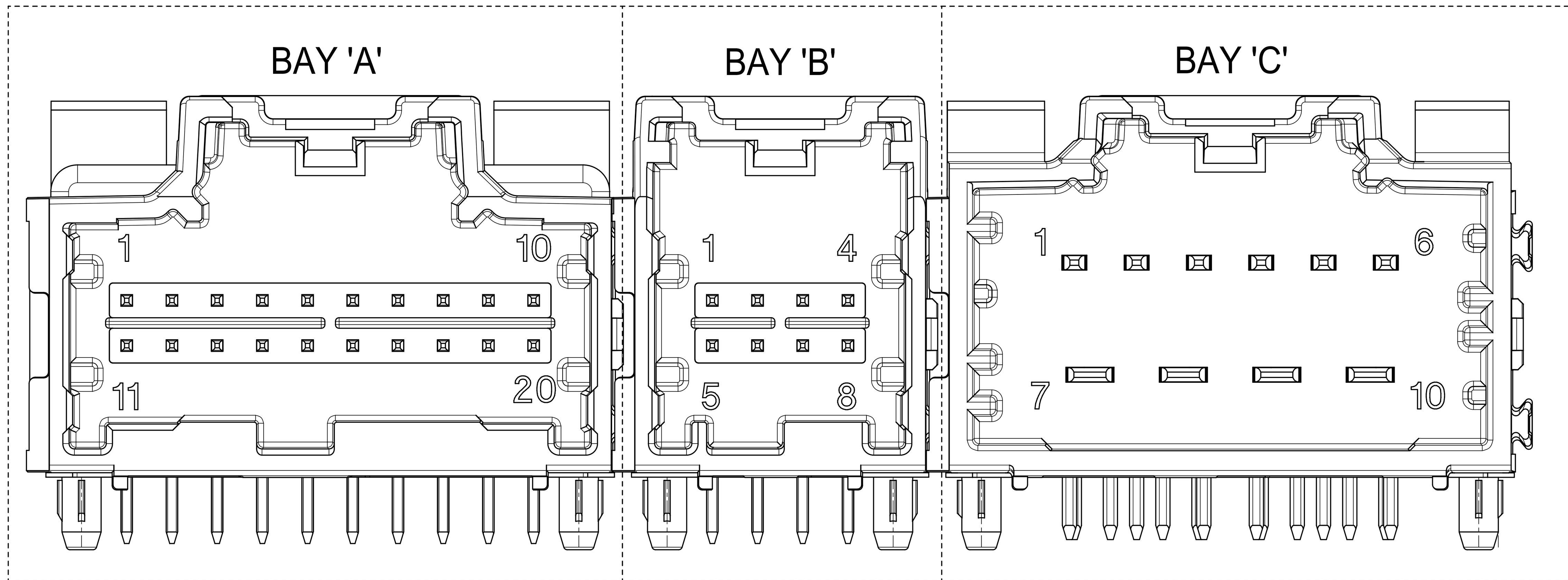
3-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY
(P/N: 34708-3040 SHOWN)



NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

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

PRODUCT SPECIFICATION:
8-20 CKT 0.64 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)

2. DESIGN: MATERIALS:

a. SHROUD (PLASTIC HOUSING):
RESIN - SPS 30%GF
COLOR:
POL A - BLACK
POL B - GRAY
POL C - BROWN
POL D - GREEN

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

1.50/2.80mm BLADES:
BASE MATERIAL: C19400
PLATING TYPE: AS NOTED

3. PLATING REQUIREMENTS:

a. UNDERPLATING - OVERALL NICKEL

b. OVERPLATING - OVERALL TIN

4. FOR DESCRIPTION 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

SYMBOLS: = 0 (×9)

DIMENSION UNITS	mm
SCALE	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO:	612618	
DRWN:	SHANDITHAVAL	2019/02/22
CHK'D:	RBAUMAN	2019/02/23
APPR:	RBAUMAN	2019/02/23

INITIAL REVISION:

DRWN:	JDUNAJ	2009/03/10
APPR:	SMARCEAU	2009/03/11

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

molex

3-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-300	PSD	001	U8

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23	23:33:02

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION:

3 BAY PART NUMBER (TUBE PKG)	3 BAY PART NUMBER (TRAY PKG)	BAY A			BAY B			BAY C			DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'
		CKT	TYPE	POL	CKT	TYPE	POL	CKT	TYPE	POL					
	34708-3000	16	0.64mm	B	16	0.64mm	A	12	0.64mm	B	79.52	77.05	22.86	22.86	17.78
	34708-3001	20	0.64mm	A	20	0.64mm	B	12	0.64mm	A	89.86	87.21	27.94	27.94	17.78
	34708-3002	20	0.64mm	A	20	0.64mm	B	14	HYBRID	C	99.84	97.37	27.94	27.94	27.94
	34708-3003	10	HYBRID	A	16	0.64mm	A	8	0.64mm	C	79.52	77.05	27.94	22.86	12.70
	34708-3004	16	0.64mm	A	16	0.64mm	B	16	0.64mm	C	84.60	82.13	22.86	22.86	22.86
	34708-3006	20	0.64mm	D	20	0.64mm	B	20	0.64mm	C	99.84	97.37	27.94	27.94	27.94
TBD	34708-3007	20	0.64mm	A	12	0.64mm	A	20	0.64mm	D	89.68	87.21	27.94	17.78	27.94
TBD	347083008	20	0.64mm	A	10	HYBRID	B	10	HYBRID	A	99.84	97.37	27.94	27.94	27.94
34708-8010	34708-3010	20	0.64mm	A	20	0.64mm	B	16	0.64mm	A	94.76	92.29	27.94	27.94	22.86
TBD	34708-3020	10	HYBRID	A	20	0.64mm	B	20	0.64mm	C	99.84	97.37	27.94	27.94	27.94
TBD	34708-3021	10	HYBRID	A	20	0.64mm	C	20	0.64mm	D	99.84	97.37	27.94	27.94	27.94
TBD	34708-3022	20	0.64mm	B	16	0.64mm	C	10	HYBRID	A	94.76	92.29	27.94	22.86	27.94
TBD	34708-3030	16	0.64mm	A	12	0.64mm	A	10	HYBRID	A	84.60	82.13	22.86	17.78	27.94
TBD	34708-3040	20	0.64mm	A	8	0.64mm	A	10	HYBRID	A	84.60	82.13	27.94	12.70	27.94
TBD	34708-3050	10	HYBRID	A	16	0.64mm	B	16	0.64mm	C	89.68	87.21	27.94	22.86	22.86
TBD	34708-3060	16	0.64mm	A	20	0.64mm	C	20	0.64mm	D	94.76	92.29	22.86	27.94	27.94
34708-8070	34708-3070	20	0.64mm	A	20	0.64mm	B	10	HYBRID	A	99.84	97.37	27.94	27.94	27.94
TBD	34708-3071	20	0.64mm	A	10	HYBRID	A	10	HYBRID	B	99.84	97.37	27.94	27.94	27.94
TBD	34708-3080	12	0.64mm	A	12	0.64mm	B	16	0.64mm	A	74.44	71.97	17.78	17.78	22.86
TBD	34708-3081	20	0.64mm	D	12	0.64mm	B	20	0.64mm	C	89.68	87.21	27.94	17.78	27.94
TBD	34708-3082	12	0.64mm	C	8	0.64mm	A	8	0.64mm	B	59.20	56.73	17.78	12.70	12.70
TBD	34708-3083	8	0.64mm	C	16	0.64mm	B	16	0.64mm	C	74.44	71.97	12.70	22.86	22.86
TBD	34708-3084	16	0.64mm	A	8	0.64mm	A	8	0.64mm	B	64.28	61.81	22.86	12.70	12.70
TBD	34708-3085	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	99.84	97.37	27.94	27.94	27.94
TBD	34708-3086	20	0.64mm	A	20	0.64mm	B	8	0.64mm	A	84.60	82.13	27.94	27.94	12.70
TBD	34708-3087	20	0.64mm	A	16	0.64mm	A	8	0.64mm	A	79.52	77.05	27.94	22.86	12.70
TBD	34708-3088	12	0.64mm	A	16	0.64mm	A	12	0.64mm	B	74.44	71.97	17.78	22.86	17.78
TBD	34708-3089	16	0.64mm	A	16	0.64mm	B	20	0.64mm	A	89.68	87.21	22.86	22.86	27.94
TBD	34708-3090	16	0.64mm	C	16	0.64mm	A	8	0.64mm	B	74.44	71.97	22.86	22.86	12.70
TBD	34708-3091	20	0.64mm	C	12	0.64mm	C	16	0.64mm	B	84.60	82.13	27.94	17.78	22.86
TBD	34708-3092	12	0.64mm	B	8	0.64mm	C	20	0.64mm	D	74.44	71.97	17.78	12.70	27.94
TBD	34708-3093	16	0.64mm	B	16	0.64mm	A	8	0.64mm	A	74.44	71.97	22.86	22.86	12.70
TBD	34708-3094	20	0.64mm	D	20	0.64mm	B	8	0.64mm	A	84.60	82.13	27.94	27.94	12.70
TBD	34708-3095	20	0.64mm	A	16	0.64mm	C	12	0.64mm	B	84.60	82.13	27.94	22.86	17.78
TBD	34708-3096	16	0.64mm	A	16	0.64mm	B	20	0.64mm	C	89.68	87.21	22.86	22.86	27.94
TBD	34708-3097	16	0.64mm	C	12	0.64mm	B	20	0.64mm	A	84.60	82.13	22.86	17.78	27.94
TBD	34708-3098	20	0.64mm	B	20	0.64mm	C	20	0.64mm	D	99.84	97.37	27.94	27.94	27.94

SYMBOLS
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0

DIMENSION UNITS: mm
SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/02/22
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: JDUNAJ 2009/03/10
APPR: SMARCEAU 2009/03/11

molex

3-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-300	PSD	001	U8

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

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

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:02

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION:

3 BAY PART NUMBER (TUBE PKG)	3 BAY PART NUMBER (TRAY PKG)	BAY A			BAY B			BAY C			DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'
		CKT	TYPE	POL	CKT	TYPE	POL	CKT	TYPE	POL					
	34708-3099	10	HYBRID	A	20	0.64mm	D	10	HYBRID	B	99.84	97.37	27.94	27.94	27.94

SYMBOLS	
A =	0
C =	0
D =	0
S =	0
=	0
C =	0
=	0
=	0
=	0

DIMENSION UNITS	SCALE
mm	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/02/22
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: JDUNAJ 2009/03/10
APPR: SMARCEAU 2009/03/11

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

molex

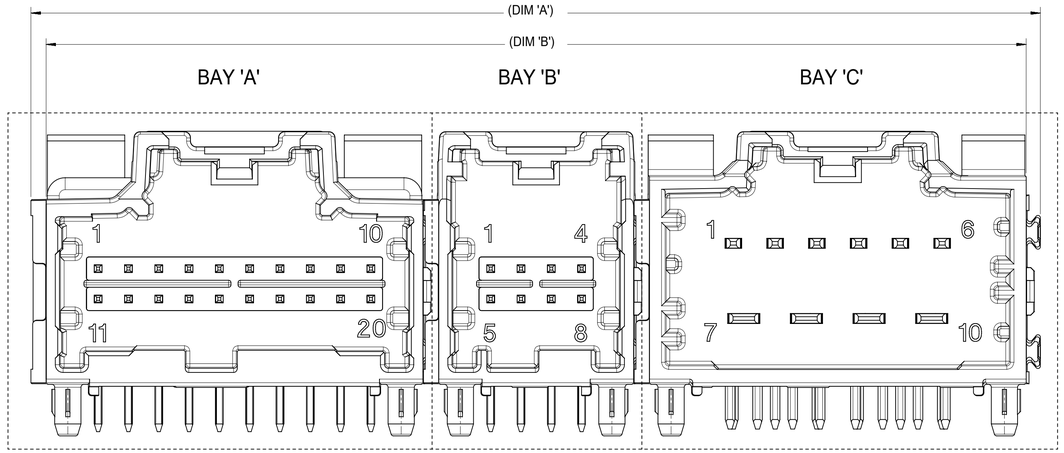
3-BAY STAC64 RIGHT ANGLE
HEADER ASSEMBLY SALES DRAWING

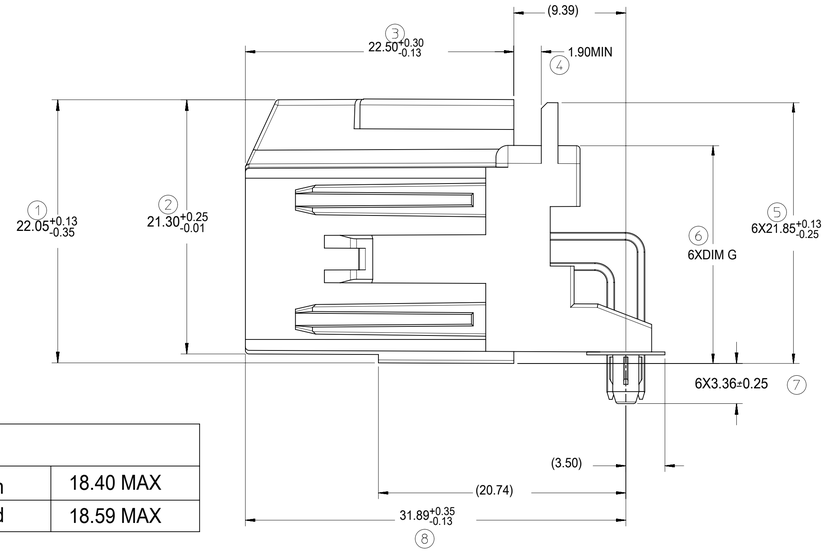
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-300	PSD	001	U8

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	6 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:02

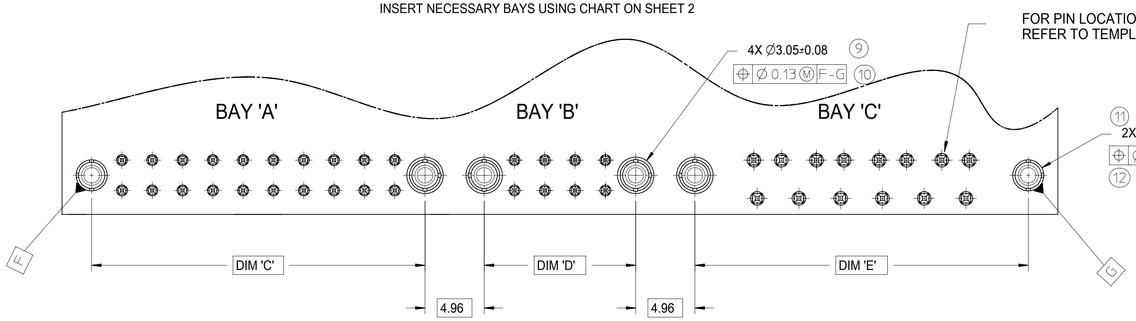




FOR DIM G:	
8-20CKT 0.64mm	18.40 MAX
10/14CKT Hybrid	18.59 MAX

RECOMMENDED PCB LAYOUT

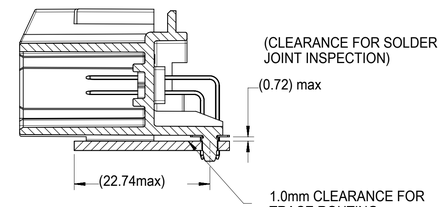
INSERT NECESSARY BAYS USING CHART ON SHEET 2



POST HOLE TABLE:

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

ALL CIRCUIT SIZES



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

SYMBOLS
A = 0
C = 0
D = 0
S = 0
= 0
C = 0
= 0
= 0
= 0

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/02/22
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: JDUNAJ 2009/03/10
APPR: SMARCEAU 2009/03/11

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

molex

3-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

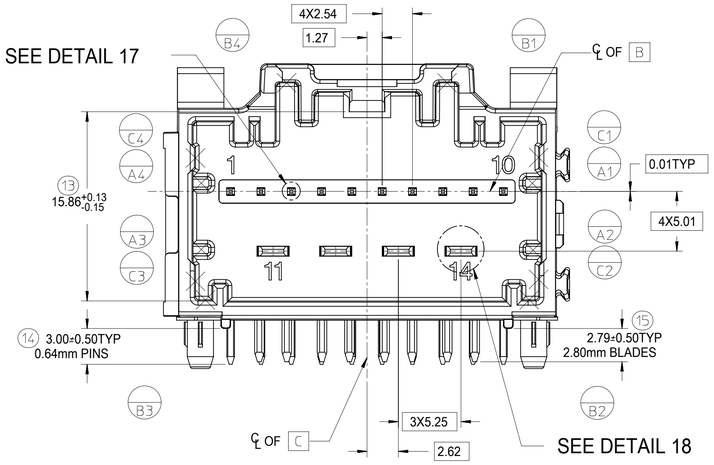
PRODUCT CUSTOMER DRAWING

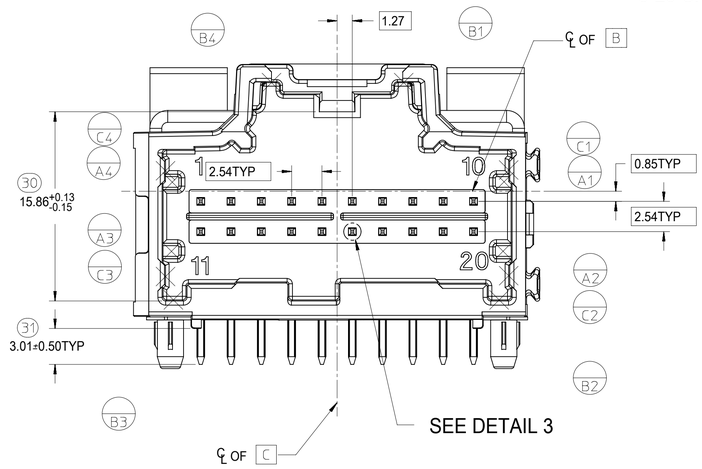
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-300	PSD	001	U8

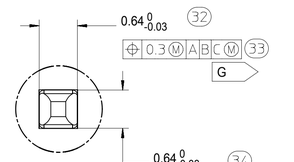
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	3 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:02

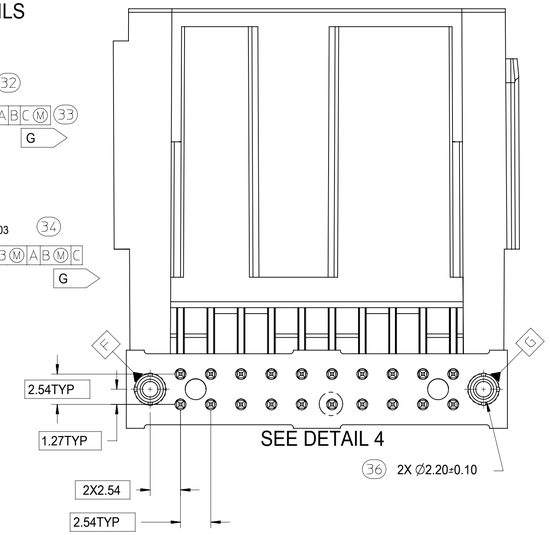
8-20 CKT 0.64mm HEADER DETAILS

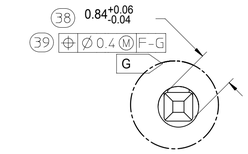




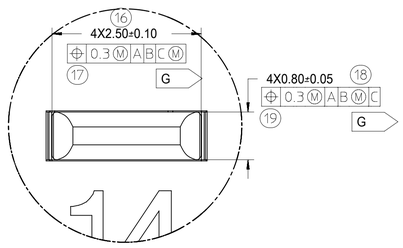


DETAIL 3
SCALE 20:1

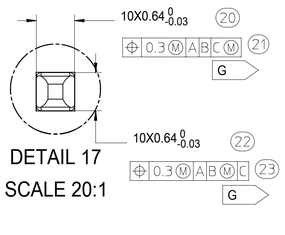




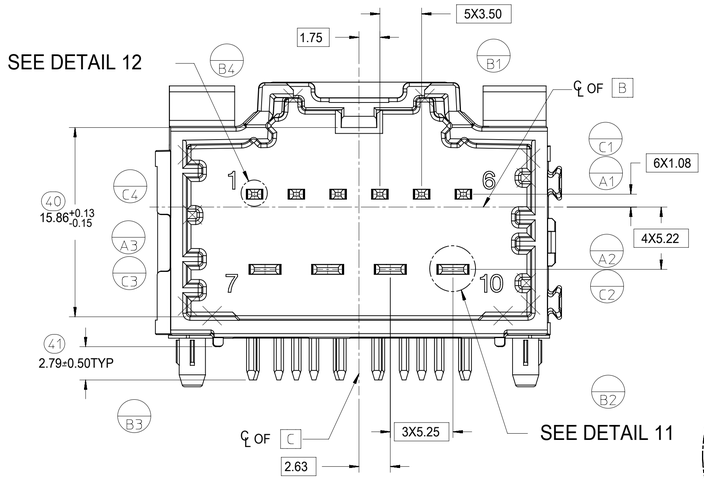
DETAIL 4
SCALE 15:1

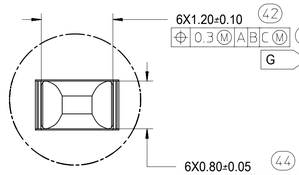


DETAIL 18
SCALE 20:1

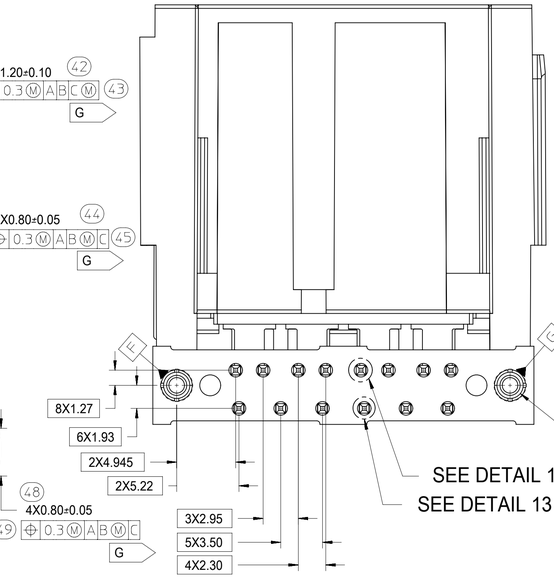


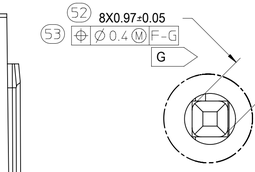
DETAIL 17
SCALE 20:1



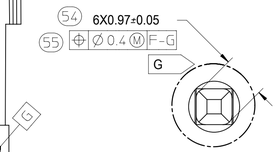


DETAIL 12
SCALE 20:1

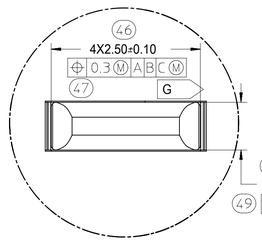




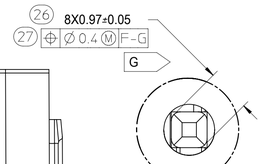
DETAIL 14
SCALE 15:1



DETAIL 13
SCALE 15:1



DETAIL 11
SCALE 20:1



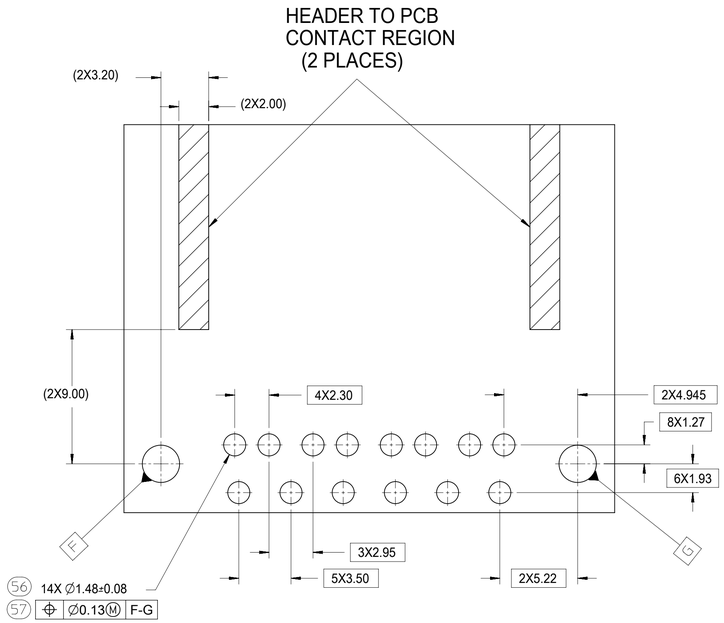
DETAIL 19
SCALE 15:1

DETAIL 20
SCALE 15:1

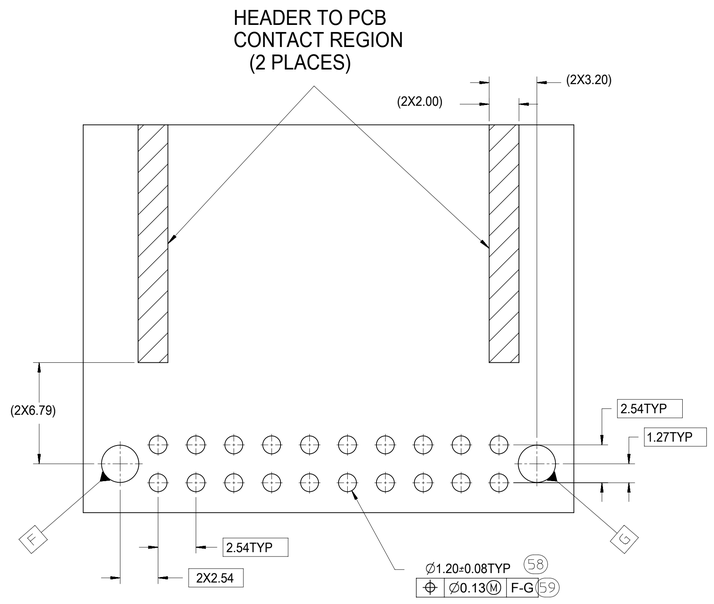
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
E = 0		DIMENSION UNITS: mm	SCALE: 1:1	CURRENT REV DESC:		molex	
E = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)					
E = 0		ANGULAR TOL ± 1.0 °					
S = 0		4 PLACES ±					
▼ = 0		3 PLACES ±				3-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING	
C = 0		2 PLACES ± 0.13		EC NO: 612618			
☒ = 0		1 PLACE ± 0.25		DRWN: SHANDITHAVAL 2019/02/22			
■ = 0		0 PLACES ±		CHK'D: RBAUMAN 2019/02/23		PRODUCT CUSTOMER DRAWING	
V = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: RBAUMAN 2019/02/23			
				INITIAL REVISION:		DOCUMENT NUMBER: SD-34708-300	DOC TYPE: PSD / DOC PART: 001 / REVISION: U8
				DRWN: JDUNAJ 2009/03/10			
				APPR: SMARCEAU 2009/03/11			
				THIRD ANGLE PROJECTION	DRAWING: D-SIZE	SERIES: 34708	MATERIAL NUMBER / CUSTOMER: GENERAL MARKET / SHEET NUMBER: 4 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:02

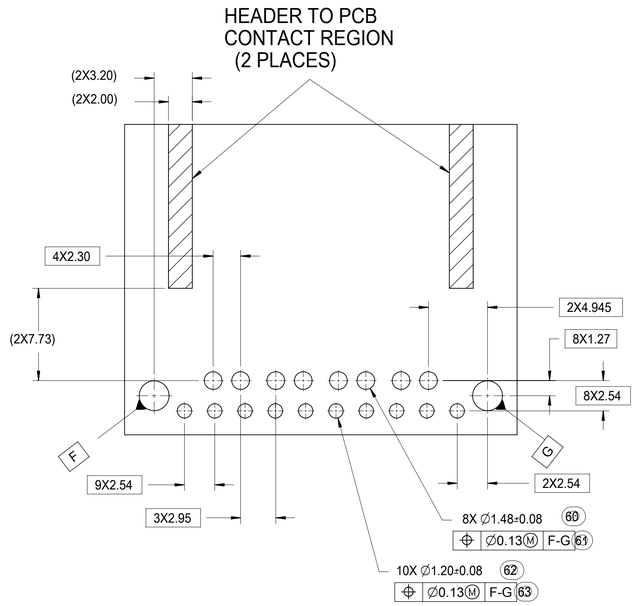
10 CKT HYBRID TEMPLATE PCB LAYOUT



8-20 CKT 0.64mm TEMPLATE PCB LAYOUT



14 CKT HYBRID TEMPLATE PCB LAYOUT



SYMBOLS	
A =	0
E =	0
D =	0
S =	0
=	0
C =	0
=	0
=	0
=	0

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/02/22
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: JDUNAJ 2009/03/10
APPR: SMARCEAU 2009/03/11

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

molex

3-BAY STAC64 RIGHT ANGLE
HEADER ASSEMBLY SALES DRAWING

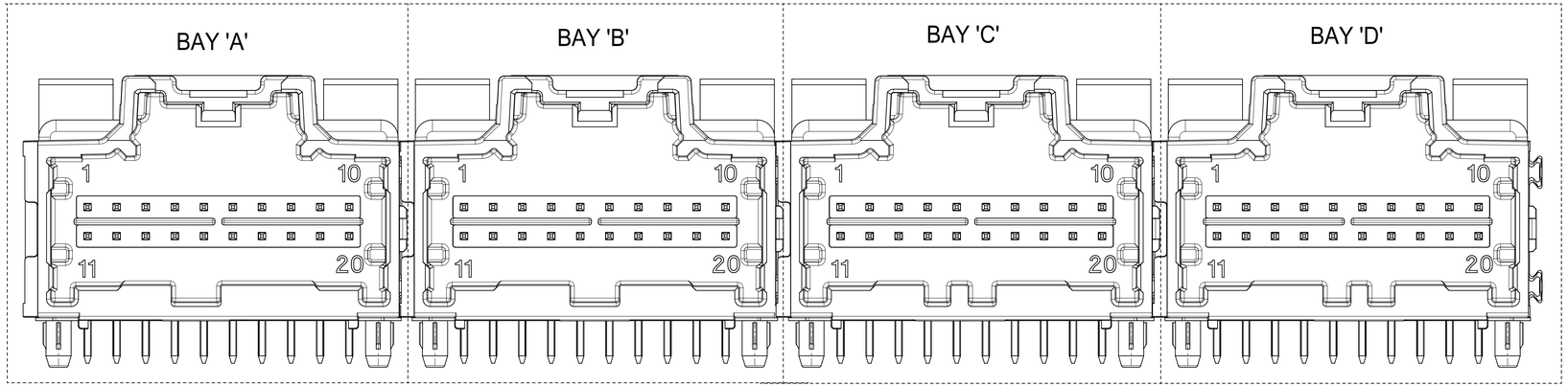
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-300	PSD	001	U8

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	5 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:02

4 BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY
(P/N: 34708-4000 SHOWN)



NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

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

PRODUCT SPECIFICATION:
8-20 CKT 0.64 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. DESIGN: MATERIALS:

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

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

1.50/2.80mm BLADES:
BASE MATERIAL: C19400
PLATING TYPE: AS NOTED

3. PLATING REQUIREMENTS:

a. UNDERPLATING - OVERALL NICKEL

b. OVERPLATING - OVERALL TIN

4. FOR DESCRIPTION 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 HYBIRD: SD-34773-100

SYMBOLS	
A =	0
E =	0
B =	0
S =	0
=	0
C =	0
=	0
=	0
=	0

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/01/23
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: VDANIELE 2008/11/14
APPR: SMARCEAU 2008/11/14

molex

4-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-400	PSD	001	P

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	34708	SEE TABLE	GENERAL MARKET	1 OF 5

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:03

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION

4 BAY PART NUMBER (ALT TRAY)	4 BAY PART NUMBER (TUBE PKG)	4 BAY PART NUMBER (TRAY PKG)	BAY A			BAY B			BAY C			BAY D			DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'
			CKT	TYPE	POL	CKT	TYPE	POL	CKT	TYPE	POL	CKT	TYPE	POL						
TBD	34708-9000	34708-4000	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	20	0.64mm	D	132.74	130.27	27.94	27.94	27.94	27.94
TBD	TBD	34708-4010	12	0.64mm	A	12	0.64mm	B	16	0.64mm	A	8	0.64mm	A	92.10	89.63	17.78	17.78	22.86	12.70
TBD	TBD	34708-4020	16	0.64mm	B	8	0.64mm	B	16	0.64mm	C	12	0.64mm	C	97.18	94.71	22.86	12.70	22.86	17.78
TBD	TBD	34708-4030	16	0.64mm	A	20	0.64mm	A	12	0.64mm	A	20	0.64mm	B	117.50	115.03	22.86	27.94	17.78	27.94
TBD	TBD	34708-4040	20	0.64mm	B	12	0.64mm	A	20	0.64mm	A	12	0.64mm	C	112.42	109.95	27.94	17.78	27.94	17.78
TBD	TBD	34708-4050	20	0.64mm	A	16	0.64mm	A	8	0.64mm	A	10	HYBRID	A	112.42	109.95	27.94	22.86	12.70	27.94
TBD	TBD	34708-4060	20	0.64mm	C	20	0.64mm	A	20	0.64mm	B	12	0.64mm	A	122.58	120.11	27.94	27.94	27.94	17.78
TBD	TBD	34708-4070	12	0.64mm	A	20	0.64mm	D	20	0.64mm	C	20	0.64mm	A	122.58	120.11	17.78	27.94	27.94	27.94
TBD	TBD	34708-4080	20	0.64mm	B	8	0.64mm	A	20	0.64mm	A	12	0.64mm	A	107.34	104.87	27.94	12.70	27.94	17.78
TBD	TBD	34708-4090	12	0.64mm	A	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	122.58	120.11	17.78	27.94	27.94	27.94
TBD	TBD	34708-4011	16	0.64mm	B	16	0.64mm	A	8	0.64mm	A	10	HYBRID	A	107.34	104.87	22.86	22.86	12.70	27.94
TBD	TBD	34708-4012	8	0.64mm	B	20	0.64mm	D	12	0.64mm	A	12	0.64mm	C	97.18	94.71	12.70	27.94	17.78	17.78
TBD	34708-9013	34708-4013	16	0.64mm	A	20	0.64mm	B	20	0.64mm	C	20	0.64mm	D	127.66	125.19	22.86	27.94	27.94	27.94
TBD	TBD	34708-4014	8	0.64mm	A	20	0.64mm	C	20	0.64mm	B	10	HYBRID	A	117.50	115.03	12.70	27.94	27.94	27.94
TBD	34708-9015	34708-4015	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	8	0.64mm	A	117.50	115.03	27.94	27.94	27.94	12.70
TBD	34708-9016	34708-4016	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	12	0.64mm	A	122.58	120.11	27.94	27.94	27.94	17.78
TBD	TBD	34708-4017	20	0.64mm	D	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	132.74	130.27	27.94	27.94	27.94	27.94
TBD	TBD	34708-4018	20	0.64mm	C	20	0.64mm	A	20	0.64mm	B	16	0.64mm	A	127.66	125.19	27.94	27.94	27.94	22.86
34708-9519	TBD	34708-4019	10	HYBRID	A	16	0.64mm	C	12	0.64mm	B	20	0.64mm	A	117.50	115.03	27.94	22.86	17.78	27.94
TBD	TBD	34708-4020	10	HYBRID	A	10	HYBRID	B	20	0.64mm	A	20	0.64mm	B	132.74	130.27	27.94	27.94	27.94	27.94

SYMBOLS

= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/01/23
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: VDANIELE 2008/11/14
APPR: SMARCEAU 2008/11/14

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

molex

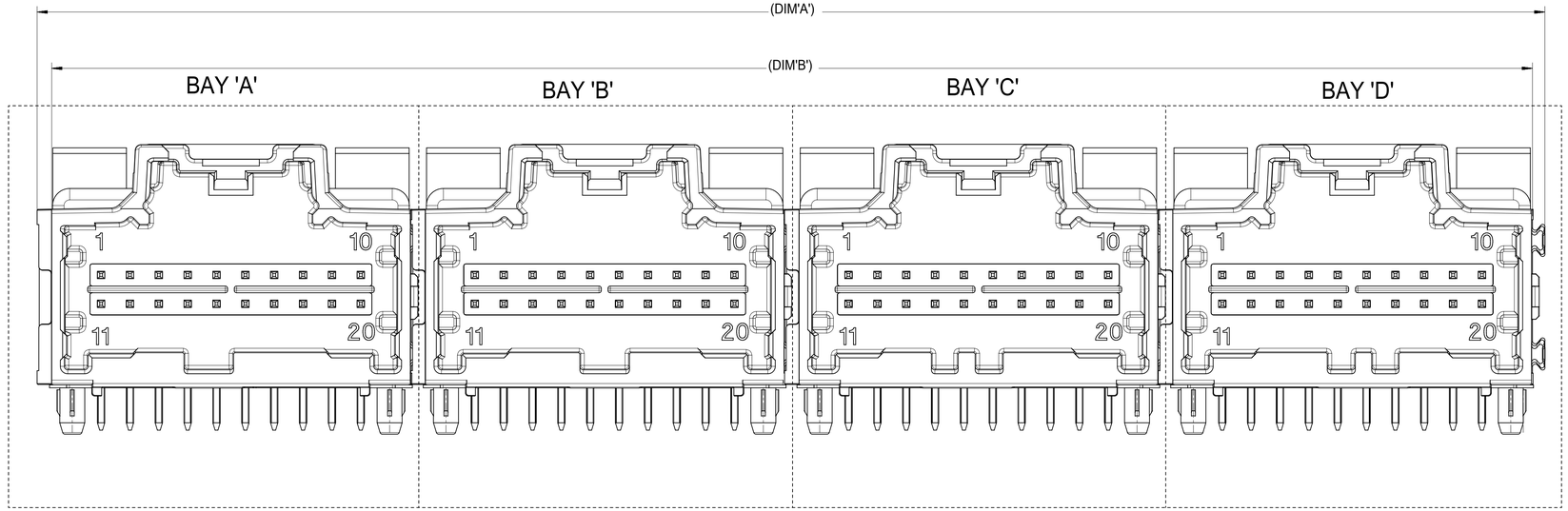
4-BAY STAC64 RIGHT ANGLE
HEADER ASSEMBLY SALES DRAWING

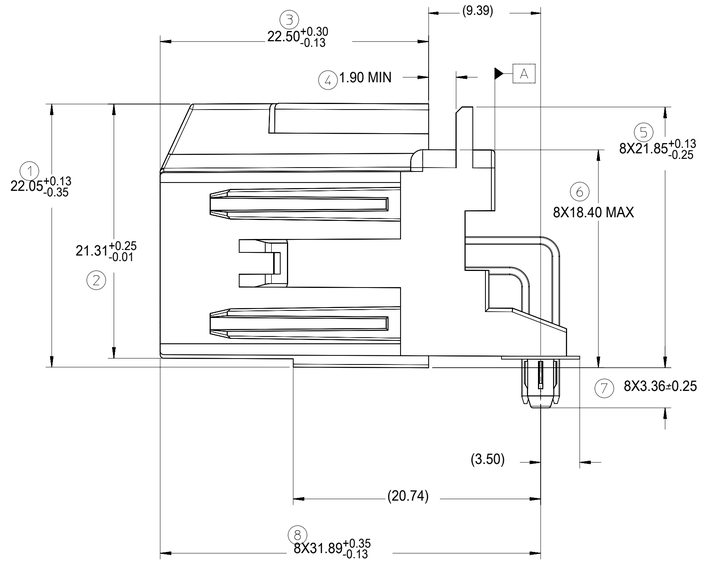
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-400	PSD	001	P

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	2 OF 5

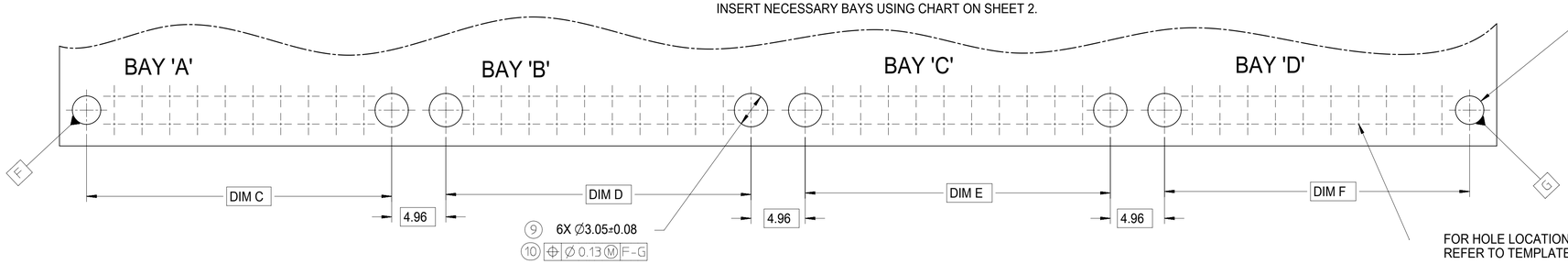
DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:03





RECOMMENDED PCB LAYOUT

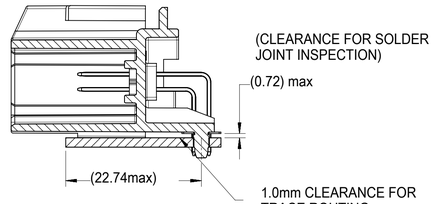
INSERT NECESSARY BAYS USING CHART ON SHEET 2.



POST HOLE TABLE:

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

ALL CIRCUIT SIZES



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

SYMBOLS	
A	= 0
E	= 0
B	= 0
S	= 0
	= 0
C	= 0
	= 0
	= 0
F	= 0

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/01/23
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: VDANIELE 2008/11/14
APPR: SMARCEAU 2008/11/14

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

molex

4-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING

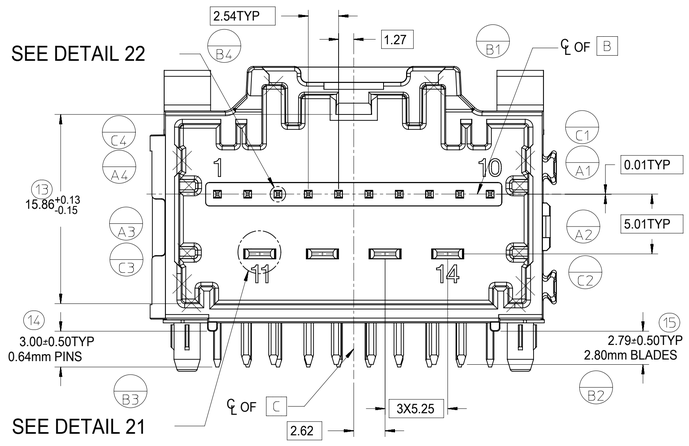
PRODUCT CUSTOMER DRAWING

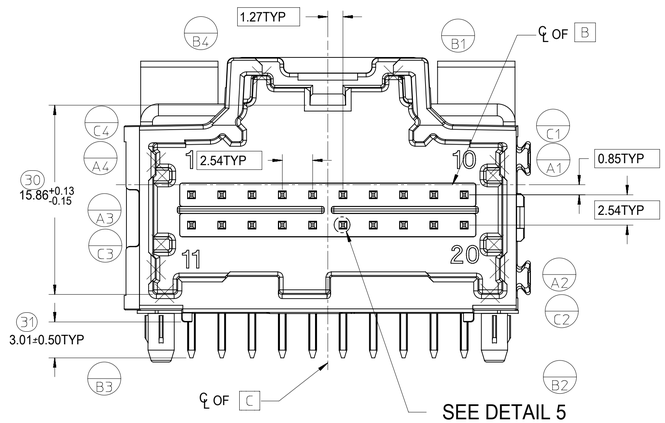
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-400	PSD	001	P

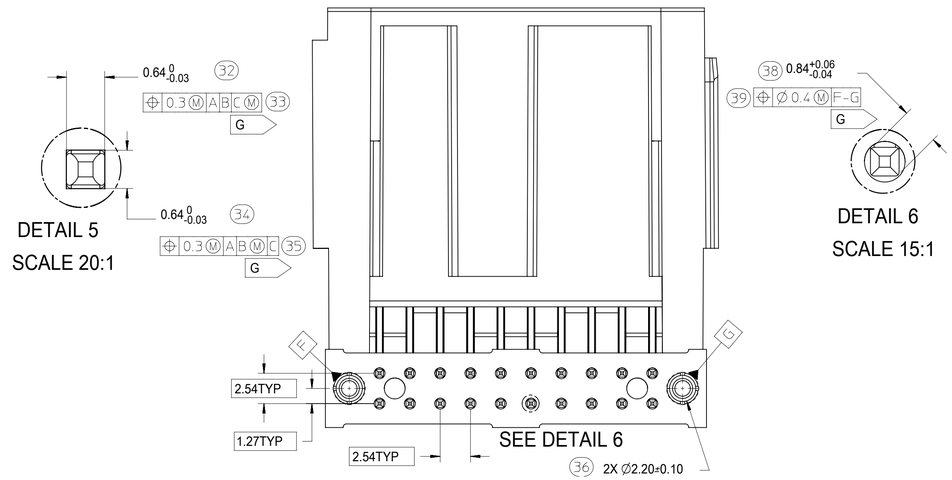
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	3 OF 5

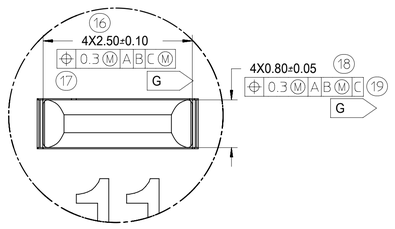
DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:03

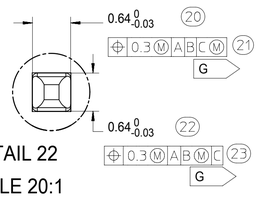
8-20CKT STAC 0.64mm HEADER DETAILS



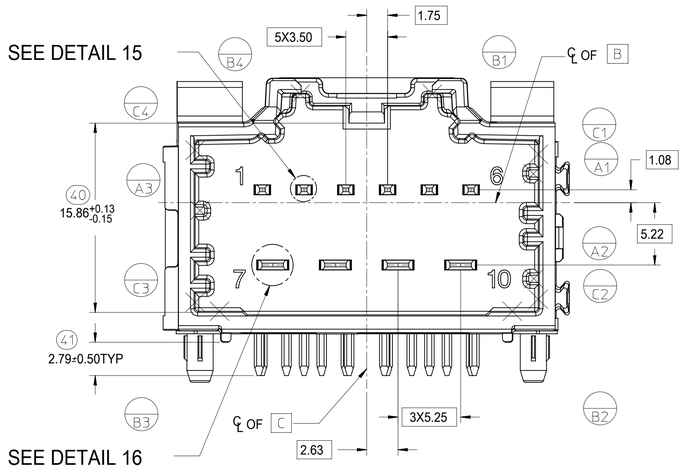


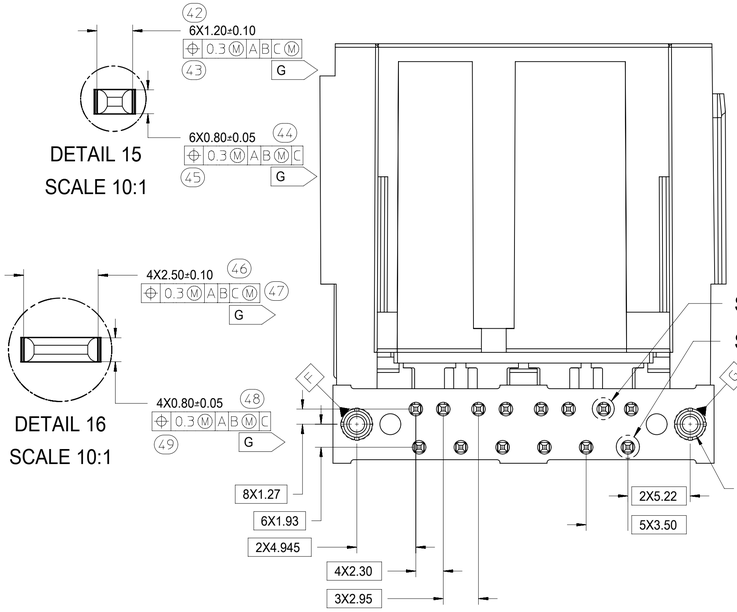


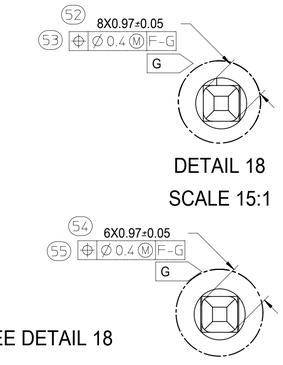


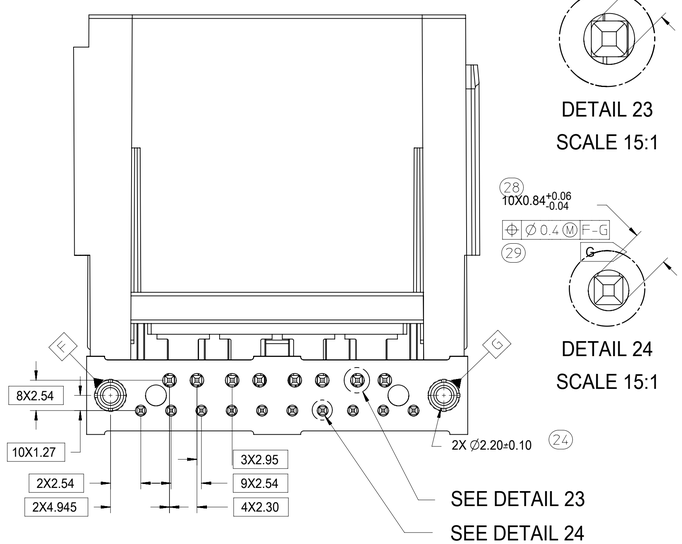


10CKT STAC HYBRID HEADER DETAILS







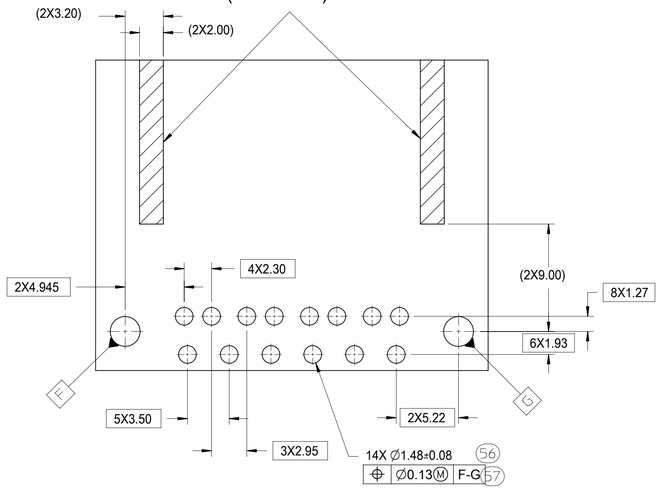


SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
A = 0	DIMENSION UNITS: mm	SCALE: 1:1	CURRENT REV DESC:	molex	
F = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				
E = 0	ANGULAR TOL ± 1.0 °			4-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY SALES DRAWING	
S = 0	4 PLACES ±		EC NO: 612618		
= 0	3 PLACES ±		DRWN: SHANDITHAVAL 2019/01/23	PRODUCT CUSTOMER DRAWING	
C = 0	2 PLACES ± 0.13		CHK'D: RBAUMAN 2019/02/23	DOCUMENT NUMBER: SD-34708-400	DOC TYPE: PSD; DOC PART: 001; REVISION: P
= 0	1 PLACE ± 0.25		APPR: RBAUMAN 2019/02/23		
= 0	0 PLACES ±		INITIAL REVISION:		
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: VDANIELE 2008/11/14		
V = 0			APPR: SMARCEAU 2008/11/14		
			THIRD ANGLE PROJECTION	DRAWING: D-SIZE; SERIES: 34708	MATERIAL NUMBER: SEE TABLE; CUSTOMER: GENERAL MARKET; SHEET NUMBER: 4 OF 5

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:03

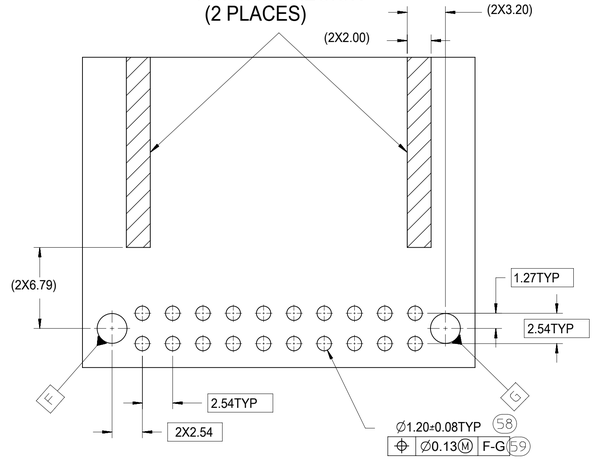
10 CKT HYBRID TEMPLATE
PCB LAYOUT

HEADER TO PCB
CONTACT REGION
(2 PLACES)



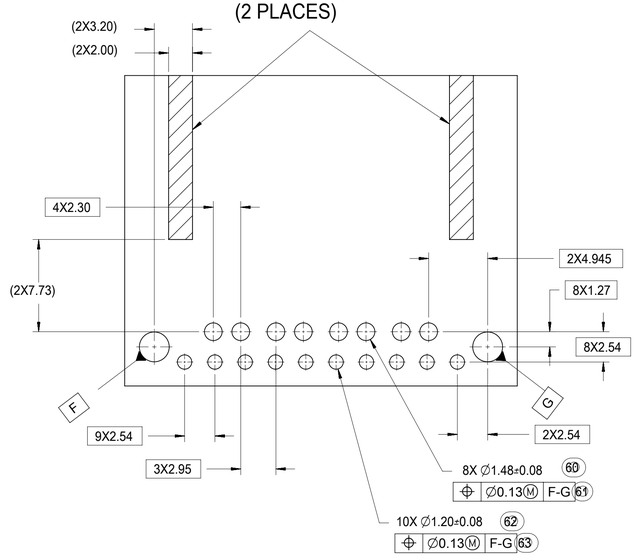
8-20CKT 0.64mm TEMPLATE
PCB LAYOUT

HEADER TO PCB
CONTACT REGION
(2 PLACES)



14 CKT HYBRID TEMPLATE
PCB LAYOUT

HEADER TO PCB
CONTACT REGION
(2 PLACES)



SYMBOLS	
A = 0	
B = 0	
C = 0	
S = 0	
= 0	
= 0	
= 0	
= 0	

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 612618
DRWN: SHANDITHAVAL 2019/01/23
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

INITIAL REVISION:
DRWN: VDANIELE 2008/11/14
APPR: SMARCEAU 2008/11/14

molex

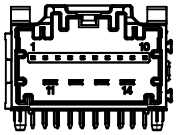
4-BAY STAC64 RIGHT ANGLE
HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

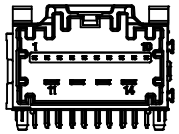
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34708-400	PSD	001	P

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	34708	SEE TABLE	GENERAL MARKET	5 OF 5

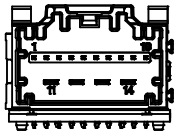
DOCUMENT STATUS	P1	RELEASE DATE	2019/02/23 23:33:03



POLARIZATION OPTION "A"
PN/ 34773-0140



POLARIZATION OPTION "B"
PN/ 34773-0141



POLARIZATION OPTION "C"
PN/ 34773-0142

MATERIAL NUMBER		CKT SIZE	DESCRIPTION	POL	COLOR
TRAY PACKAGING PK-31300-892	TUBE PACKAGING PK-31301-063				
34773-0140	34773-9140	14	STAC64 RIGHT ANGLE HEADER ASSEMBLY MYLAR PAP (4 x 2.8mm + 10 x 0.64mm)	A	BLACK
34773-0141	34773-9141	14	STAC64 RIGHT ANGLE HEADER ASSEMBLY MYLAR PAP (4 x 2.8mm + 10 x 0.64mm)	B	GREY
34773-0142	34773-9142	14	STAC64 RIGHT ANGLE HEADER ASSEMBLY MYLAR PAP (4 x 2.8mm + 10 x 0.64mm)	C	BROWN
34773-1140	34773-8140	14	STAC64 RIGHT ANGLE HEADER ASSEMBLY THERMAVOLT PAP (4 x 2.8mm + 10 x 0.64mm)	A	BLACK
34773-1141	34773-8141	14	STAC64 RIGHT ANGLE HEADER ASSEMBLY THERMAVOLT PAP (4 x 2.8mm + 10 x 0.64mm)	B	GREY
34773-1142	34773-8142	14	STAC64 RIGHT ANGLE HEADER ASSEMBLY THERMAVOLT PAP (4 x 2.8mm + 10 x 0.64mm)	C	BROWN

NOTES: VALID UNLESS OTHERWISE SPECIFIED
1. GENERAL:

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

PIN RETENTION = USCAR-2 REV 5

SOLDERABILITY = SMES-152

b. APPLICATION REQUIREMENTS (REFERENCE ONLY) FOR:

SEE APPLICATION SPECIFICATION = TBD

SEE PRODUCT SPECIFICATION = TBD

MATES WITH: 34776-014*/34916-014*/34927-014*/34969-014*

c. PACKAGING SPECIFICATION SEE CHART.

2. DESIGN: MATERIALS:

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

b. 0.64mm BLADES:
BASE MATERIAL: C26000
PLATING TYPE: AS NOTED

2.80mm BLADES:
BASE MATERIAL: C19400
PLATING TYPE: AS NOTED

c. PIN ALIGNMENT PLATE : MYLAR OR THERMAVOLT

3. PLATING REQUIREMENTS:

a. UNDERPLATING - OVERALL NICKEL

b. OVERPLATING - OVERALL TIN

ENTER DESCRIPTION
EC NO: UAU2017-1154 2017/06/22
DRWN: JFISCHER01 2017/06/28
CHKD:
APPR: RBAUMAN
DESCRIPTION
C1
REV

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	±	±

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

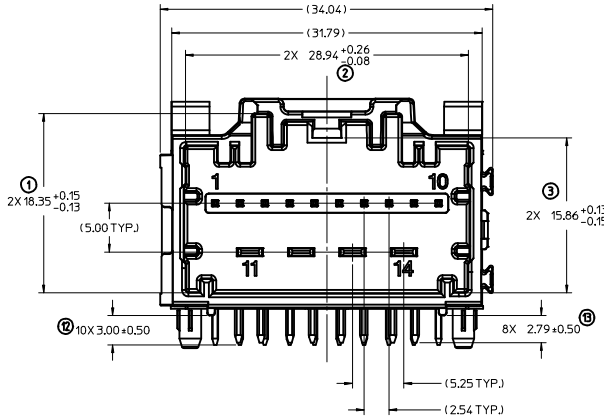
DRAWN BY: LSONG05 DATE: 2011/01/13
CHECKED BY: VDANIELE DATE: 2011/01/13
APPROVED BY: SMARCEAU DATE: 2011/01/28
MATERIAL NO.: SEE TABLE

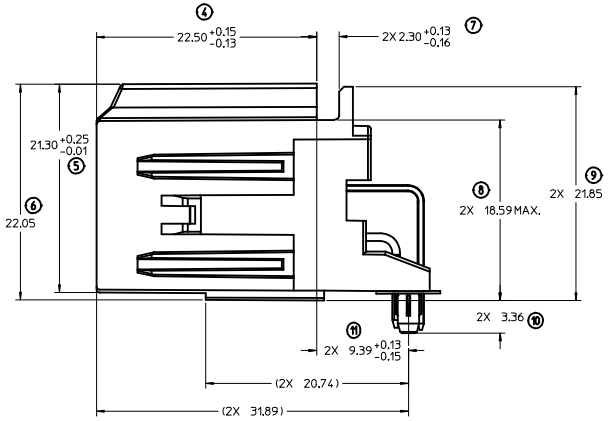
TITLE: STAC64 SINGLE BAY RIGHT ANGLE ASSEMBLY 14 CKT HYBRID

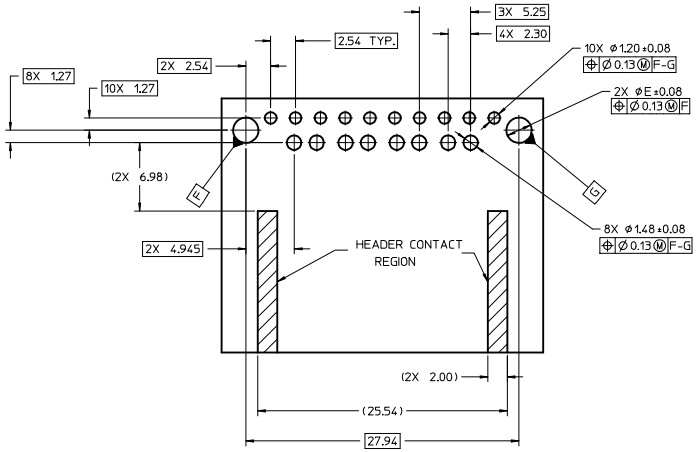
molex

DOCUMENT NO.: SD-34773-010
SHEET NO.: 1 OF 2

SIZE: D



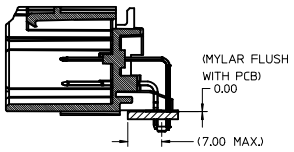




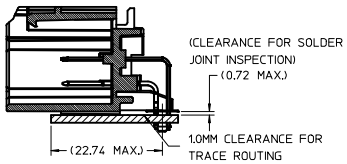
POST HOLE TABLE

	DIM E
PRESS FIT	Ø2.60
DROP IN	Ø3.05

RECOMMENDED PCB LAYOUT



PANEL MOUNTING
SCALE 2:1



FLUSH MOUNTING
SCALE 2:1

* RECOMMENDED FOR PIN THROUGH PASTE REFLOW PROCESSING

ENTER DESCRIPTION
EC NO: UAU2017-1154 2017/06/22
DRWN: JFISCHER01 2017/06/28
CHKD:
APPR: RBAUMAN
DESCRIPTION
C1
REV

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	±	±

ANGULAR ± 3 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: LSONG05 DATE: 2011/01/13
CHECKED BY: VDANIELE DATE: 2011/01/13
APPROVED BY: SMARCEAU DATE: 2011/01/28
MATERIAL NO.: SEE SHEET 1

TITLE: STAC64 SINGLE BAY RIGHT ANGLE ASSEMBLY 14 CKT HYBRID

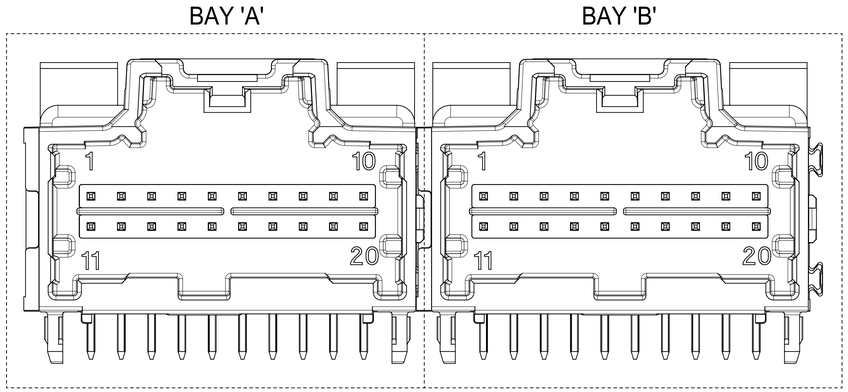
molex

DOCUMENT NO.: SD-34773-010
SHEET NO.: 2 OF 2
SIZE: D

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION:

2 BAY PART NUMBER (TUBE PKG)	2 BAY PART NUMBER (TRAY PKG)	BAY A			BAY B			DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
		CKT	TYPE	POL	CKT	TYPE	POL				
34997-7000	34997-2000	20	0.64mm	A	20	0.64mm	B	66.94	64.47	27.94	27.94
34997-7001	34997-2001	20	0.64mm	C	8	0.64mm	A	51.70	49.23	27.94	12.70
34997-7002	34997-2002	20	0.64mm	C	12	0.64mm	A	56.78	54.31	27.94	17.78
TBD	34997-2003	8	0.64mm	A	10	HYBRID	A	51.70	49.23	12.70	27.94
TBD	34997-2004	12	0.64mm	A	8	0.64mm	A	41.54	39.07	17.78	12.70
TBD	34997-2005	20	0.64mm	C	20	0.64mm	B	66.94	64.47	27.94	27.94
TBD	34997-2006	10	HYBRID	A	20	0.64mm	A	66.94	64.47	27.94	27.94
TBD	34997-2007	12	0.64mm	A	8	0.64mm	B	41.54	39.07	17.78	12.70
TBD	34997-2008	20	0.64mm	A	16	0.64mm	C	61.86	59.39	27.94	22.86
TBD	34997-2009	20	0.64mm	A	16	0.64mm	A	56.78	54.31	27.94	17.78
34997-7010	34997-2010	20	0.64mm	A	8	0.64mm	A	51.70	49.23	27.94	12.70
34997-7011	34997-2011	20	0.64mm	B	8	0.64mm	A	51.70	49.23	27.94	12.70
TBD	34997-2012	12	0.64mm	A	12	0.64mm	C	46.62	44.15	17.78	17.78
34997-7013	34997-2013	20	0.64mm	B	20	0.64mm	C	66.94	64.47	27.94	27.94
34997-7014	34997-2014	10	HYBRID	B	10	HYBRID	A	66.94	64.47	27.94	27.94
TBD	34997-2015	12	0.64mm	B	16	0.64mm	A	51.70	49.23	17.78	22.86
34997-7016	34997-2016	10	HYBRID	B	20	0.64mm	A	66.94	64.47	27.94	27.94
34997-7017	34997-2017	16	0.64mm	B	16	0.64mm	C	56.78	54.31	22.86	22.86
TBD	34997-2018	14	HYBRID	A	10	HYBRID	A	66.94	64.47	27.94	27.94
TBD	34997-2019	12	0.64mm	A	20	0.64mm	B	56.78	54.31	17.78	27.94
TBD	34997-2020	10	HYBRID	B	12	0.64mm	A	56.78	54.31	27.94	17.78
TBD	34997-2021	12	0.64mm	A	8	0.64mm	B	41.54	39.07	17.78	12.70
TBD	34997-2022	10	HYBRID	A	12	0.64mm	A	56.78	54.31	27.94	17.78

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 0.64 PRODUCT SPEC: PS-34729-020/PS-31408-100
10/14CKT HYBRID PRODUCT SPEC: PS-34696-100

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)

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

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-34691-601
10CKT HYBRID: SD-34696-100
14CKT HYBRID: SD-34773-010

DOCUMENT STATUS	P1	RELEASE DATE	2019/06/11 20:37:32

SYMBOLS: FA = 0, FC = 0, FB = 0, S = 0, ▼ = 0, C = 0, ☒ = 0, ■ = 0, ▽ = 0

DIMENSION UNITS: mm
SCALE: 4:1
GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.13
1 PLACE ± 0.25
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDED NEW P/N 34997-2022 (10HA AND 12A)

EC NO: 618886
DRWN: SHANDITHAVAL 2019/06/11
CHK'D: RBAUMAN 2019/06/11
APPR: RBAUMAN 2019/06/11

INITIAL REVISION:
DRWN: JFISCHER01 2013/05/28
APPR: RBAUMAN 2013/05/30

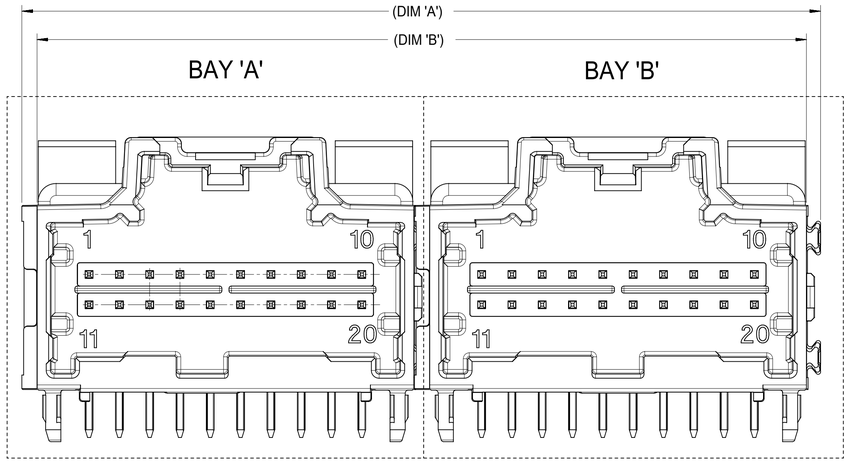
THIRD ANGLE PROJECTION
DRAWING: D-SIZE
SERIES: 34997
MATERIAL NUMBER: SEE TABLE
CUSTOMER: GENERAL MARKET
SHEET NUMBER: 1 OF 3

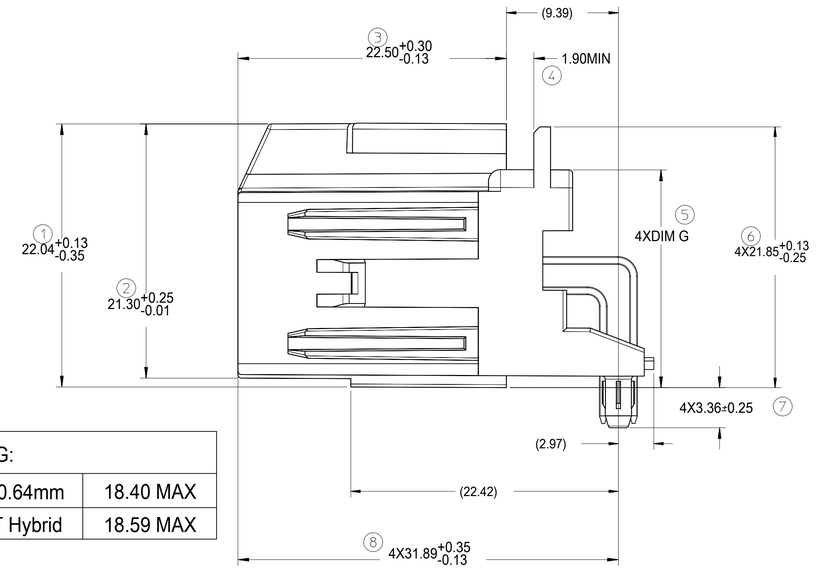
molex

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	J5

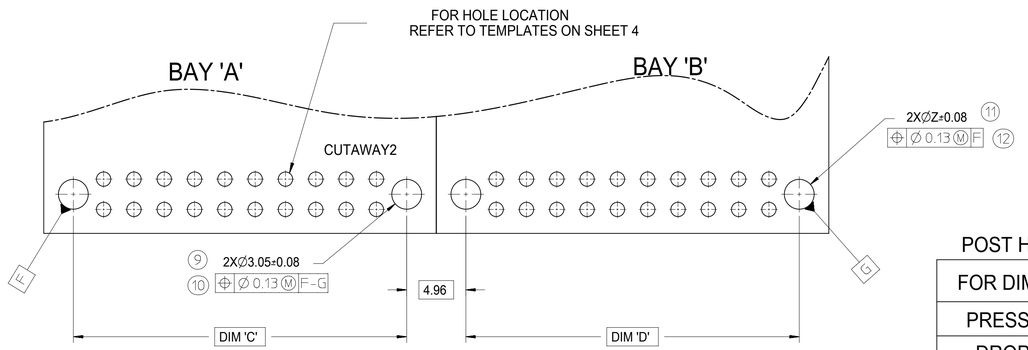




FOR DIM G:	
8-20CKT 0.64mm	18.40 MAX
10/14CKT Hybrid	18.59 MAX

RECOMMENDED PCB LAYOUT

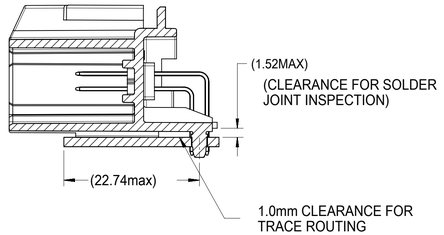
INSERT NECESSARY BAYS USING CHART ON SHEET 1.



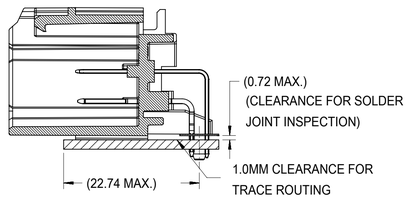
POST HOLE TABLE:

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

SYMBOLS
A = 0
C = 0
D = 0
S = 0
= 0
= 0
C = 0
= 0
= 0
= 0

DIMENSION UNITS	SCALE
mm	4:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDED NEW P/N 34997-2022 (10HA AND 12A)

EC NO: 618886
DRWN: SHANDITHAVAL 2019/06/11
CHK'D: RBAUMAN 2019/06/11
APPR: RBAUMAN 2019/06/11

INITIAL REVISION:
DRWN: JFISCHER01 2013/05/28
APPR: RBAUMAN 2013/05/30

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

molex

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

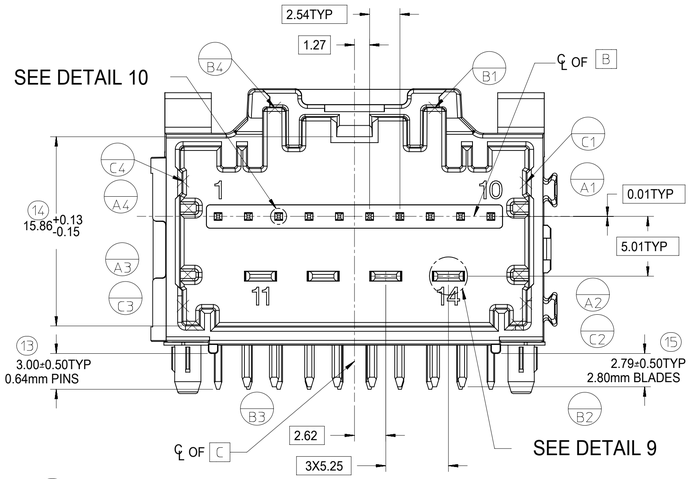
PRODUCT CUSTOMER DRAWING

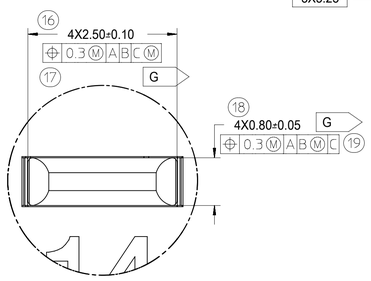
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34997-200	PSD	001	J5

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	2 OF 3

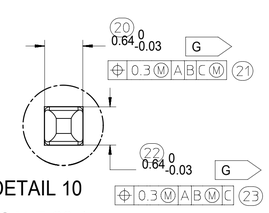
DOCUMENT STATUS	P1	RELEASE DATE	2019/06/11 20:37:32

14CKT STAC HYBRID HEADER DETAILS

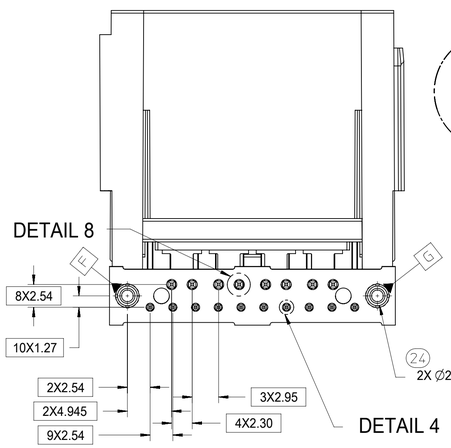




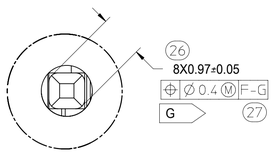
DETAIL 9
SCALE 20:1



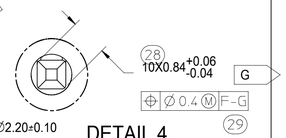
DETAIL 10
SCALE 20:1



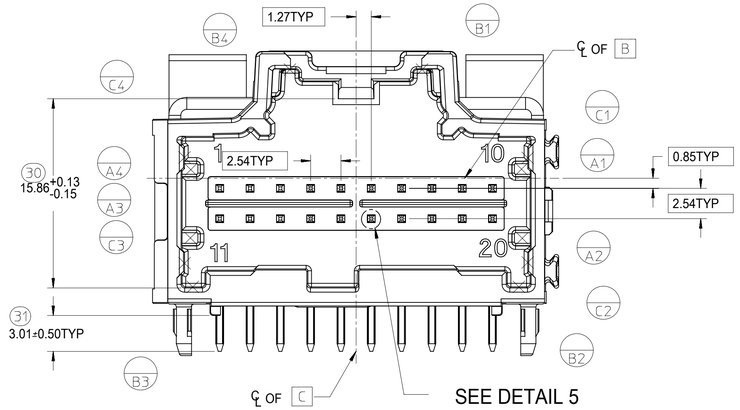
DETAIL 4



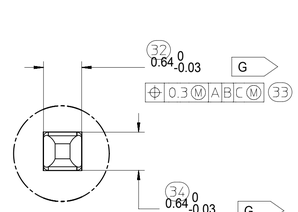
DETAIL 8
SCALE 15:1



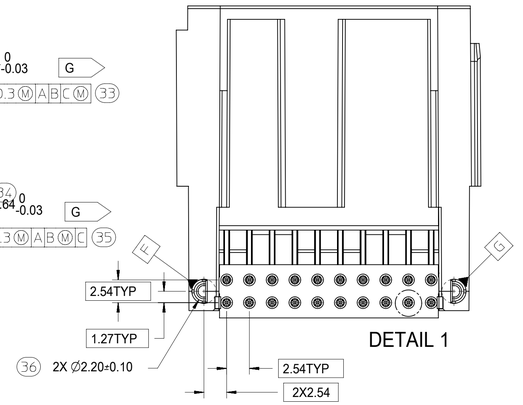
DETAIL 4
SCALE 15:1



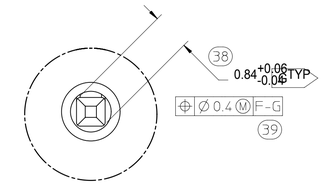
8-20CKT STAC64 HEADER DETAILS



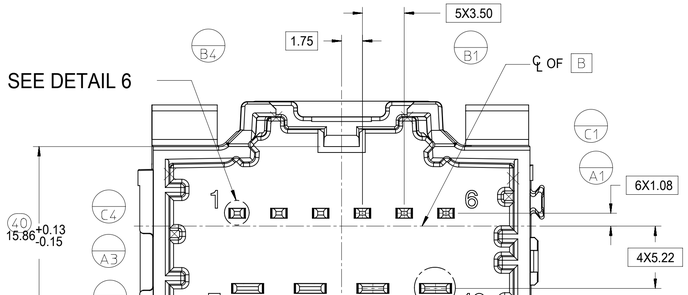
DETAIL 5
SCALE 20:1



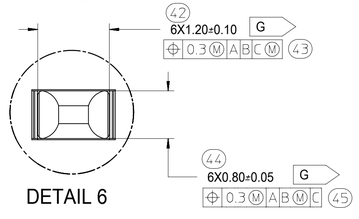
DETAIL 1



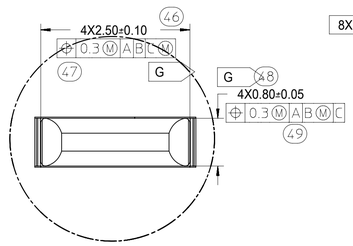
DETAIL 1
SCALE 15:1



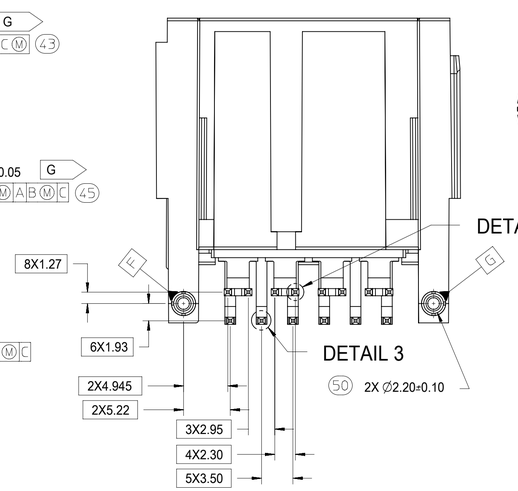
10CKT STAC HYBRID HEADER DETAILS



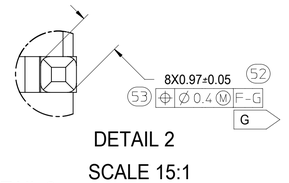
DETAIL 6
SCALE 20:1



DETAIL 7
SCALE 20:1



DETAIL 3



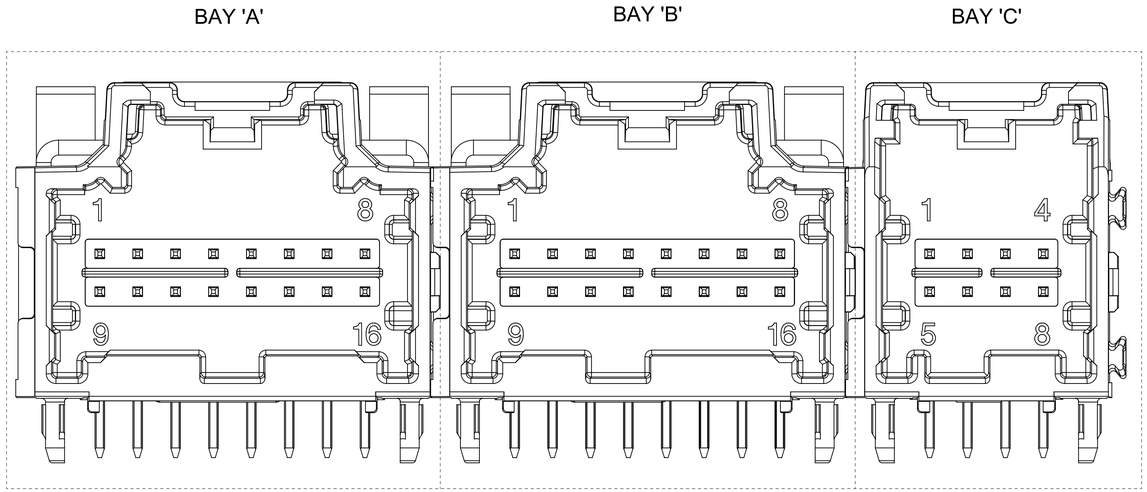
DETAIL 2
SCALE 15:1

DETAIL 3
SCALE 15:1

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
E = 0	DIMENSION UNITS: mm	SCALE: 4:1	CURRENT REV DESC: ADDED NEW P/N 34997-2022 (10HA AND 12A)	molex	
E = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			2-BAY STAC64 RIGHT ANGLE PAP LONG PIN HEADER ASSEMBLY SALES DRAWING	
E = 0	ANGULAR TOL ± 1.0 °		EC NO: 618886		
S = 0	4 PLACES ±		DRWN: SHANDITHAVAL 2019/06/11	PRODUCT CUSTOMER DRAWING	
▼ = 0	3 PLACES ±		CHK'D: RBAUMAN 2019/06/11		
C = 0	2 PLACES ± 0.13		APPR: RBAUMAN 2019/06/11	DOCUMENT NUMBER: SD-34997-200	DOC TYPE: PSD / DOC PART: 001 / REVISION: J5
☒ = 0	1 PLACE ± 0.25		INITIAL REVISION:		
■ = 0	0 PLACES ±		DRWN: JFISCHER01 2013/05/28		
V = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: RBAUMAN 2013/05/30		
	THIRD ANGLE PROJECTION	DRAWING: D-SIZE	SERIES: 34997	MATERIAL NUMBER: SEE TABLE	CUSTOMER: GENERAL MARKET / SHEET NUMBER: 3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2019/06/11 20:37:32

3-BAY STAC64 RIGHT ANGLE HEADER ASSEMBLY
(P/N: 34997-3000 SHOWN)



DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION:

3 BAY PART NUMBER (TUBE PKG)	3 BAY PART NUMBER (TRAY PKG)	BAY A			BAY B			BAY C			DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'
		CKT	TYPE	POL	CKT	TYPE	POL	CKT	TYPE	POL					
TBD	34997-3000	16	0.64mm	B	16	0.64mm	A	8	0.64mm	A	74.44	71.97	22.86	22.86	12.70
TBD	34997-3001	12	0.64mm	A	12	0.64mm	B	16	0.64mm	A	74.44	71.97	17.78	17.78	22.86
TBD	34997-3002	16	0.64mm	A	12	0.64mm	A	20	0.64mm	A	84.60	82.13	22.86	17.78	27.94
TBD	34997-3003	16	0.64mm	A	20	0.64mm	A	12	0.64mm	A	84.60	82.13	22.86	27.94	17.78
TBD	34997-3004	20	0.64mm	A	20	0.64mm	B	8	0.64mm	A	84.60	82.13	27.94	27.94	12.70
TBD	34997-3005	10	HYBRID	A	16	0.64mm	A	8	0.64mm	A	79.52	77.05	27.94	22.86	12.70
TBD	34997-3006	12	0.64mm	A	8	0.64mm	B	16	0.64mm	C	69.36	66.89	17.78	12.70	22.86
TBD	34997-3007	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	99.84	97.37	27.94	27.94	27.94
TBD	34997-3008	20	0.64mm	D	16	0.64mm	C	12	0.64mm	C	84.60	82.13	27.94	22.86	17.78
34997-8009	34997-3009	20	0.64mm	C	20	0.64mm	B	20	0.64mm	A	99.84	97.37	27.94	27.94	27.94
34997-8010	34997-3010	12	0.64mm	C	16	0.64mm	C	20	0.64mm	D	84.60	82.13	17.78	22.86	27.94
TBD	34997-3011	8	0.64mm	A	8	0.64mm	B	8	0.64mm	C	54.12	51.65	12.70	12.70	12.70
TBD	34997-3012	14	HYBRID	C	20	0.64mm	B	8	0.64mm	A	84.60	82.13	27.94	27.94	12.70
TBD	34997-3013	10	HYBRID	A	10	HYBRID	B	14	HYBRID	A	99.84	97.37	27.94	27.94	27.94
TBD	34997-3014	10	HYBRID	A	16	0.64mm	B	20	0.64mm	C	94.76	92.29	27.94	22.86	27.94

NOTES: VALID UNLESS OTHERWISE SPECIFIED
1. GENERAL:

a. CONNECTOR HEADER MUST BE VALIDATED TO THE FOLLOWING FUNCTIONAL REQUIREMENT:
   PRODUCT SPECIFICATION:
   8-20 CKT 0.64 PRODUCT SPEC: PS-34729-020/PS-31408-100
   10/14CKT HYBRID PRODUCT SPEC: PS-34696-100
b. APPLICATION REQUIREMENTS (REFERENCE ONY):
   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))

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

3. PLATING REQUIREMENTS:

a. UNDERPLATING - OVERALL NICKEL
b. OVERPALTING - OVERALL TIN

4. FOR DESCRIPTION OF INDIVIDUAL BAYS, REFER TO THE FOLLOWING
   SINGLE BAY DRAWINGS:
   8-20 CKT 0.64: SD-34691-601
   10CKT HYBIRD: SD-34696-100
   14CKT HYBRID: SD-34773-010

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

QUALITY SYMBOLS
E/A = 0
E/C = 0
E/F = 0
= 0
C = 0
= 0
= 0
G = 0

2019/03/28 EC NO: 614668
2019/03/29 DRWN: SHANDITHAVAL
2019/03/29 CHK'D: RBAUMAN
APPR: RBAUMAN
REV L8

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.13
1 PLACE ± 0.25
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm
SCALE: 5:1
DRWN BY: JFISCHER01 DATE: 2013/05/31
CHK'D BY: DATE:
APPR BY: RBAUMAN DATE: 2013/06/04
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

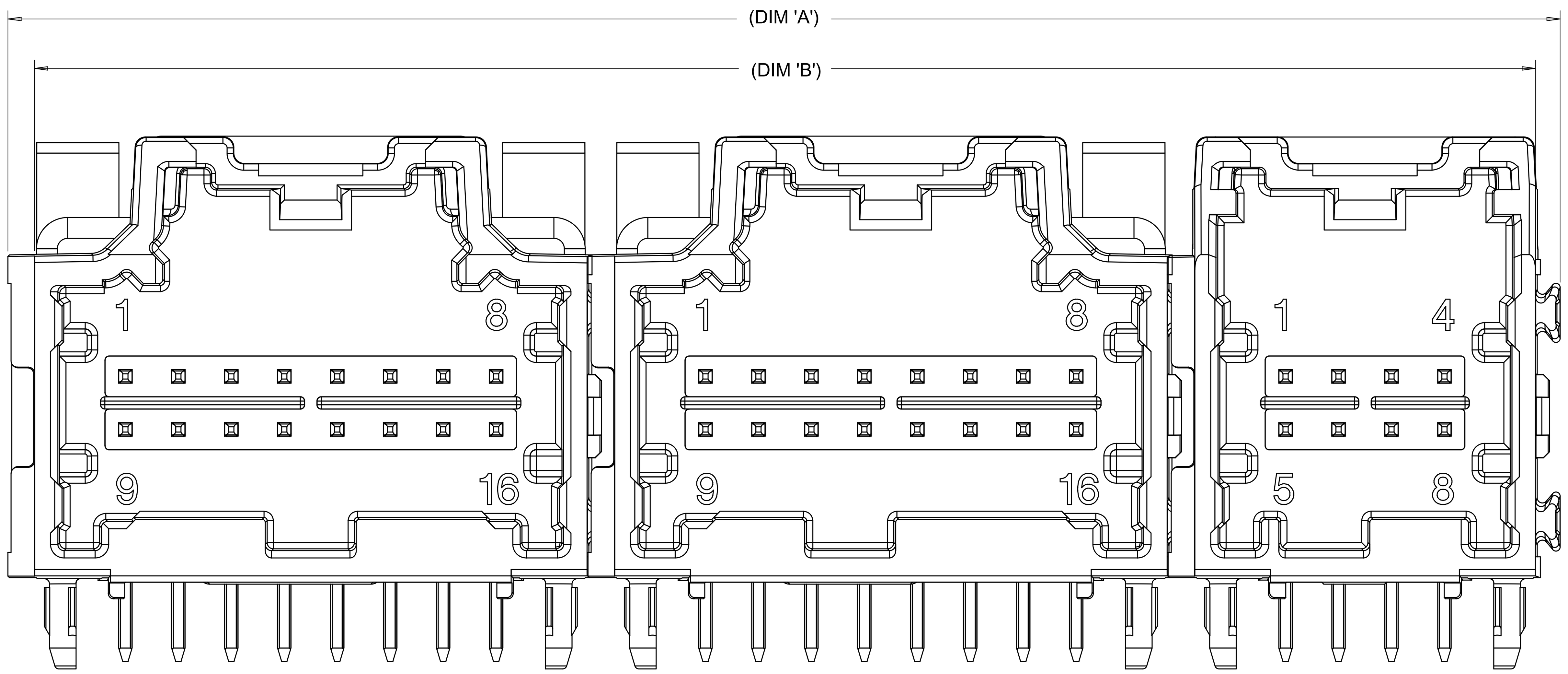
STAC64 3-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

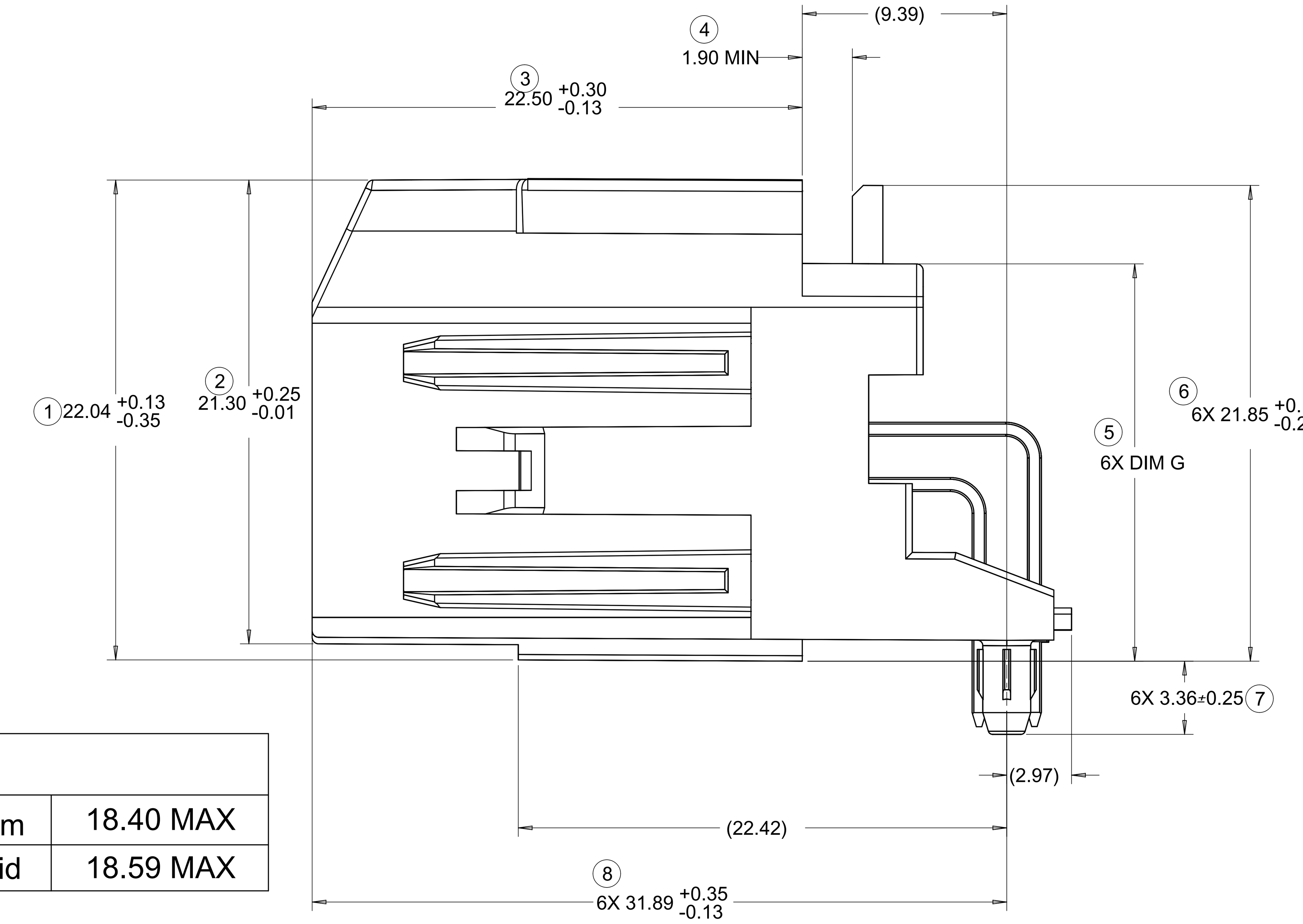
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-300	PSD	001	1 OF 4

RELEASE STATUS	P1	RELEASE DATE	2019/03/29 21:17:43

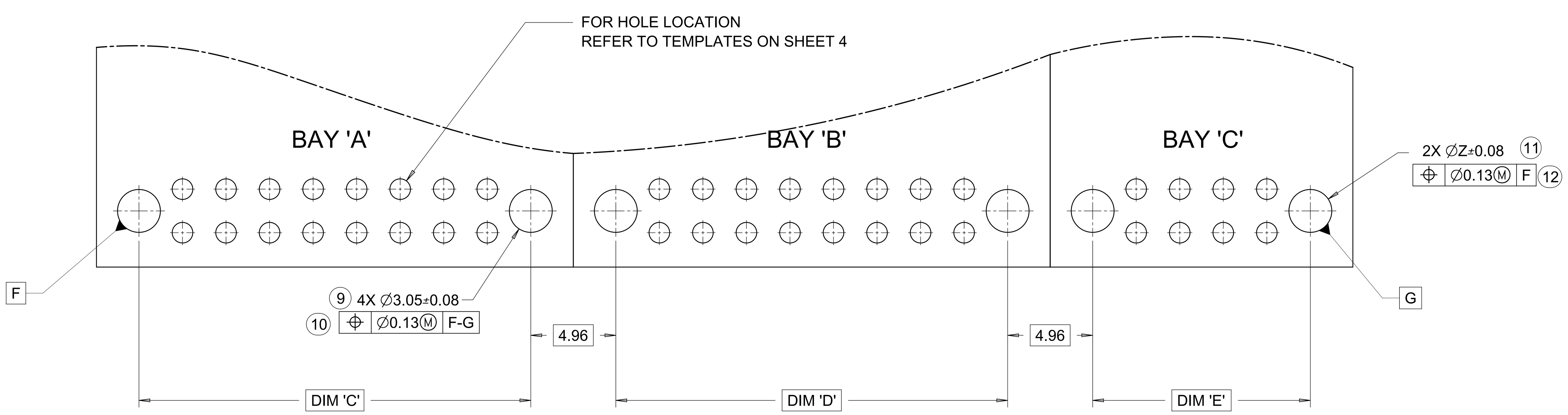




FOR DIM G:	
8-20CKT 0.64mm	18.40 MAX
10/14CKT Hybrid	18.59 MAX

RECOMMENDED PCB LAYOUT

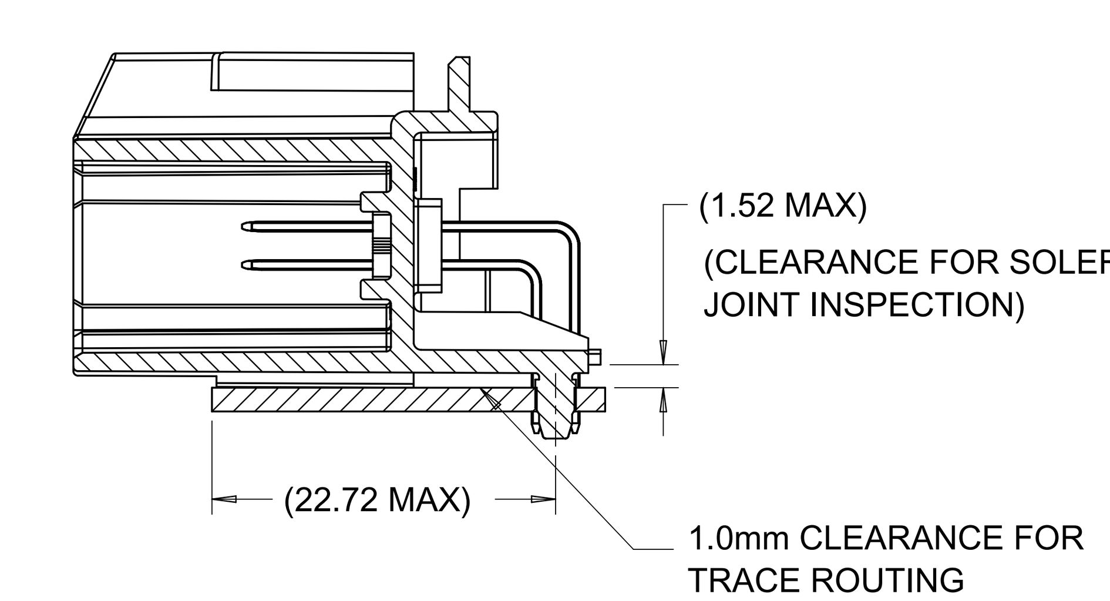
INSERT NECESSARY BAYS USING CHART ON SHEET 1



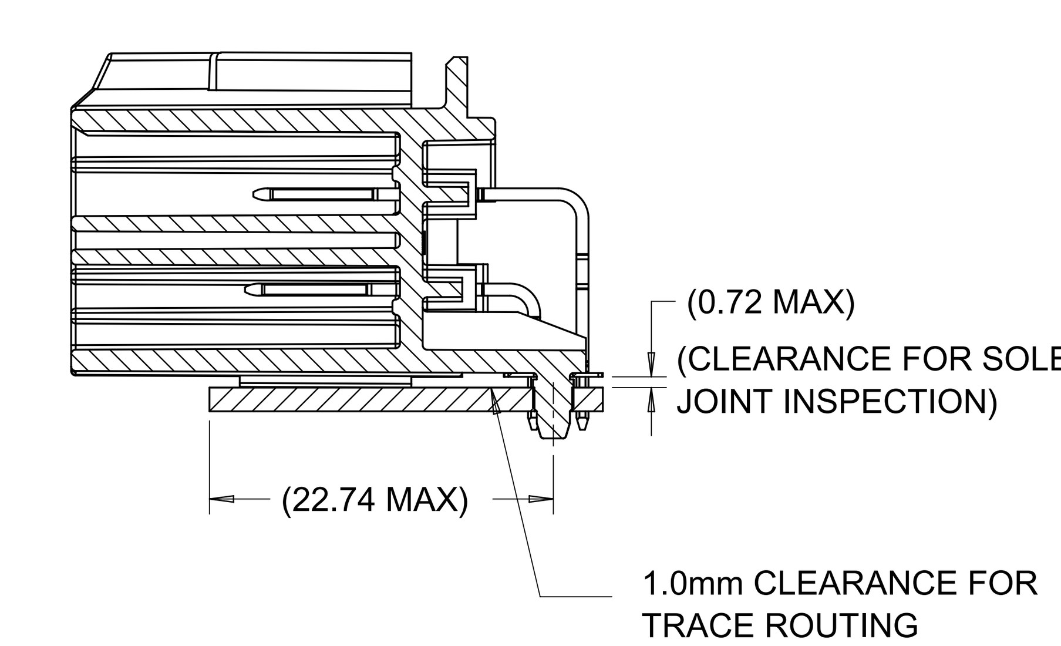
POST HOLE TABLE:

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

8-20CKT 0.64mm



10/14CKT HYRBID



FLUSH MOUNTING
HEADER-TO-PCB
SCALE 2:1

QUALITY SYMBOLS			GENERAL TOLERANCES (UNLESS SPECIFIED)			
= 0	EC NO: 614668	2019/03/28	ANGULAR TOL ± 1.0 °		DIMENSION UNITS: mm	SCALE: 5:1
= 0	DRWN: SHANDITHAVAL	2019/03/29	4 PLACES ±		DRWN BY: JFISCHER01	DATE: 2013/05/31
= 0	CHK'D: RBAUMAN	2019/03/29	3 PLACES ±		CHK'D BY	DATE
= 0	APPR: RBAUMAN		2 PLACES ±	0.13	APPR BY: RBAUMAN	DATE: 2013/06/04
= 0			1 PLACE ±	0.25	DRAWING SIZE: D	THIRD ANGLE PROJECTION
= 0			0 PLACES ±			
= 0	L8	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
= 0						

molex®

STAC64 3-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

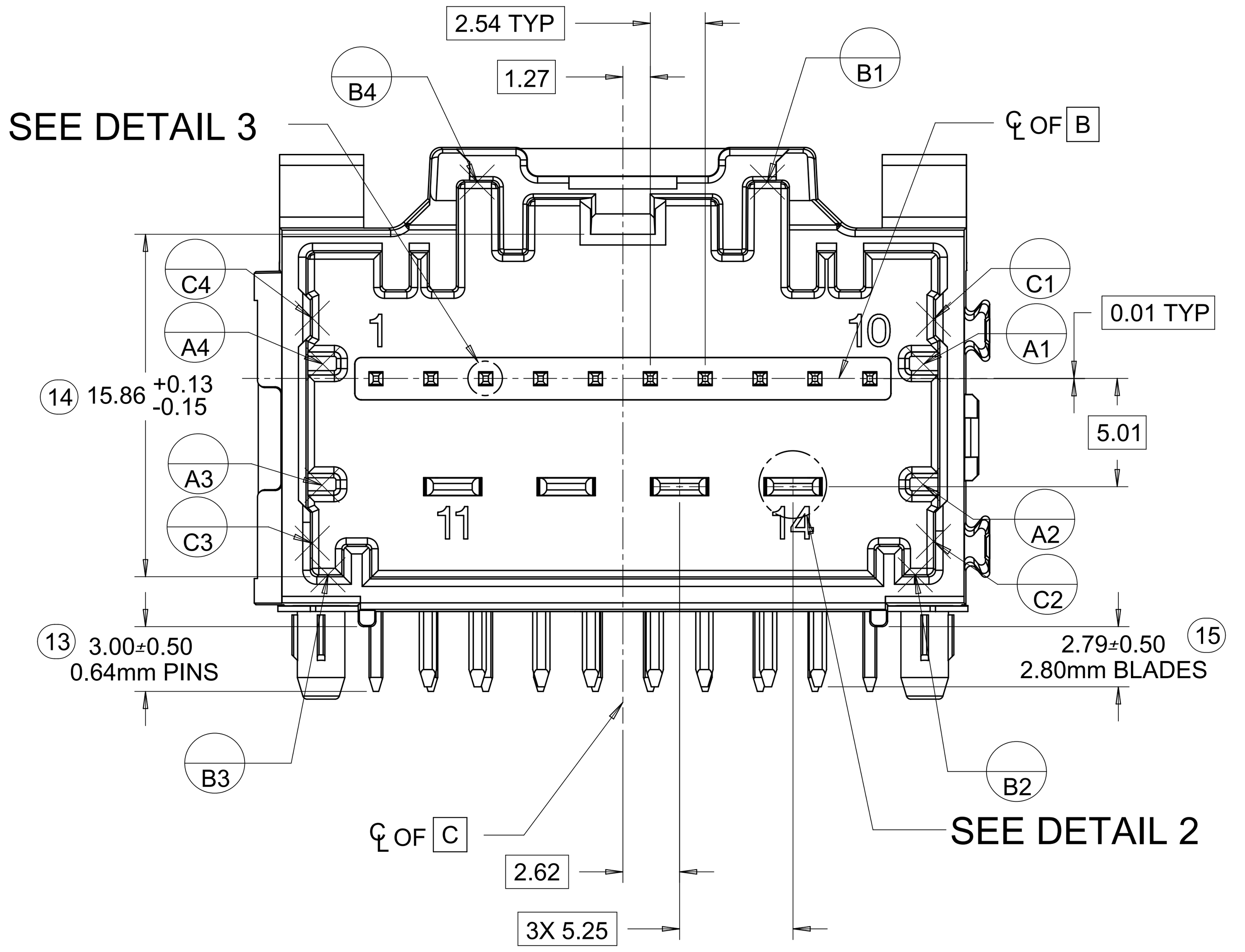
PRODUCT CUSTOMER DRAWING

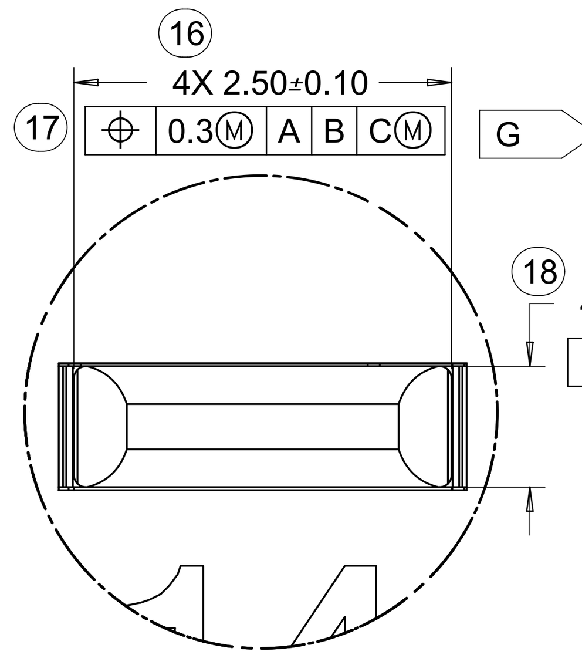
SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-300	PSD	001	2 OF 4

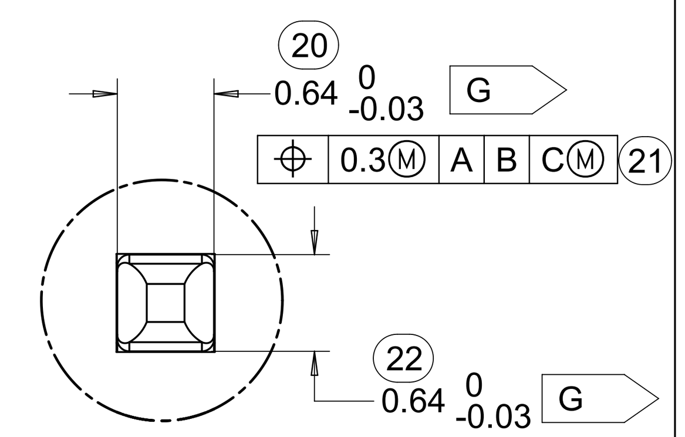
RELEASE STATUS	P1	RELEASE DATE	2019/03/29	21:17:43

14 CKT STAC HYBRID HEADER DETAILS

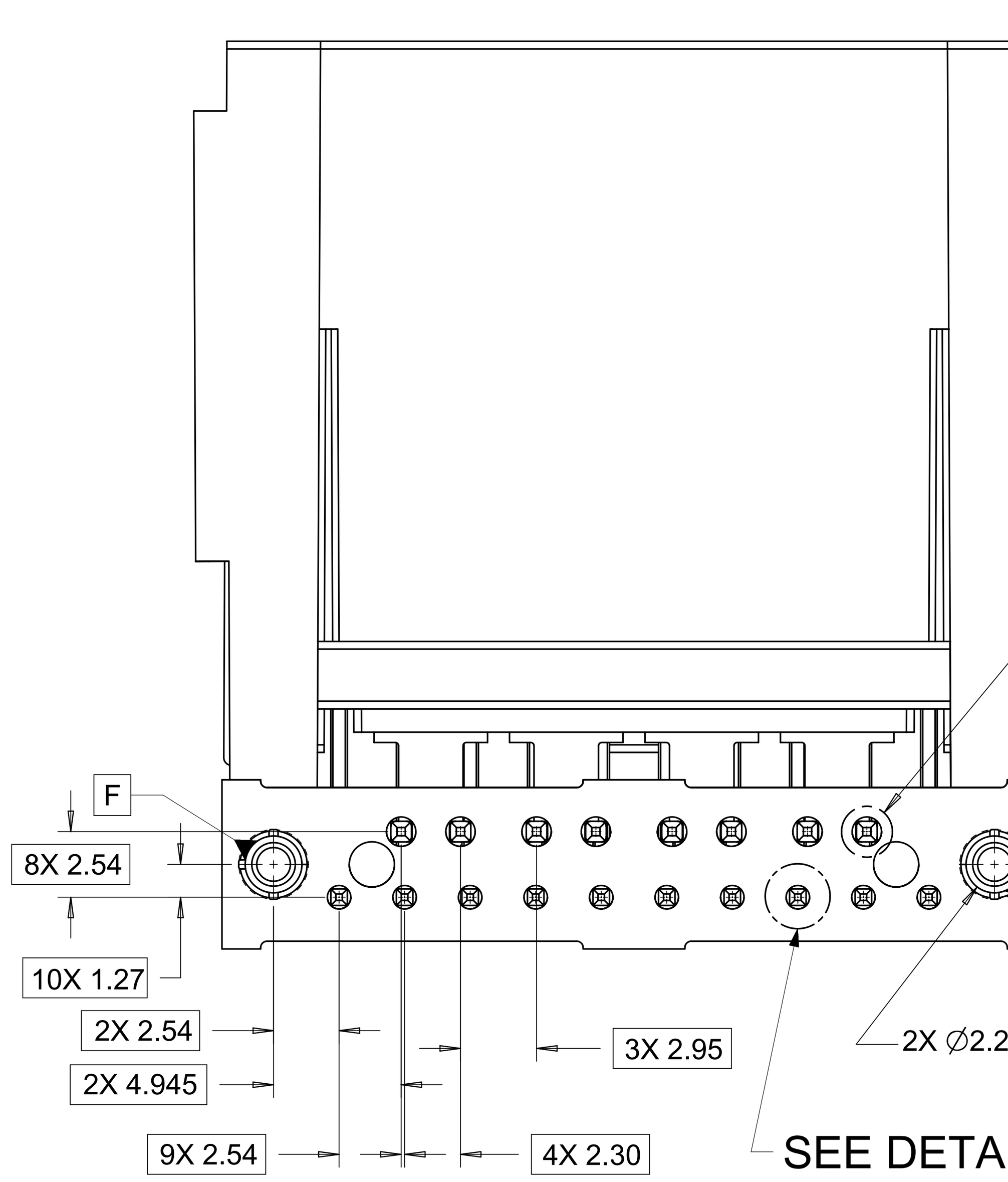


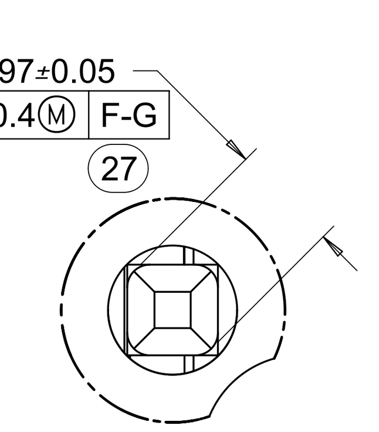


DETAIL 2
SCALE 20:1

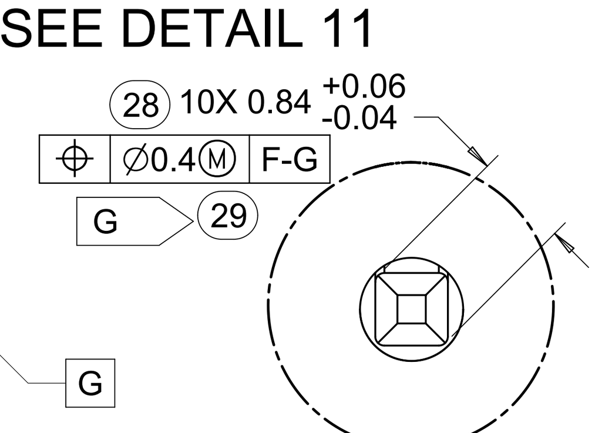


DETAIL 3
SCALE 20:1



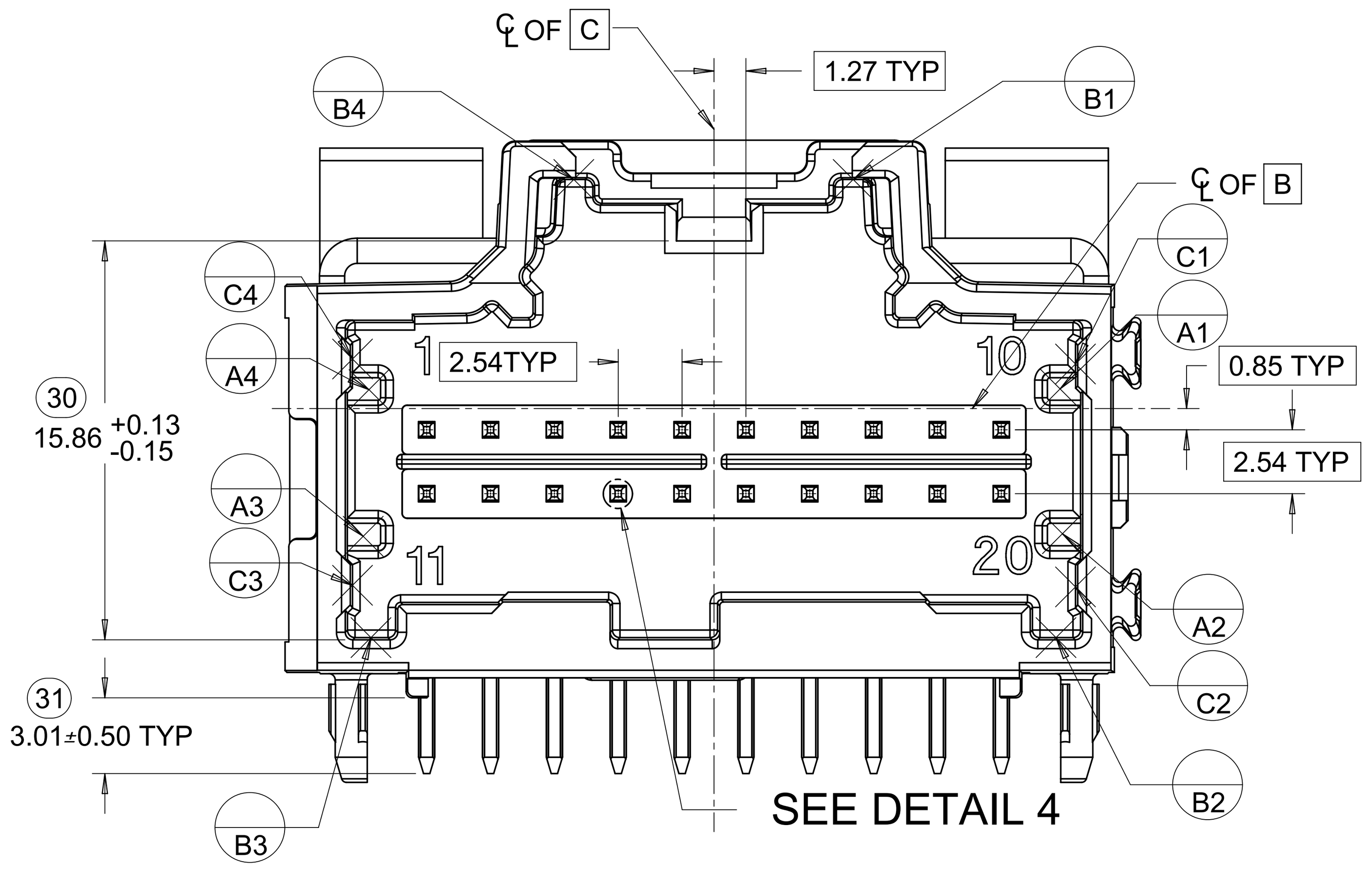


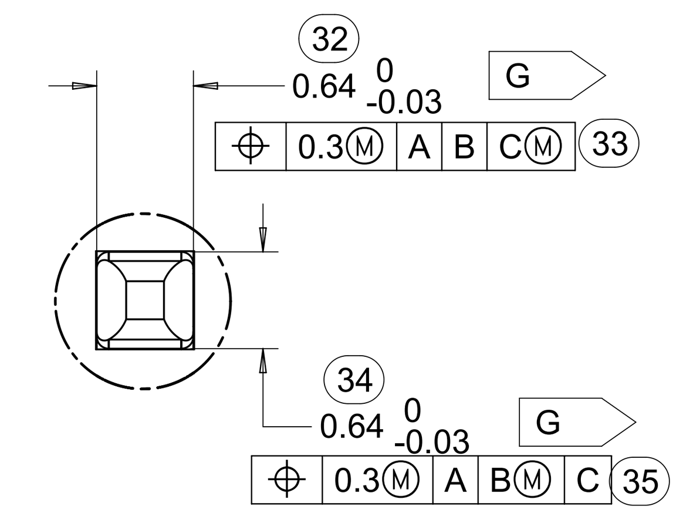
DETAIL 11
SCALE 15:1



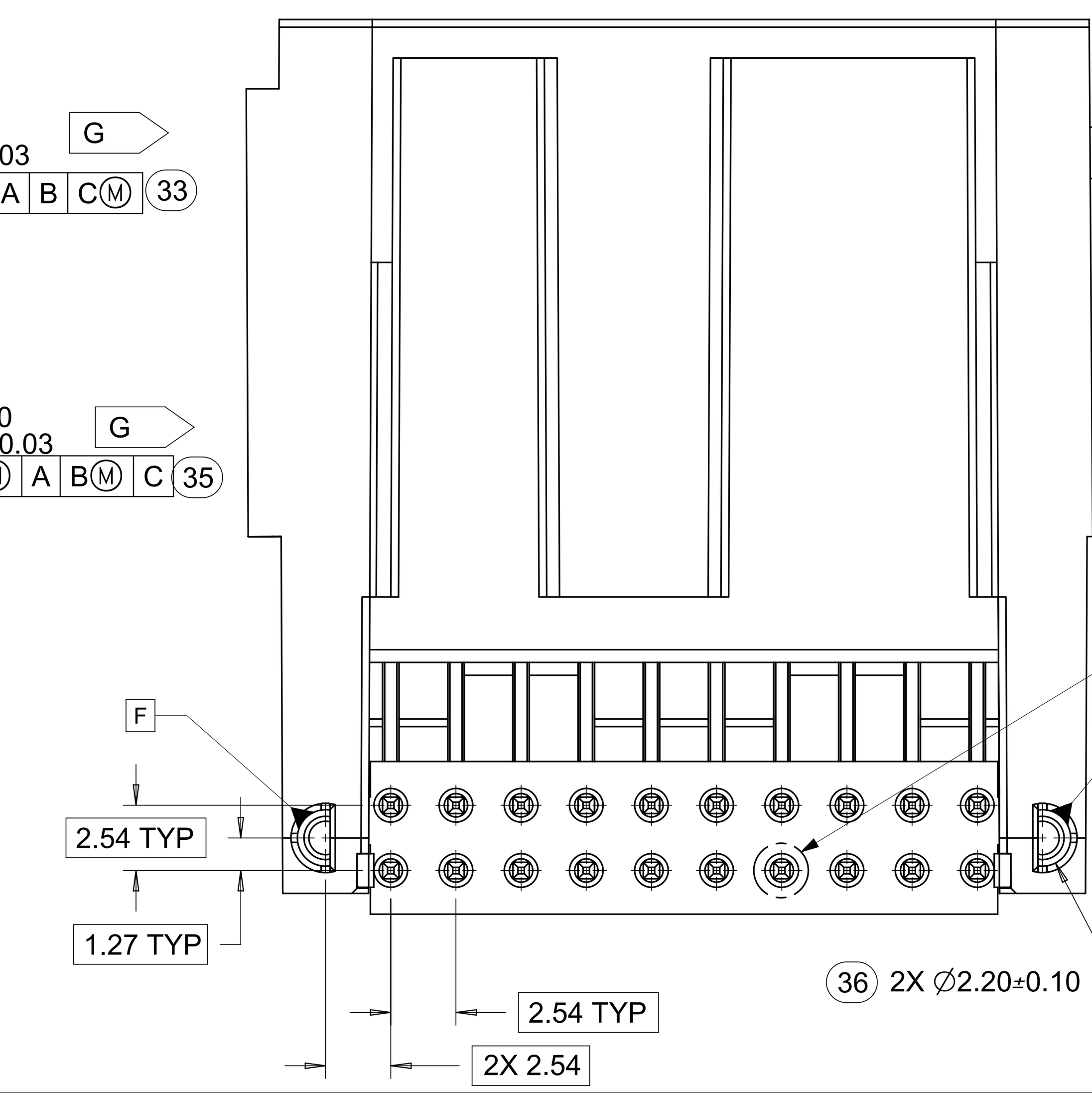
DETAIL 12
SCALE 15:1

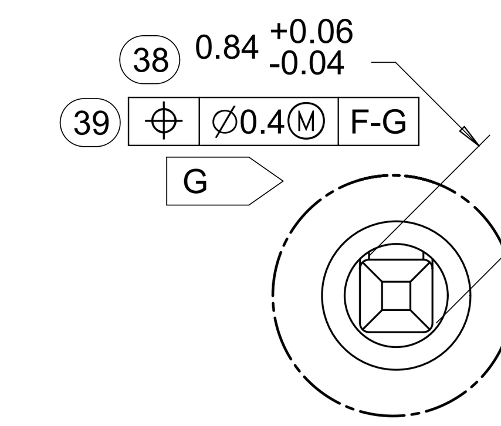
8-20CKT STAC64 HEADER DETAILS





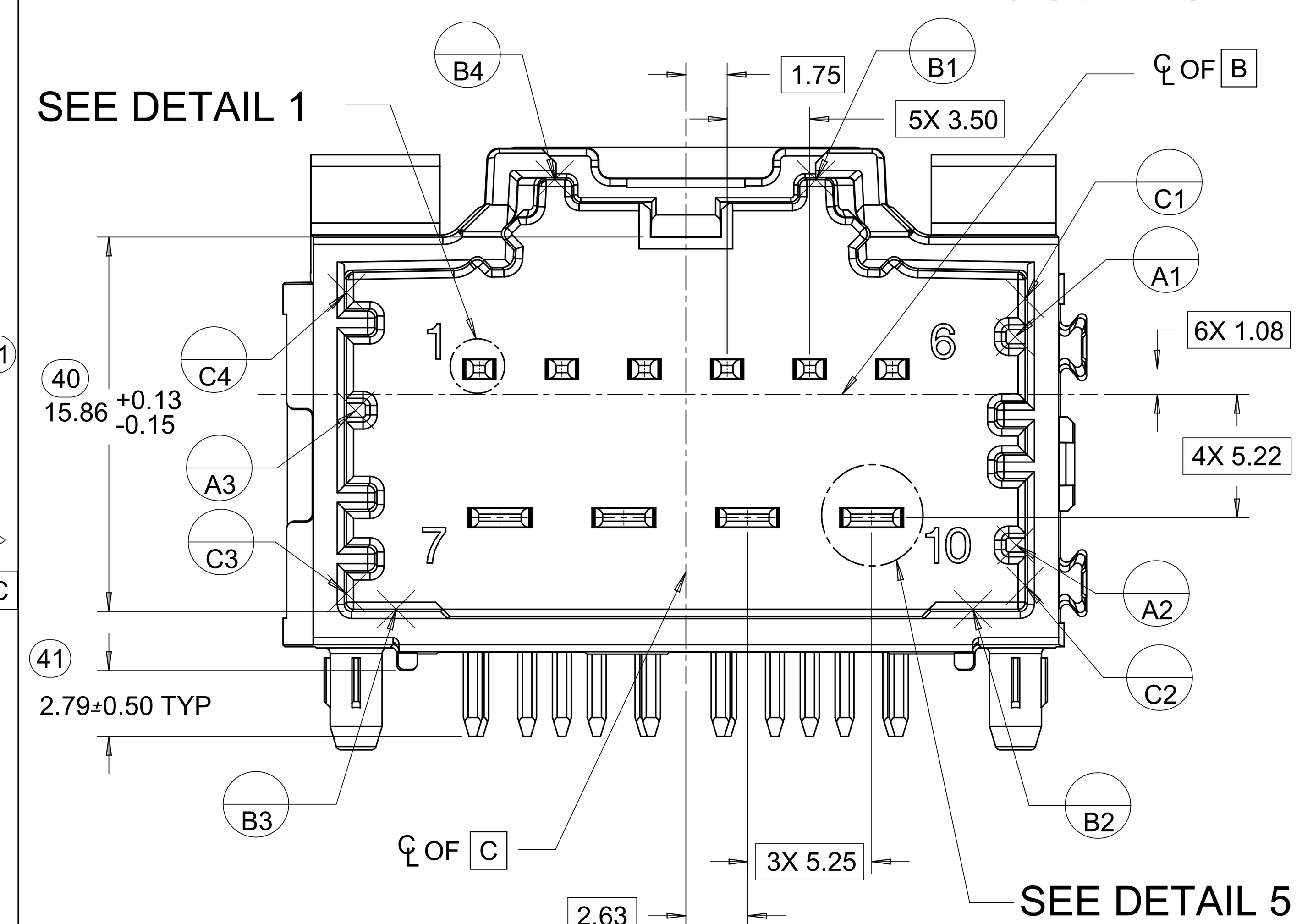
DETAIL 4
SCALE 20:1

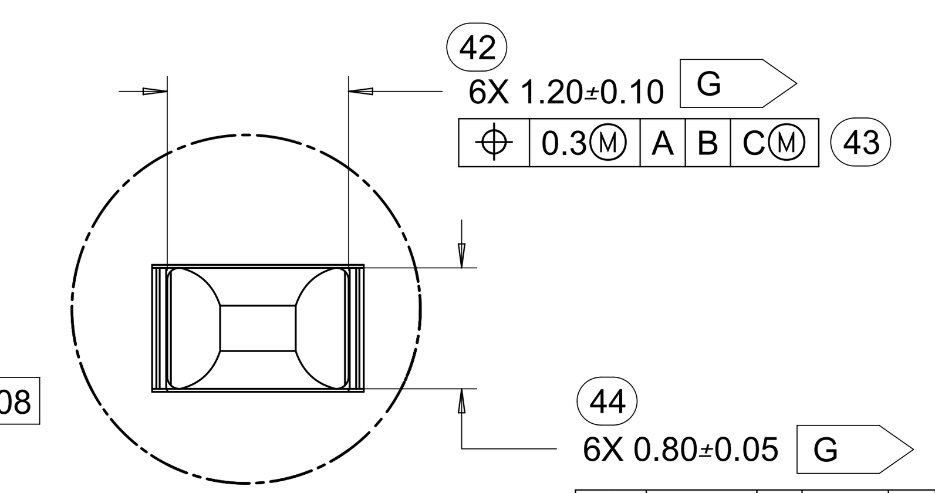




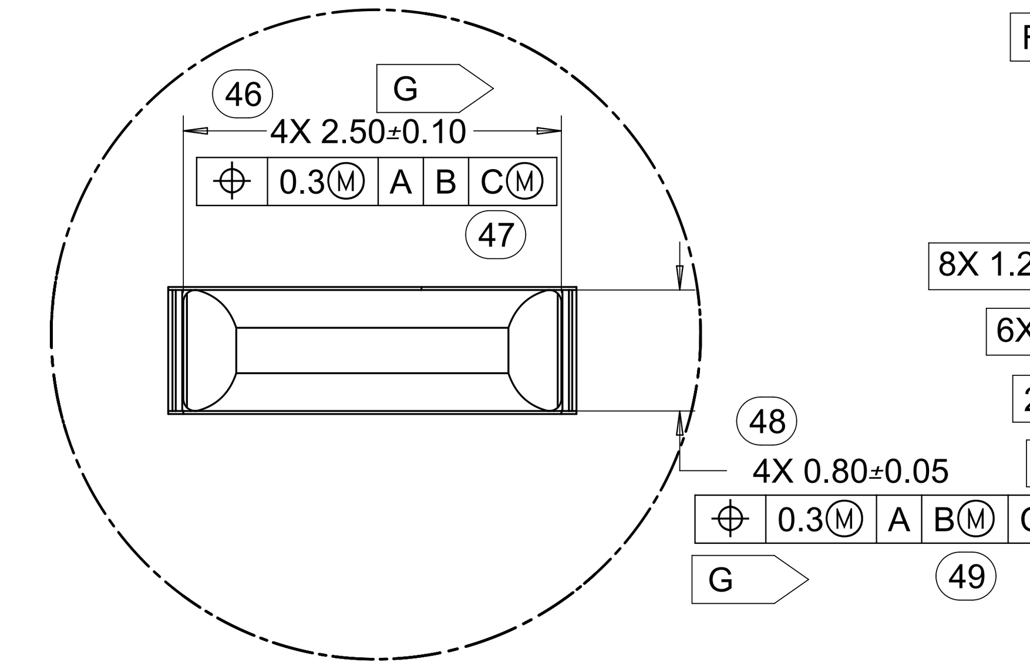
DETAIL 6
SCALE 15:1

10CKT STAC HYBRID HEADER DETAILS

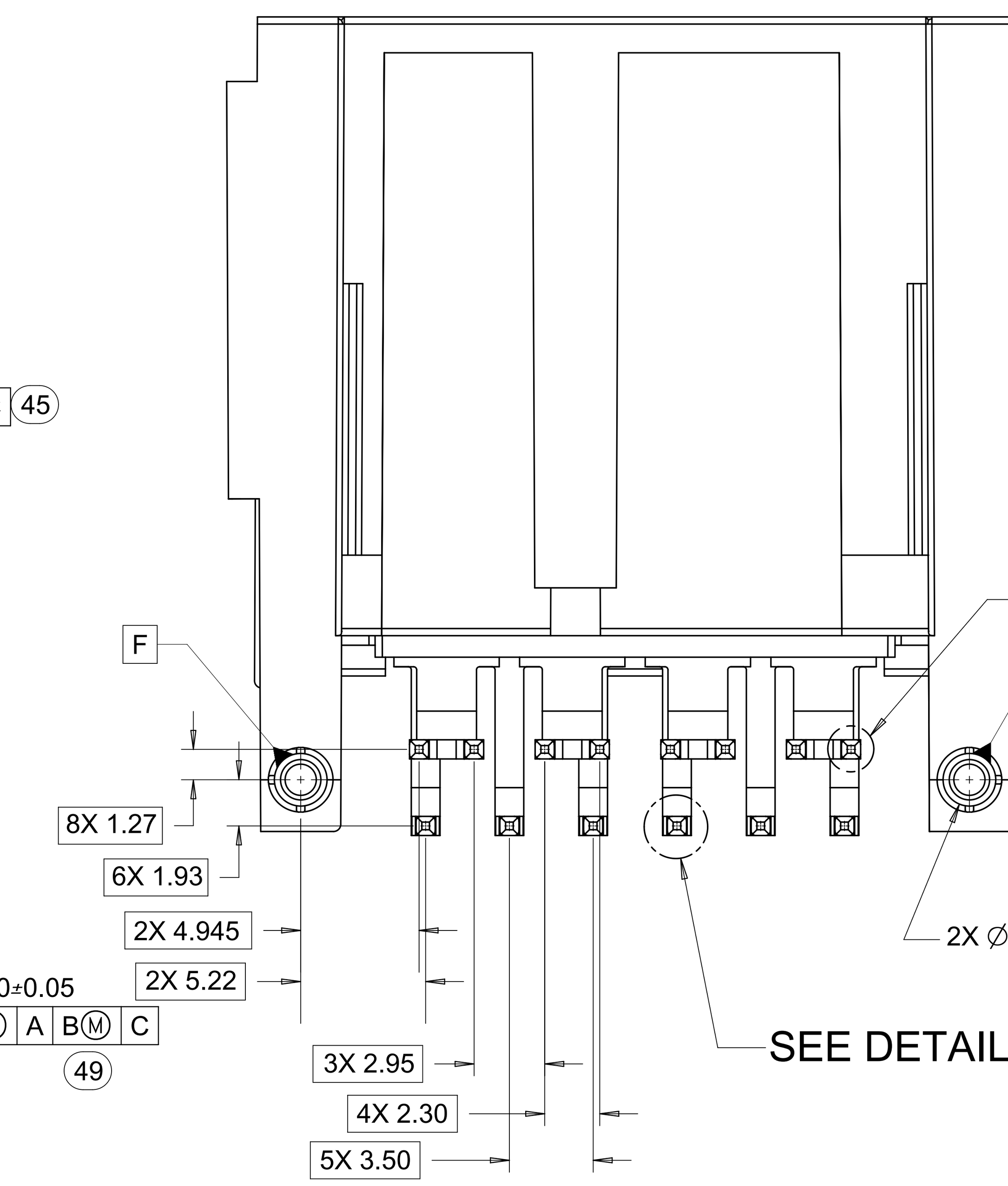


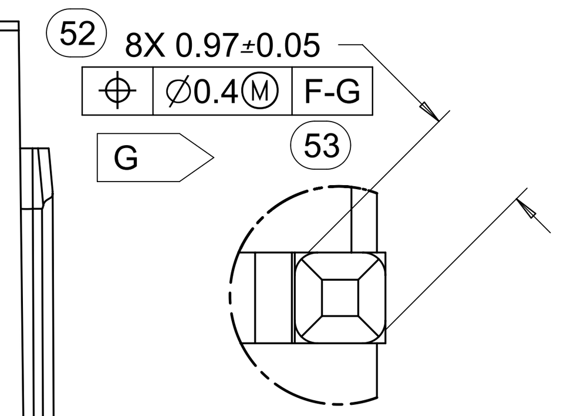


DETAIL 1
SCALE 20:1

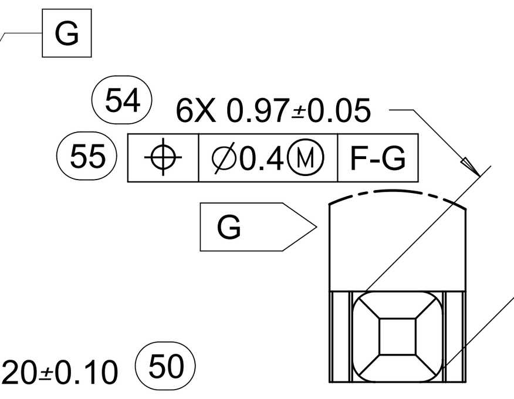


DETAIL 5
SCALE 20:1





DETAIL 7
SCALE 15:1



DETAIL 8
SCALE 15:1

RELEASE STATUS	P1	RELEASE DATE	2019/03/29 21:17:43

QUALITY SYMBOLS	
FA	= 0
FC	= 0
FP	= 0
▼	= 0
C	= 0
☒	= 0
■	= 0
C	= 0

EC NO:	614668
DRWN: SHANDITHAVAL	2019/03/28
CHK'D: RBAUMAN	2019/03/29
APPR: RBAUMAN	2019/03/29
REV	L8

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION UNITS: mm	SCALE: 4:1
DRWN BY: JFISCHER01	DATE: 2013/05/31
CHK'D BY:	DATE:
APPR BY: RBAUMAN	DATE: 2013/06/04
DRAWING SIZE: D	THIRD ANGLE PROJECTION

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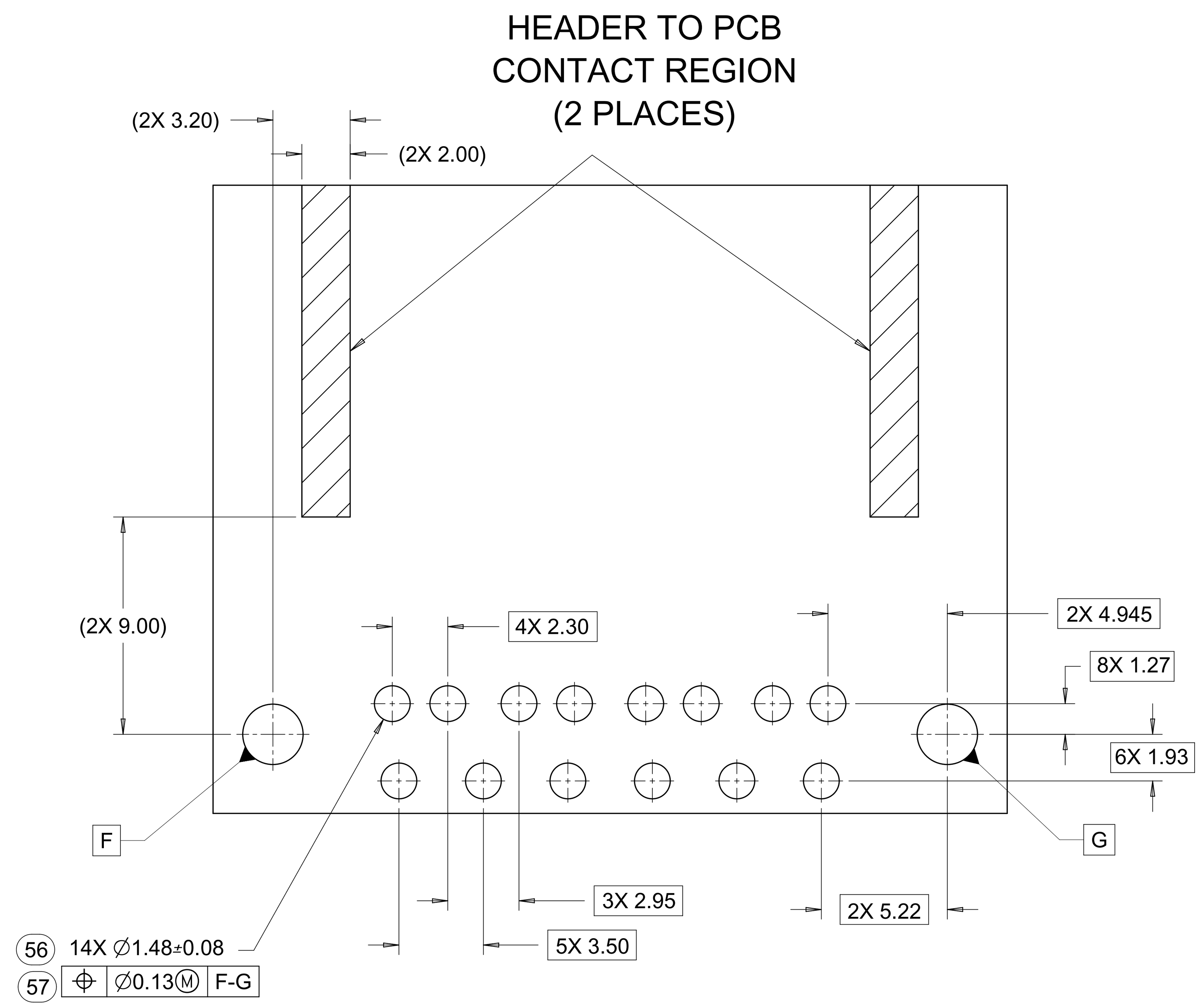
STAC64 3-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

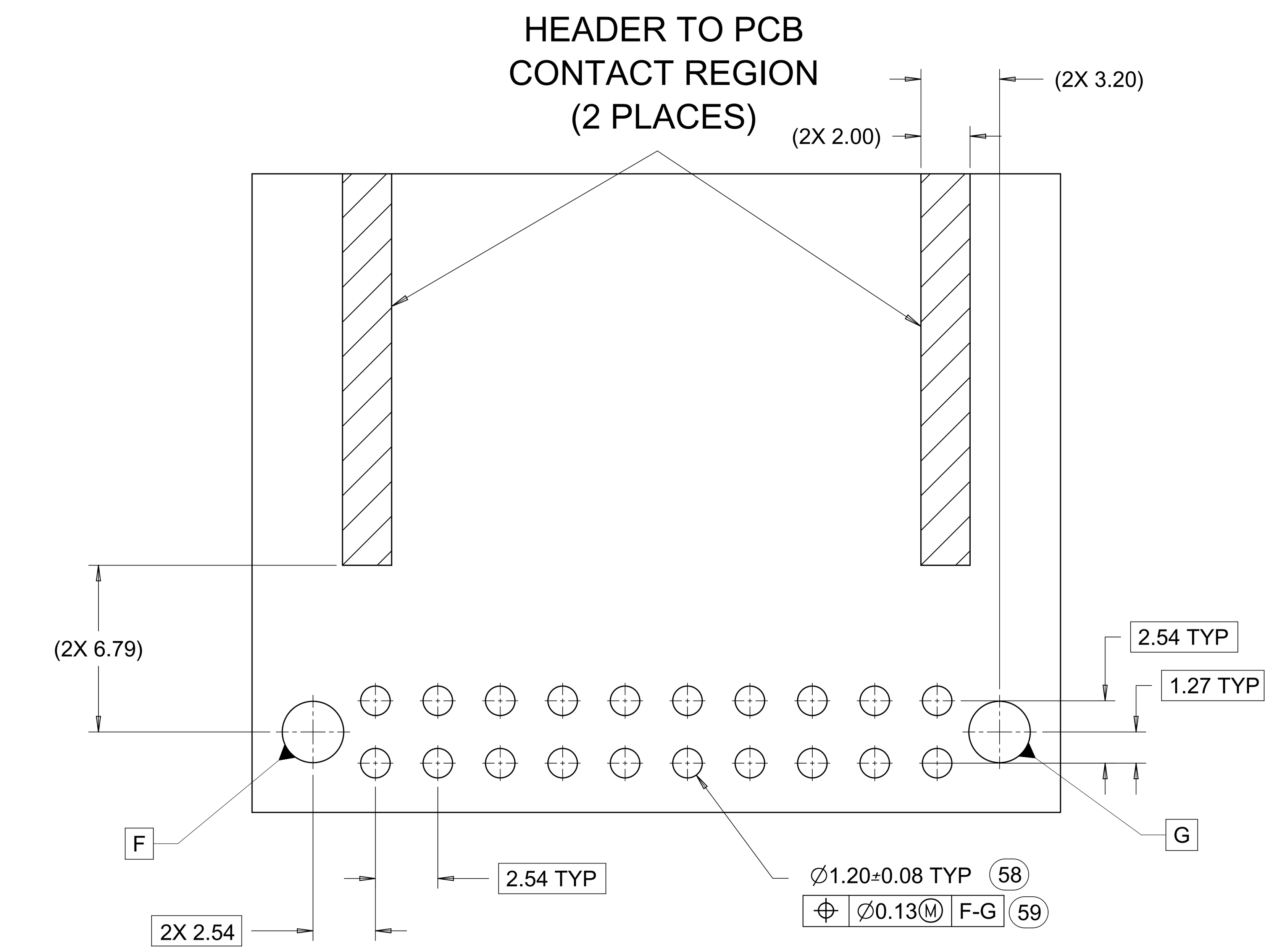
SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-300	PSD	001	3 OF 4

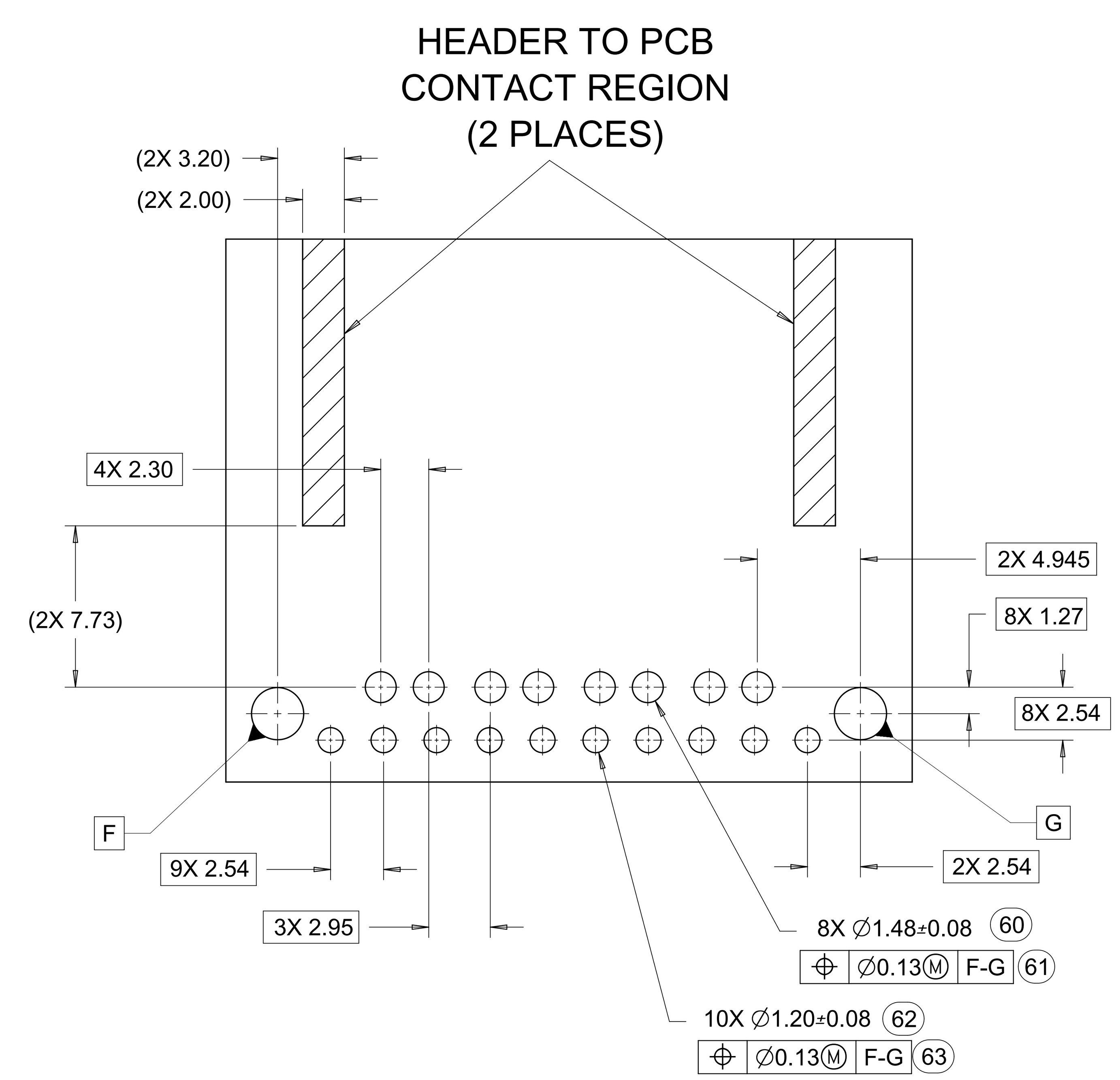
10 CKT HYBRID TEMPLATE
PCB LAYOUT



8-20CKT 0.64mm TEMPLATE
PCB LAYOUT



14 CKT HYBRID TEMPLATE
PCB LAYOUT



QUALITY SYMBOLS: FA = 0; FC = 0; FP = 0; ▼ = 0; C = 0; ☒ = 0; ■ = 0; C = 0

EC NO: 614668 2019/03/28
DRWN: SHANDITHAVAL 2019/03/29
CHK'D: RBAUMAN 2019/03/29
APPR: RBAUMAN
REV L8

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm	SCALE: 5:1
DRWN BY: JFISCHER01	DATE: 2013/05/31
CHK'D BY:	DATE:
APPR BY: RBAUMAN	DATE: 2013/06/04
DRAWING SIZE: D	THIRD ANGLE PROJECTION

molex®

STAC64 3-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

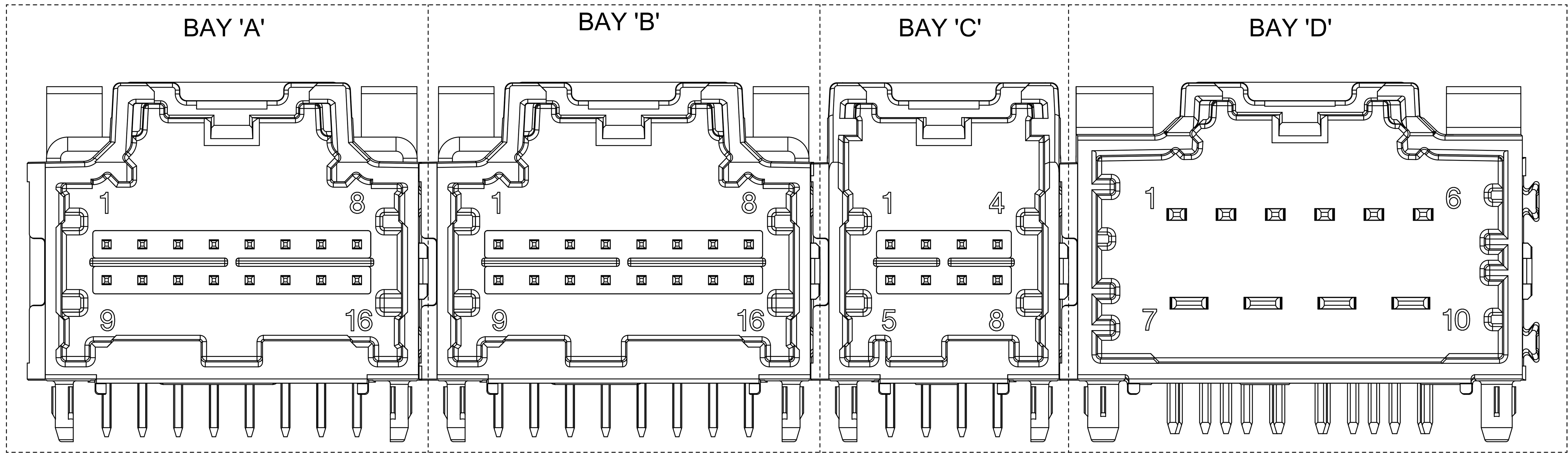
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-300	PSD	001	4 OF 4

RELEASE STATUS	P1	RELEASE DATE	2019/03/29	21:17:43

4 BAY STAC64 RIGHT ANGLE PAP HEADER ASSEMBLY
(P/N: 34997-4000 SHOWN)



NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

a. CONNECTOR HEADER MUST BE VALIDATED TO THE FOLLOWING FUNCTIONAL REQUIREMENTS:
PRODUCTS SPECIFICATION:
8-20 CKT 0.64 PRODUCT SPEC: PS-34729-020/PS-31408-100
10/14CKT 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)

2. DESIGN: MATERIALS

a. SHROUD (PLASTIC HOUSING)
RESIN - SPS 30%GF
b. 0.64mm PINS:
BASE MATERIAL: C26000
PLATING TYPE: AS NOTED
1.50mm/2.80mm BLADES:
BASE MATERIAL: C19400
PLATING TYPE: AS NOTED

3. PLATING REQUIRMENTS:

a. UNDERPLATING - OVERALL NICKEL
b. OVERPLATING - OVERALL TIN

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

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

QUALITY SYMBOLS	
FA	= 0
FC	= 0
FP	= 0
(filled triangle)	= 0
C	= 0
(crossed box)	= 0
(filled box)	= 0
C	= 0

EC NO: 612618 2019/02/22
DRWN: SHANDITHAVAL 2019/02/23
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN
REV: C8

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	SCALE
mm	4:1
DRWN BY: JFISCHER01	DATE: 2013/05/31
CHK'D BY	DATE
APPR BY: RBAUMAN	DATE: 2013/06/04
DRAWING SIZE: A1	THIRD ANGLE PROJECTION

molex

STAC64 4-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-400	PSD	001	1 OF 5

RELEASE STATUS	P1	RELEASE DATE	2019/02/23 23:33:07

DIMENSIONAL CHART FOR MULTIBAY CONFIGURATION:

4 BAY PART NUMBER (TUBE PKG)	4 BAY PART NUMBER (TRAY PKG)	BAY A			BAY B			BAY C			BAY D			DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'
		CKT	TYPE	POL	CKT	TYPE	POL	CKT	TYPE	POL	CKT	TYPE	POL						
TBD	34997-4000	16	0.64mm	B	16	0.64mm	A	8	0.64mm	A	10	HYBRID	A	107.34	104.87	22.86	22.86	12.70	27.94
TBD	34997-4001	8	0.64mm	A	20	0.64mm	C	20	0.64mm	B	10	HYBRID	A	117.50	115.03	12.70	27.94	27.94	27.94
TBD	34997-4002	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	20	0.64mm	D	132.74	130.27	27.94	27.94	27.94	27.94
TBD	34997-4003	20	0.64mm	A	20	0.64mm	B	20	0.64mm	C	10	HYBRID	A	132.74	130.27	27.94	27.94	27.94	27.94
34997-9004	34997-4004	12	0.64mm	A	12	0.64mm	B	16	0.64mm	A	16	0.64mm	B	102.26	99.79	17.78	17.78	22.86	22.86

QUALITY SYMBOLS

= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0

EC NO: 612618
DRWN: SHANDITHAVAL 2019/02/22
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23
REV: C8

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm
SCALE: 1:1
DRWN BY: JFISCHER01 DATE: 2013/05/31
CHK'D BY: DATE:
APPR BY: RBAUMAN DATE: 2013/06/04
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

molex®

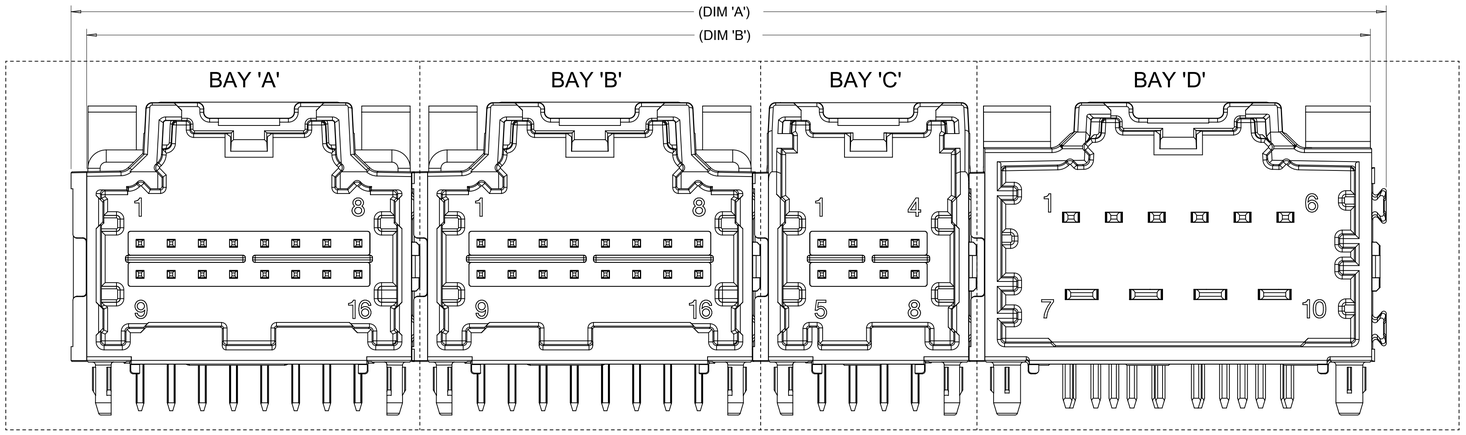
STAC64 4-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

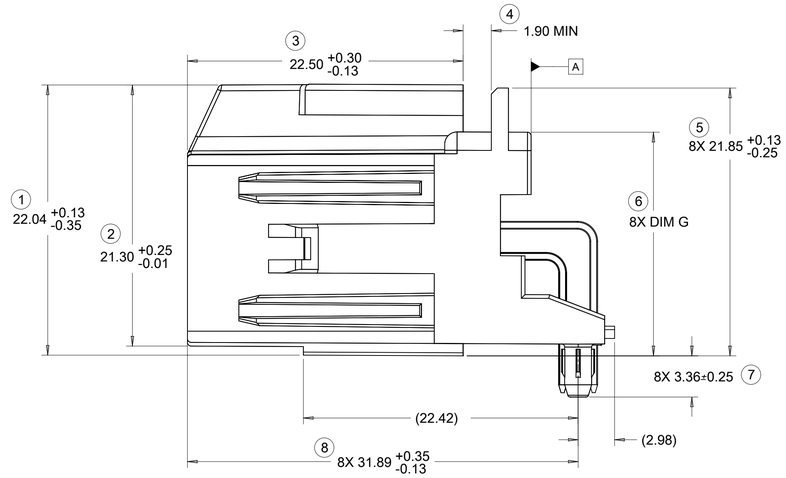
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-400	PSD	001	2 OF 5

RELEASE STATUS	P1	RELEASE DATE	2019/02/23 23:33:07





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

SCALE 4:1

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

QUALITY SYMBOLS	
FA	= 0
FF	= 0
FP	= 0
	= 0
C	= 0
	= 0
	= 0
G	= 0

EC NO: 612618
DRWN: SHANDITHAVAL 2019/02/22
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23
REV: C8

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0	°
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	SCALE
mm	4:1
DRWN BY	DATE
JFISCHER01	2013/05/31
CHK'D BY	DATE
APPR BY	DATE
RBAUMAN	2013/06/04
DRAWING SIZE	THIRD ANGLE PROJECTION
A1	

molex®

STAC64 4-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

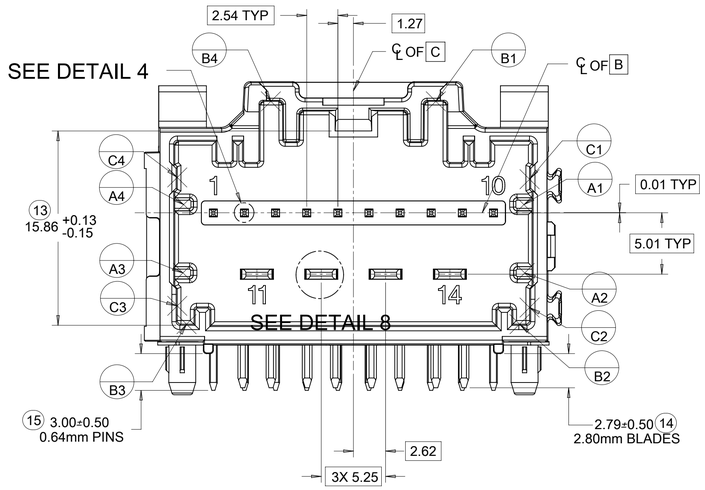
PRODUCT CUSTOMER DRAWING

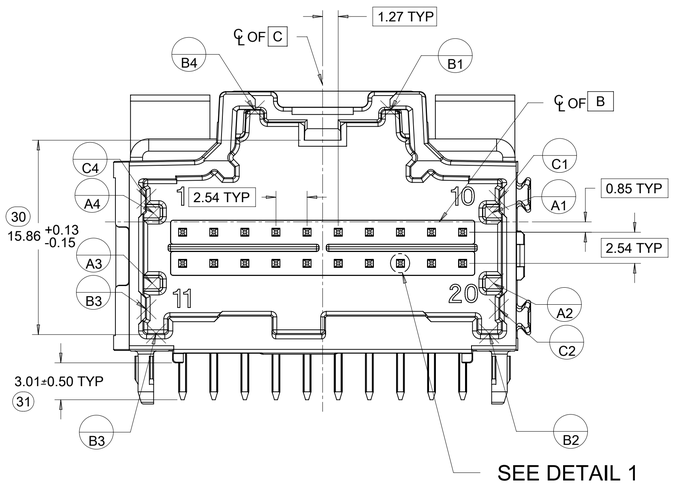
SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

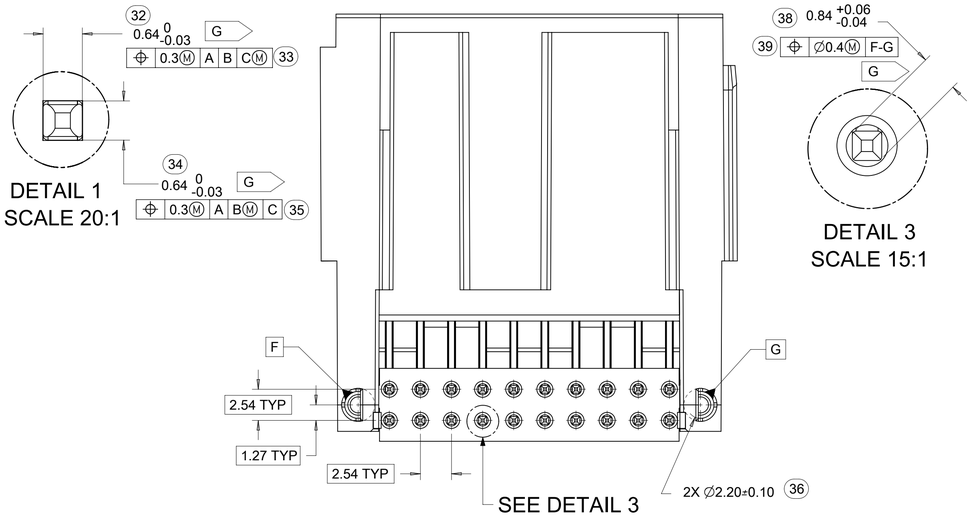
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-400	PSD	001	3 OF 5

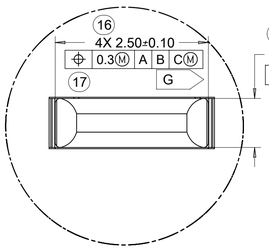
RELEASE STATUS	P1	RELEASE DATE	2019/02/23 23:33:07

14 CKT STAC HYBRID HEADER DETAILS

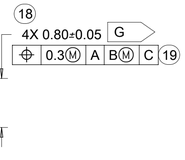


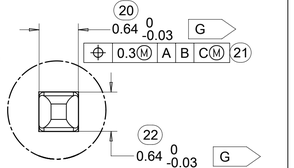




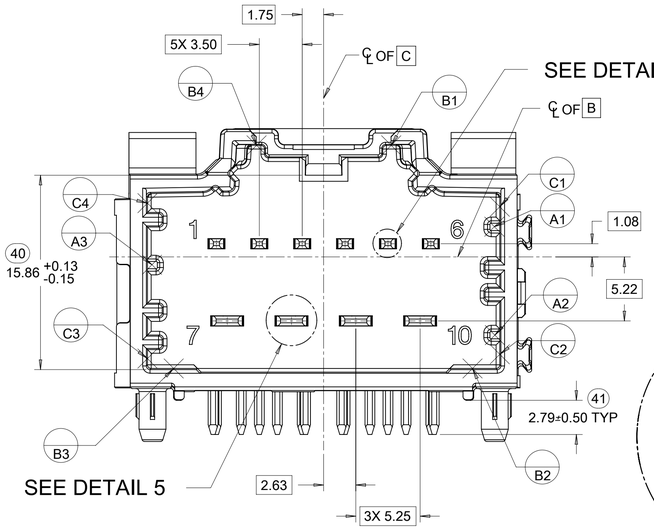


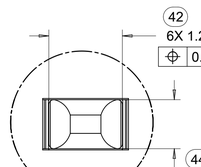
DETAIL 8
SCALE 20:1



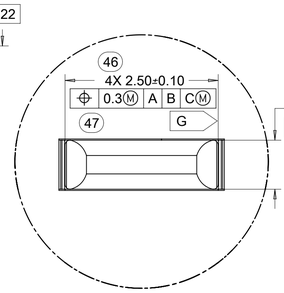


DETAIL 4
SCALE 20:1

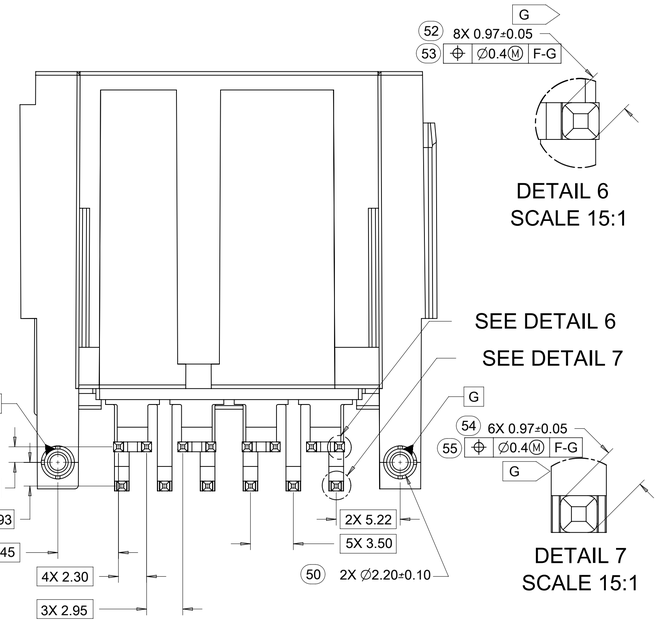


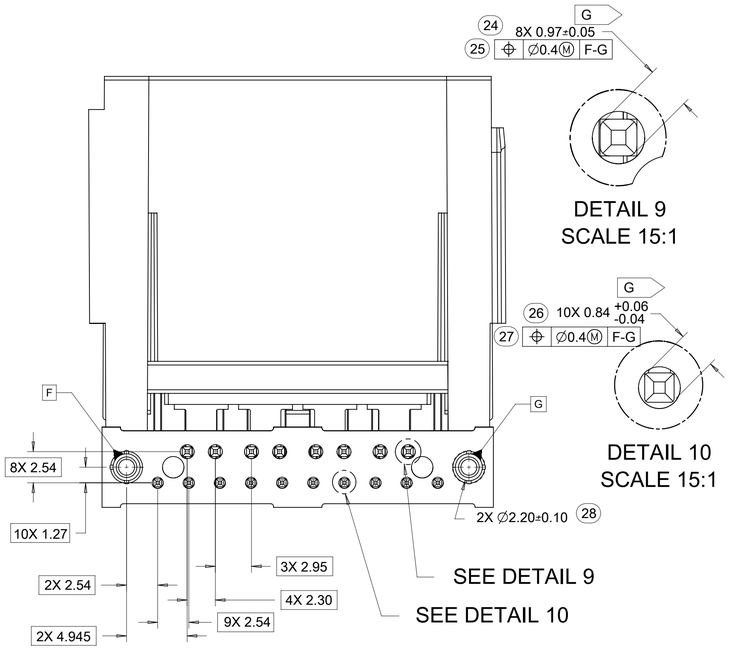


DETAIL 2
SCALE 20:1



DETAIL 5
SCALE 20:1





QUALITY SYMBOLS	
A	= 0
C	= 0
P	= 0
▼	= 0
▽	= 0
☒	= 0
■	= 0
▽	= 0

REV		
C8	2019/02/22	
	2019/02/23	
	2019/02/23	

EC NO: 612618
DRWN: SHANDITHAVAL
CHK'D: RBAUMAN
APPR: RBAUMAN

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	mm
SCALE	4:1
DRWN BY	JFISCHER01
DATE	2013/05/31
CHK'D BY	
DATE	
APPR BY	RBAUMAN
DATE	2013/06/04
DRAWING SIZE	A1
	THIRD ANGLE PROJECTION

molex®

STAC64 4-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

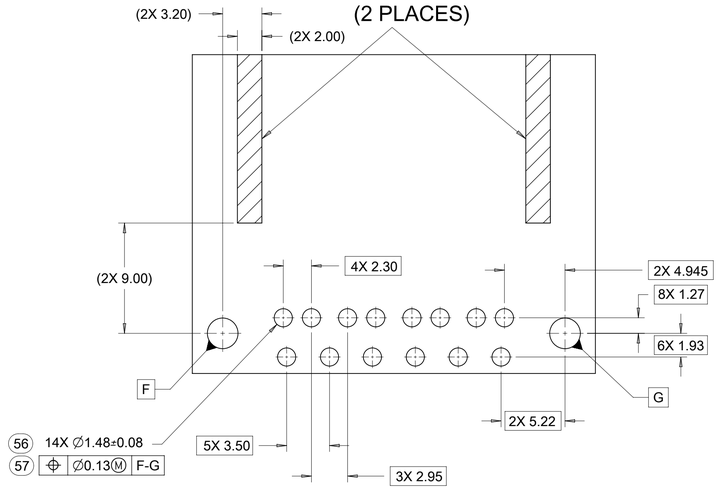
SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-400	PSD	001	4 OF 5

RELEASE STATUS	P1	RELEASE DATE	2019/02/23 23:33:07

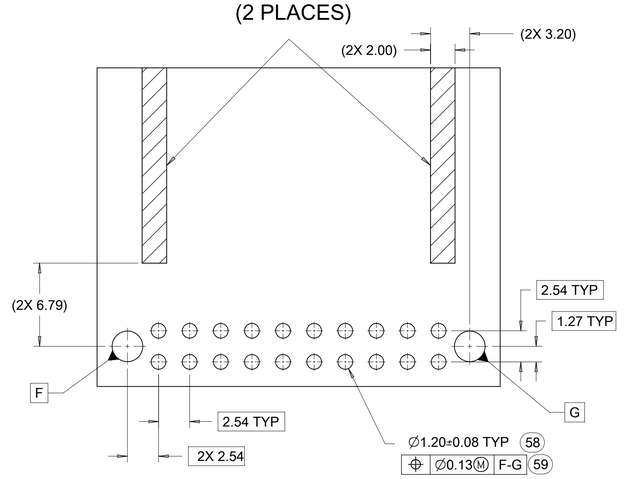
10 CKT HYBRID TEMPLATE
PCB LAYOUT

HEADER TO PCB
CONTACT REGION
(2 PLACES)



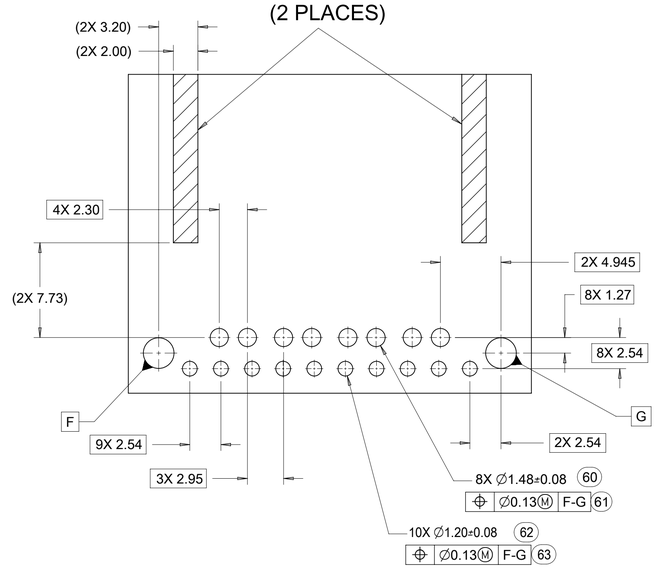
8-20CKT 0.64mm TEMPLATE
PCB LAYOUT

HEADER TO PCB
CONTACT REGION
(2 PLACES)



14 CKT HYBRID TEMPLATE
PCB LAYOUT

HEADER TO PCB
CONTACT REGION
(2 PLACES)



QUALITY SYMBOLS	
▽A	= 0
▽E	= 0
▽D	= 0
▼	= 0
▽C	= 0
☒	= 0
■	= 0
▽B	= 0

EC NO: 612618
DRWN: SHANDITHAVAL 2019/02/22
CHK'D: RBAUMAN 2019/02/23
APPR: RBAUMAN 2019/02/23

REV: C8

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0	°
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm
SCALE: 4:1
DRWN BY: JFISCHER01 DATE: 2013/05/31
CHK'D BY: DATE:
APPR BY: RBAUMAN DATE: 2013/06/04
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

molex®

STAC64 4-BAY PAP R/A
LONG PIN HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34997	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34997-400	PSD	001	5 OF 5

RELEASE STATUS	P1	RELEASE DATE	2019/02/23 23:33:07