SHEET 2 AND 3



POST HOLE TABLE:

FOR DIM Z:	
PRESS FIT:	2.60
DROP IN:	3.05

ALL CIRCUIT OPTIONS



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

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

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FE = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS: MM
SCALE: 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: SEE REVISION TABLE

STATUS: Production
DRWN: Praveen Kumar S 2023-08-28
CHK'D: Sien Li 2023-12-06
APPR: Elvis Song 2023-12-07

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34708

molex

2-BAY STAC64 RIGHT ANGLE
HEADER ASSEMBLY SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-200	PSD	001	Y9

MATERIAL NUMBER | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 4 OF 6

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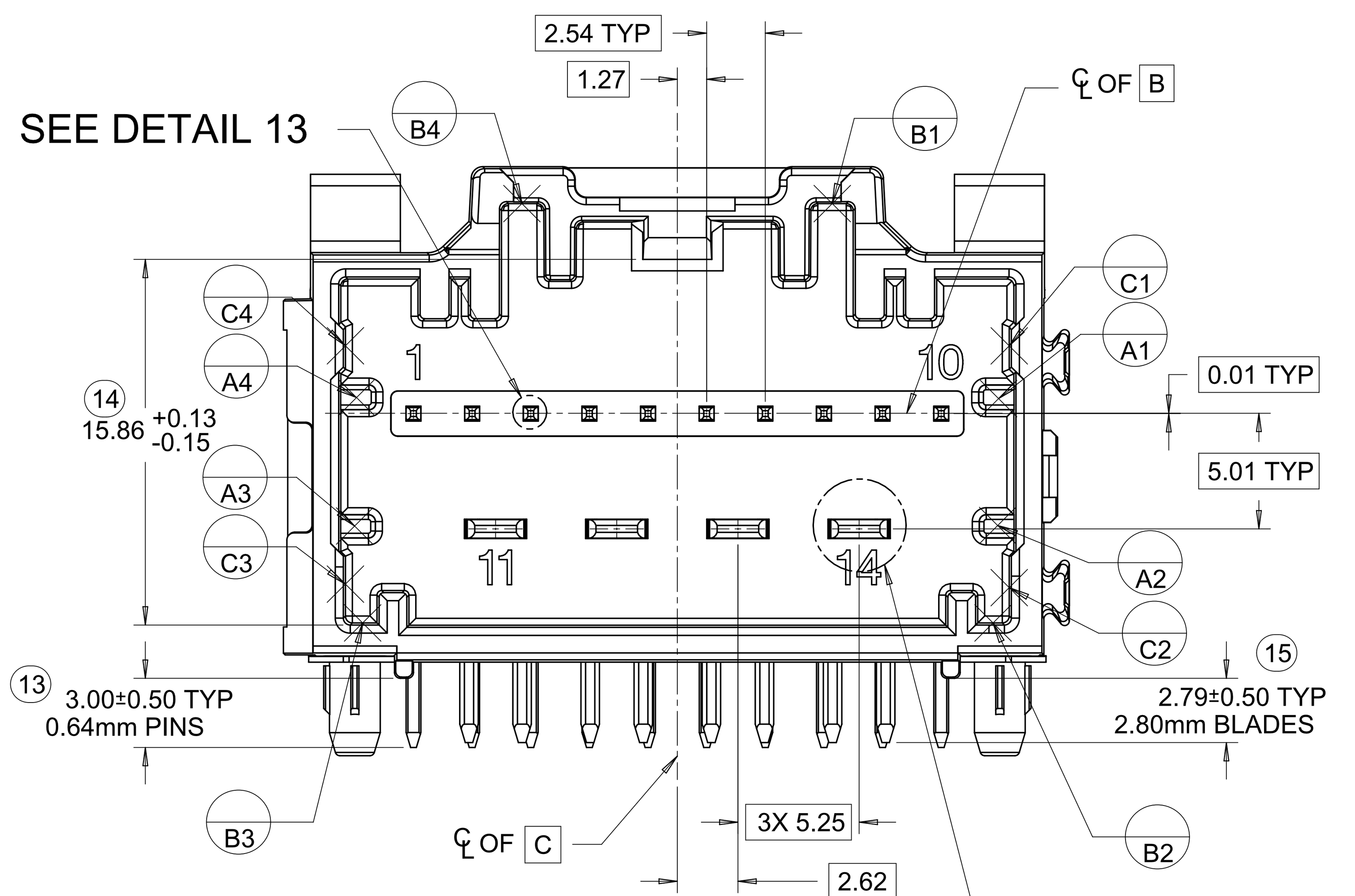
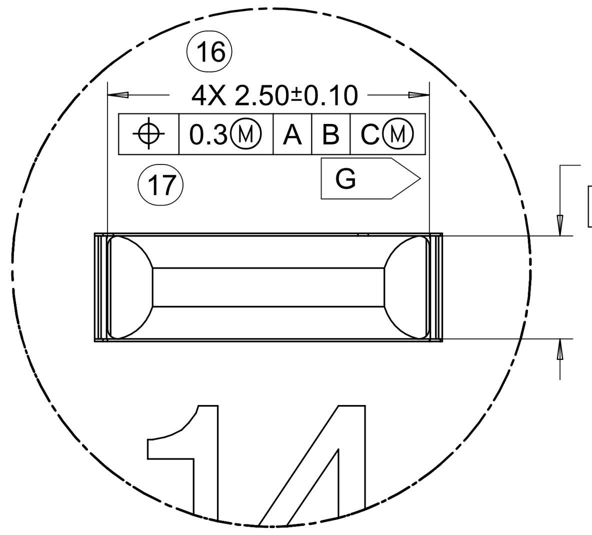
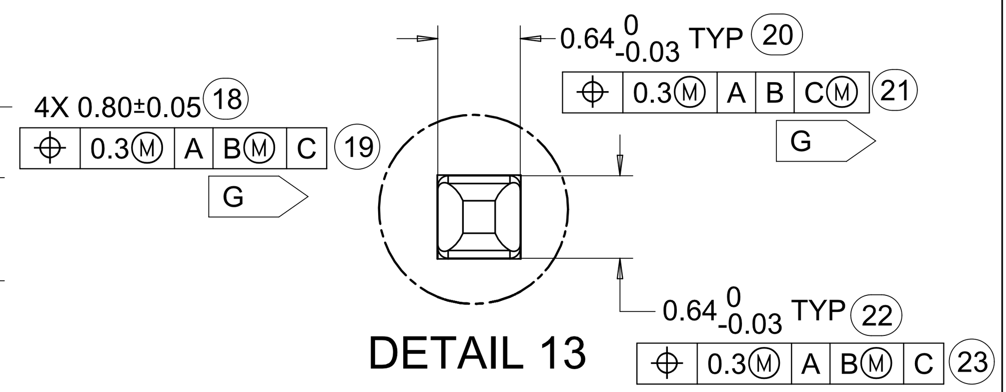
5	DIMENSION DETAILS

14 CKT HYBRID HEADER DETAILS

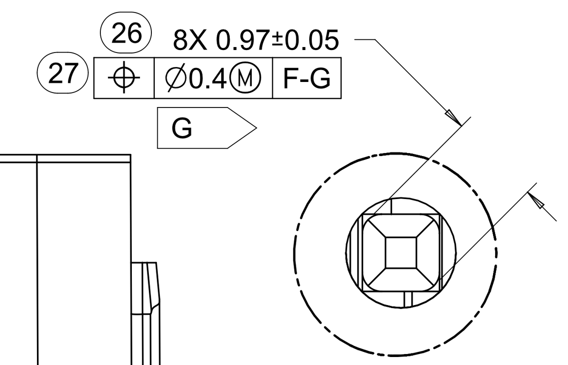




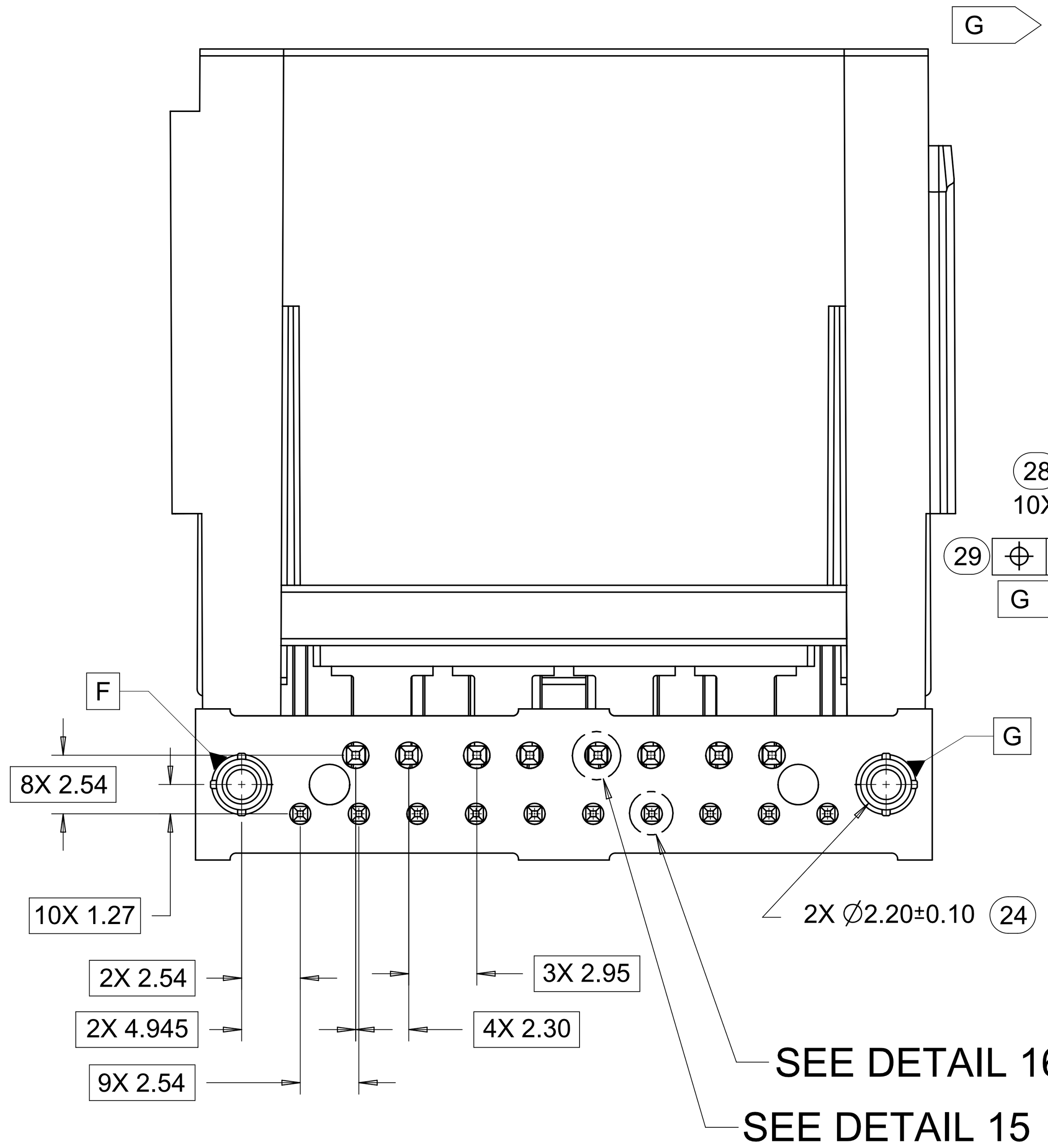
DETAIL 14
SCALE 20:1

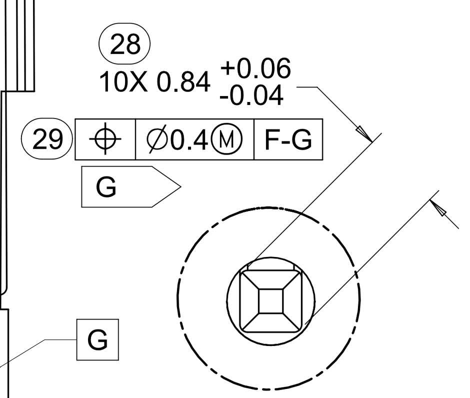


DETAIL 13
SCALE 20:1



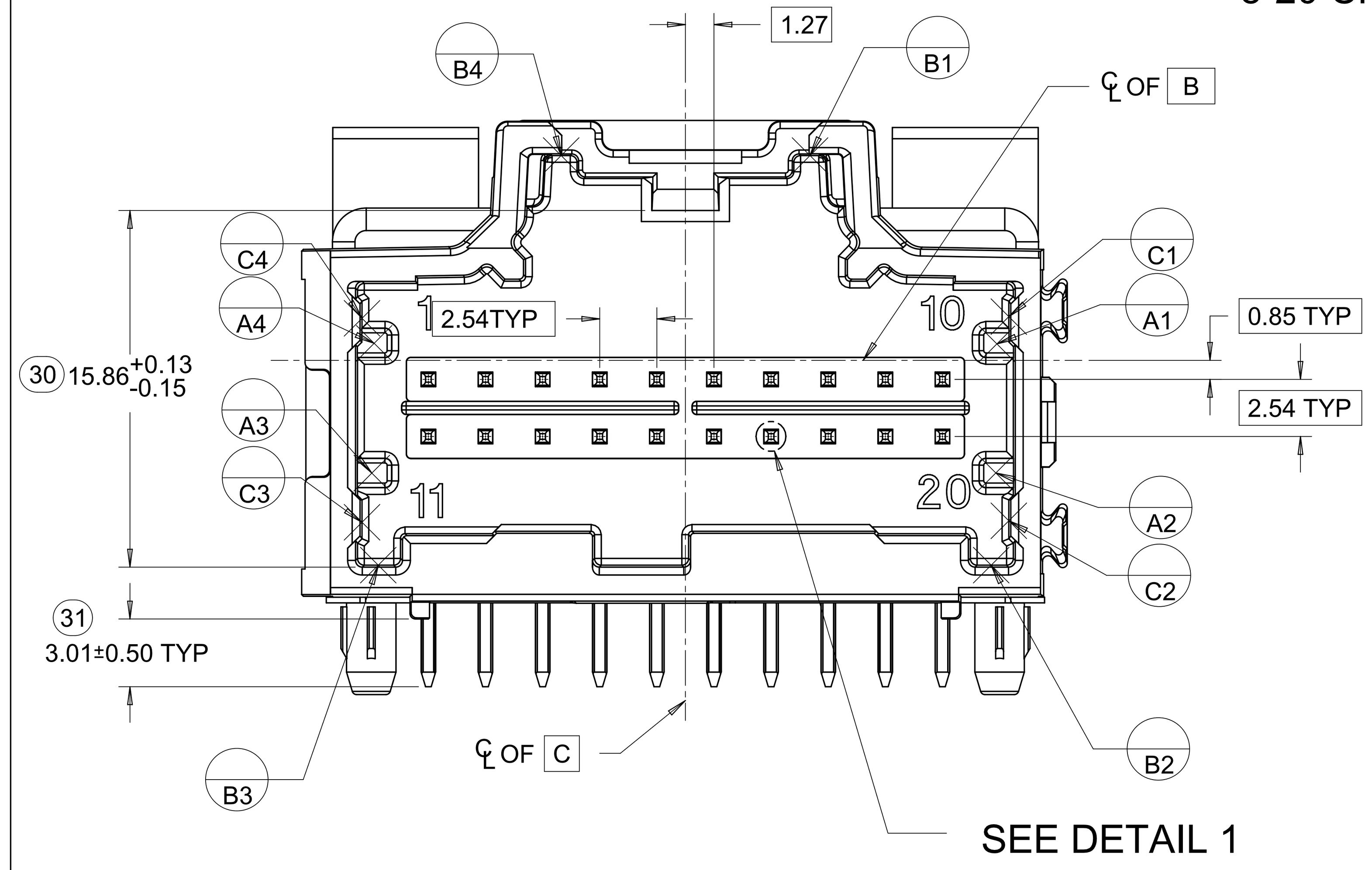
DETAIL 15
SCALE 15:1

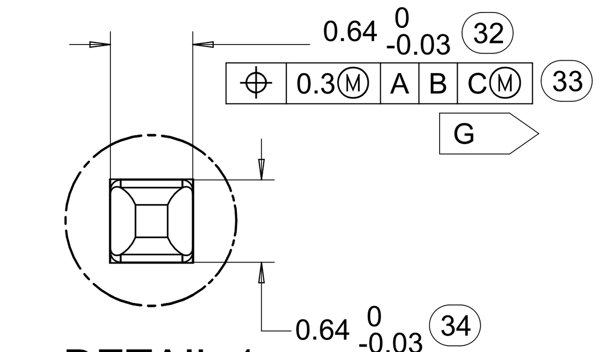




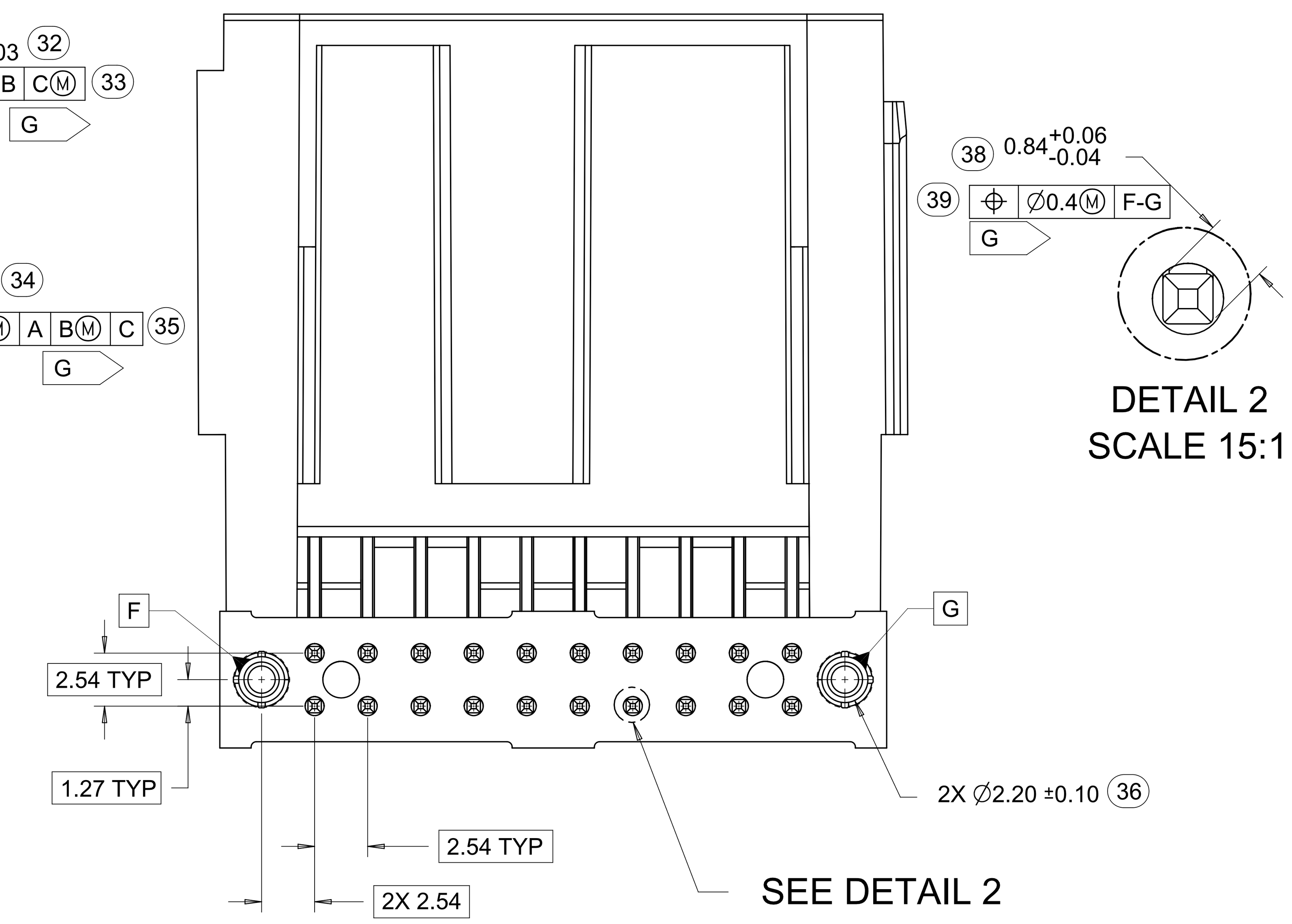
DETAIL 16
SCALE 15:1

8-20 CKT 0.64mm HEADER DETAILS



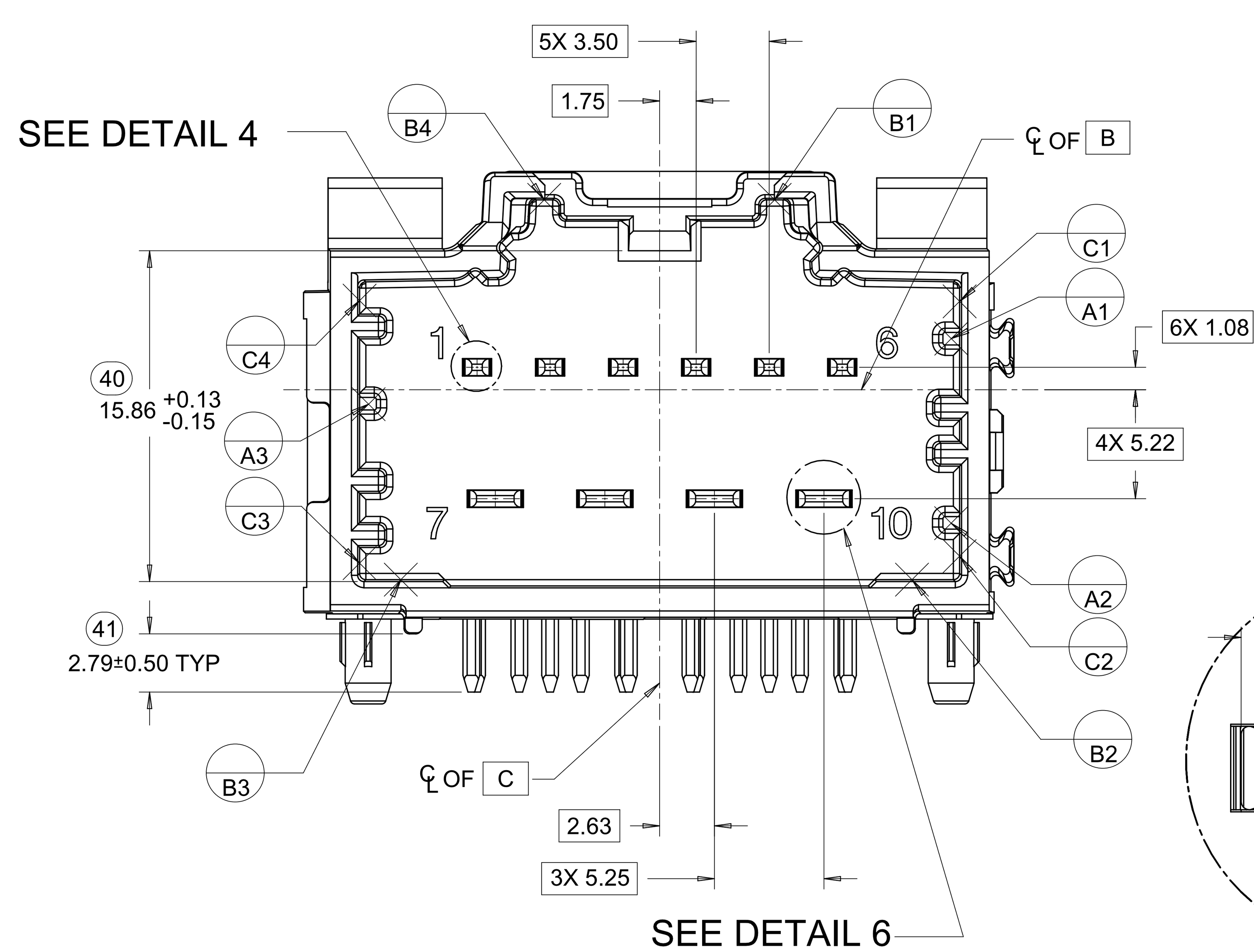


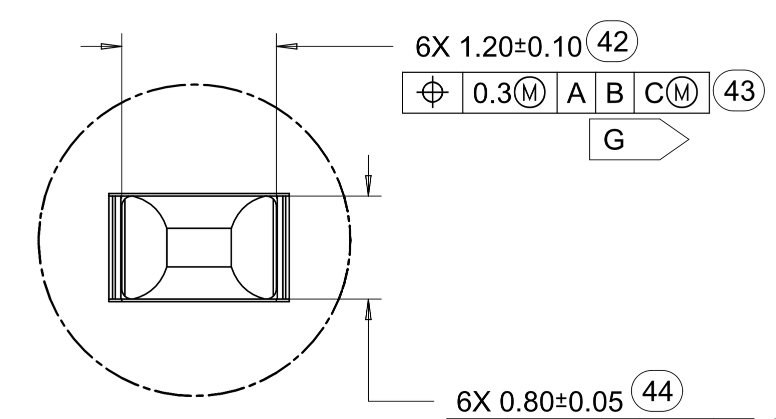
DETAIL 1
SCALE 20:1



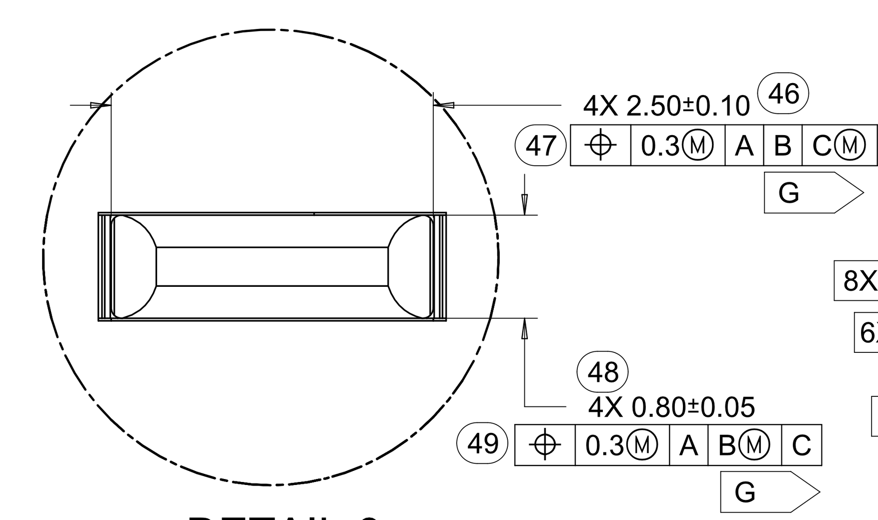
DETAIL 2
SCALE 15:1

10CKT STAC HYBRID HEADER DETAILS

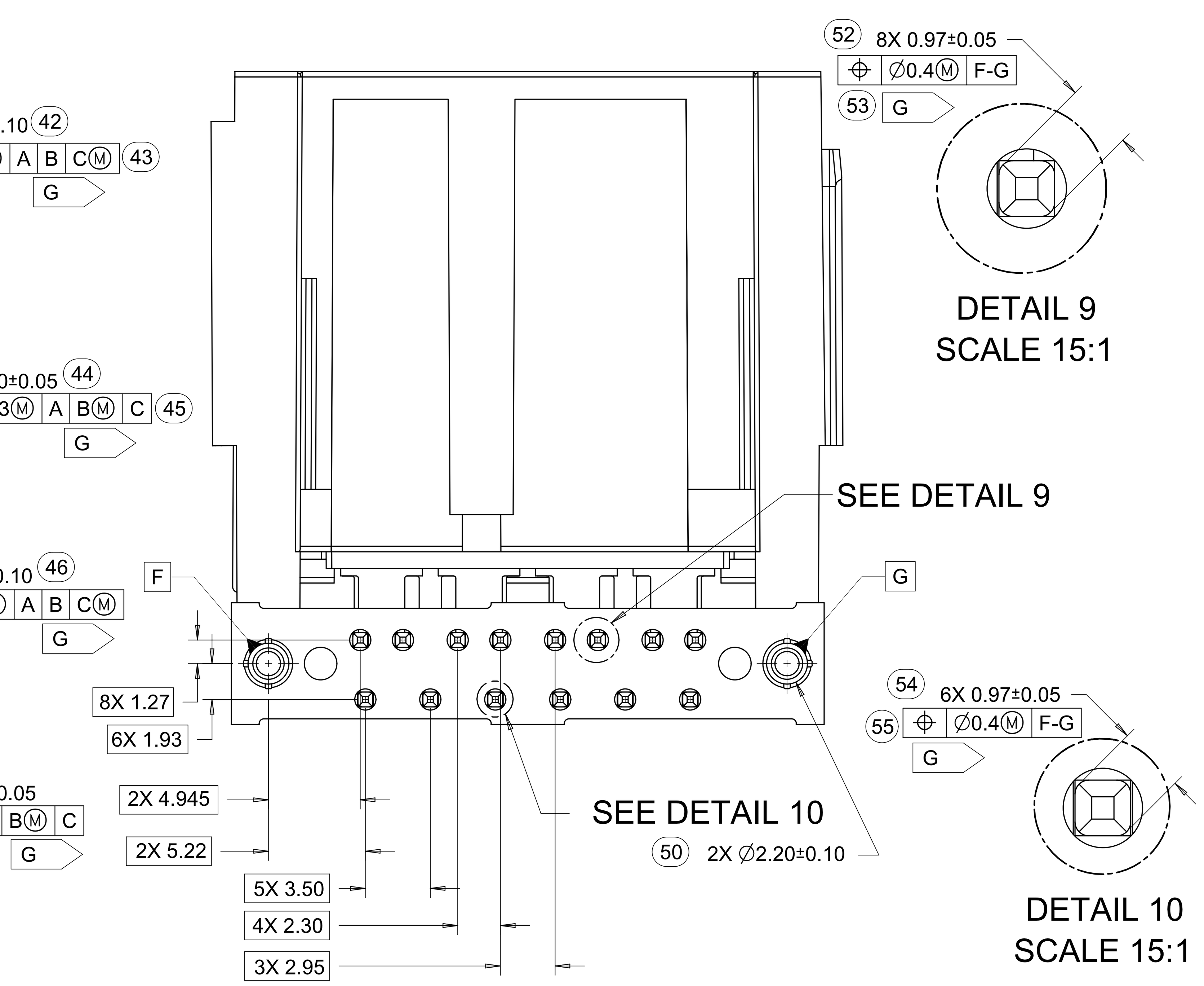




DETAIL 4
SCALE 20:1



DETAIL 6
SCALE 20:1



DETAIL 9
SCALE 15:1

DETAIL 10
SCALE 15:1

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

FUNCTIONAL SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE	molex
= 0	MM	4:1		2-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			
= 0	ANGULAR TOL	± 1°		PRODUCT SALES DRAWING
DIVISIONAL SYMBOLS	4 PLACES	±	STATUS: Production	
	3 PLACES	±	DRWN: Praveen Kumar S 2023-08-28	DOCUMENT NUMBER: SD-34708-200; DOC TYPE: PSD; DOC PART: 001; REVISION: Y9
	2 PLACES	± 0.130	CHK'D: Sien Li 2023-12-06	
	1 PLACE	± 0.25	APPR: Elvis Song 2023-12-07	
	0 PLACES	±	THIRD ANGLE PROJECTION; DRAWING: D-SIZE; SERIES: 34708	MATERIAL NUMBER; CUSTOMER: GENERAL MARKET; SHEET NUMBER: 5 OF 6
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			

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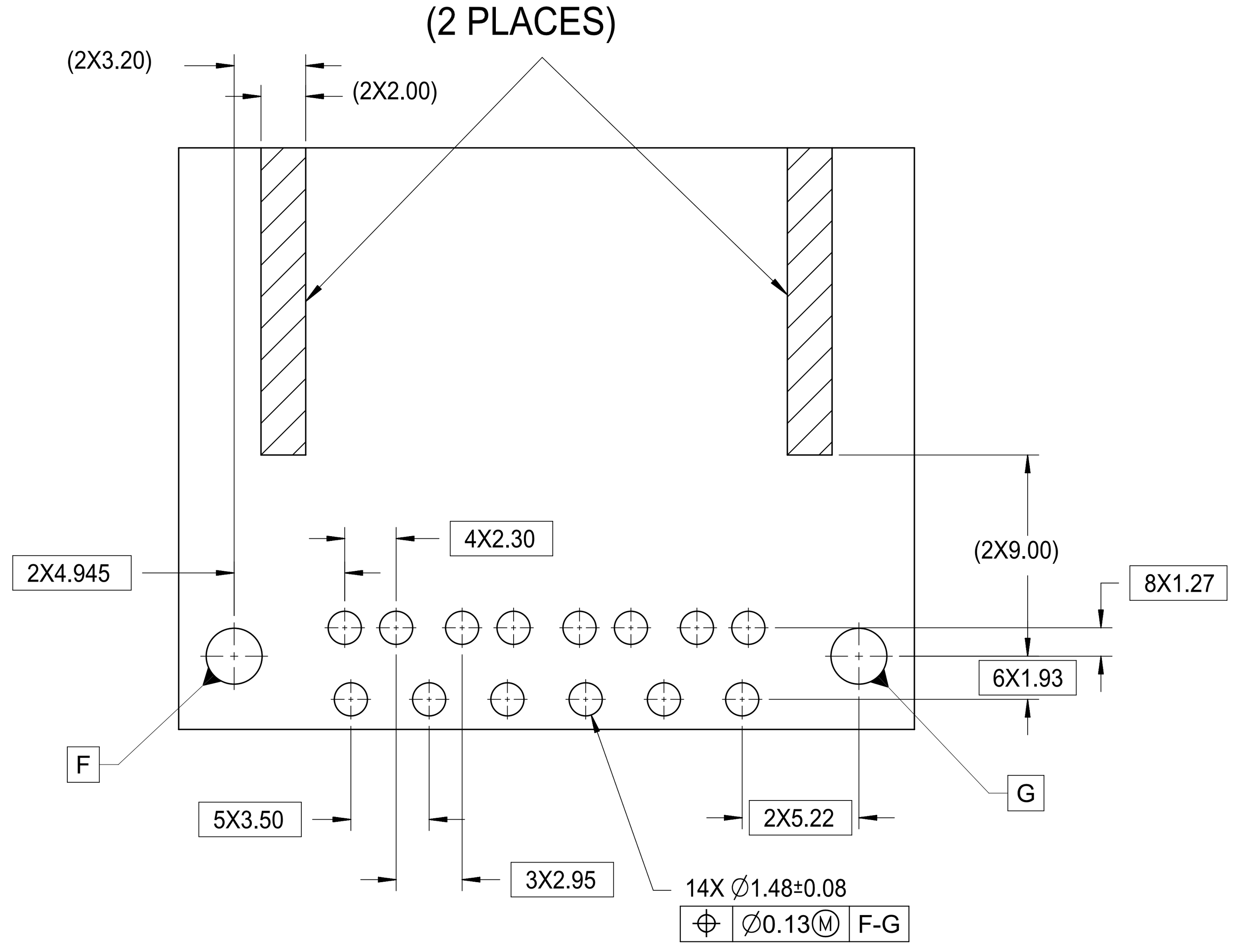
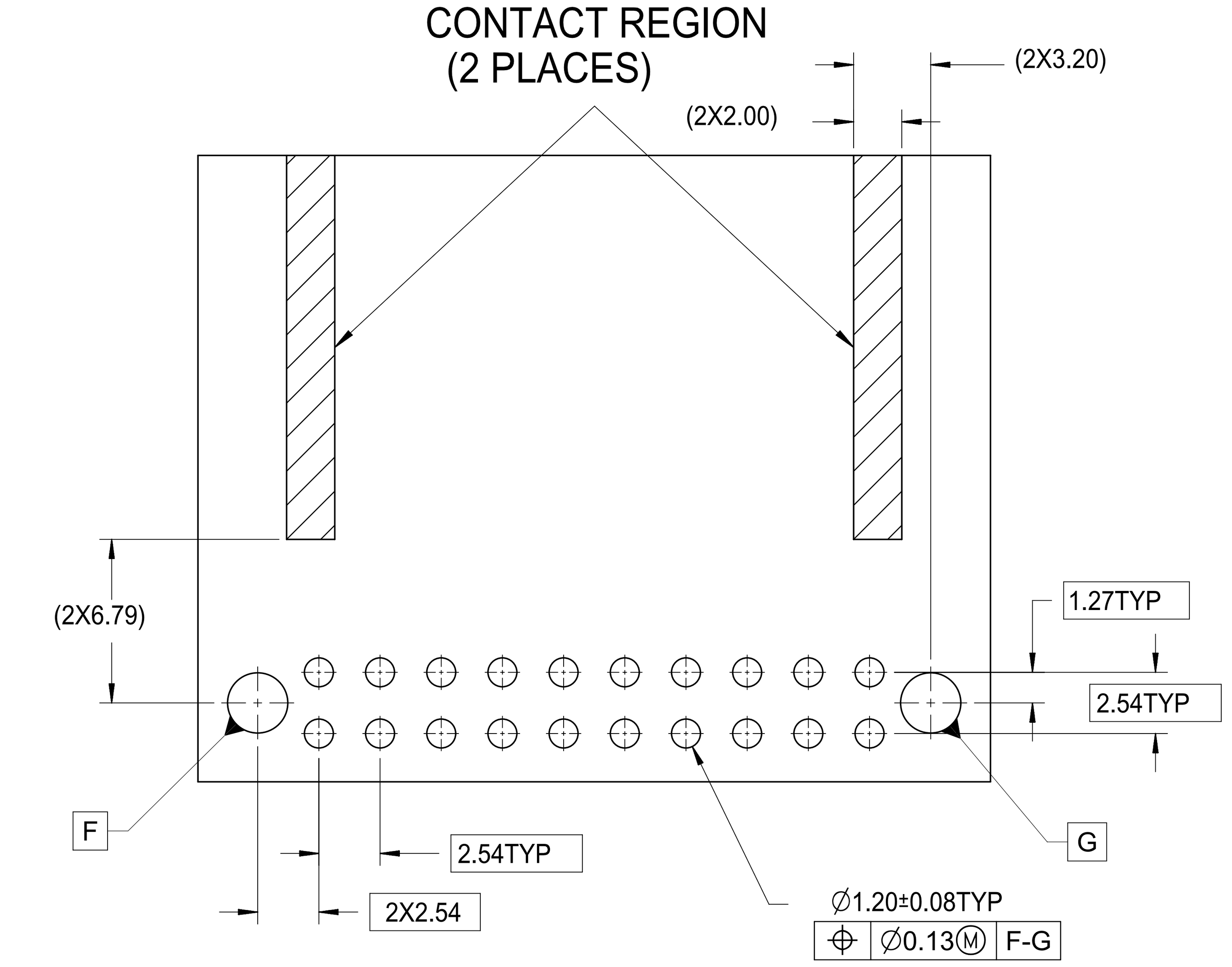
6	RECOMMENDED SINGLE PCB LAYOUT

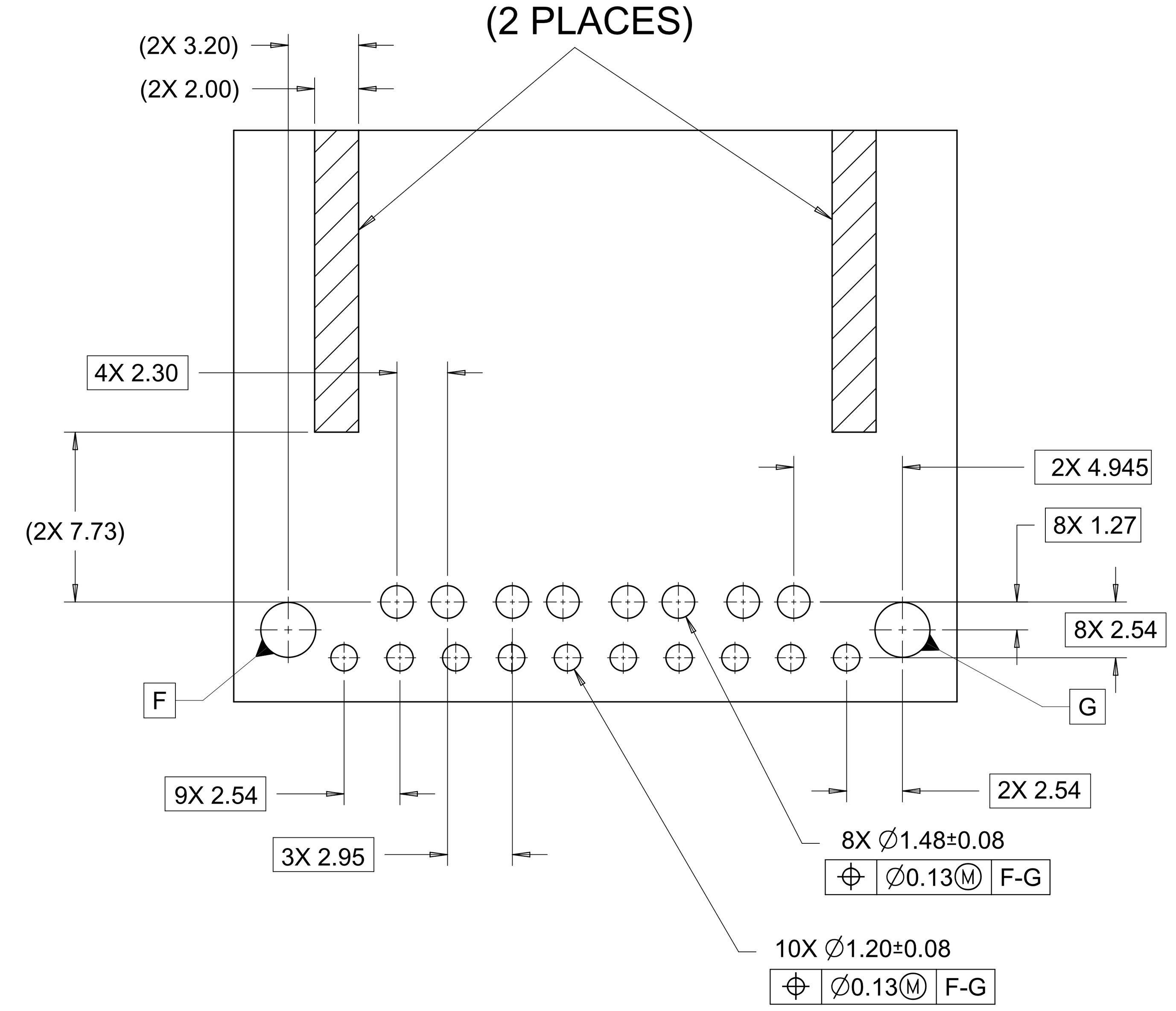
10 CKT HYBRID TEMPLATE PCB LAYOUT



8-20CKT 0.64mm TEMPLATE PCB LAYOUT



14 CKT HYBRID TEMPLATE PCB LAYOUT



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

FUNCTIONAL SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE
= 0	MM	4:1	
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
= 0	ANGULAR TOL ± 1°		
DIVISIONAL SYMBOLS	4 PLACES ±		
	3 PLACES ±		STATUS: Production
	2 PLACES ± 0.130		DRWN: Praveen Kumar S 2023-08-28
	1 PLACE ± 0.25		CHK'D: Sien Li 2023-12-06
	0 PLACES ±		APPR: Elvis Song 2023-12-07
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: D-SIZE; SERIES: 34708

molex

2-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-200	PSD	001	Y9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	6 OF 6