

产品编号 : 348978161
Product Description : Mini50 Unsealed Header, Right-Angle, SMT, Dual Row, 16 Circuits, Tin (Sn) Plating, Polarization Option B, Gray, Tape and Reel
系列号 : 34897
状态 : Active
Product Category : PCB Headers and Receptacles
Packaging Alternative : 0348979161 (Tube)



文件和资源

图纸
[图纸 348978161_sd.pdf](#)
[包装设计图 PK-31301-786-001.pdf](#)

3D 模型和设计文件
[3D模型 348978161_stp.zip](#)

规格
[应用规格 AS-34791-020-CH-001.pdf](#)
[应用规格 AS-34791-020-001.pdf](#)
[产品规格 PS-34791-020-001.pdf](#)
[测试摘要 347910020-TS-000.pdf](#)

产物环境合规

合规

GADSL/IMDS	Compliant with Exemption 44; 33
China RoHS	
EU ELV	Compliant per 2000/53/EC
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)3788-DC (14 Jun 2023)
EU RoHS	Compliant per EU 2015/863

[多部分产品合规性声明](#)

- Eu RoHS
- REACH SVHC
- Low-Halogen

多部分行业合规性文件

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

欧盟 RoHS 合格证书

产品详情

常规

状态	活动
类别	PCB Headers and Receptacles
系列	34897
说明	Mini50 Unsealed Header, Right-Angle, SMT, Dual Row, 16 Circuits, Tin (Sn) Plating, Polarization Option B, Gray, Tape and Reel
应用	Automotive, Power, Signal, Wire-to-Board
元件类型	PCB Header
产品系列	Mini50 Connection Systems
产品名称	Mini50
UPC	887191459288

电气

每触点最大电流	4.0A (for reference only)
电压 - 最大	14V (typical operating)

物理

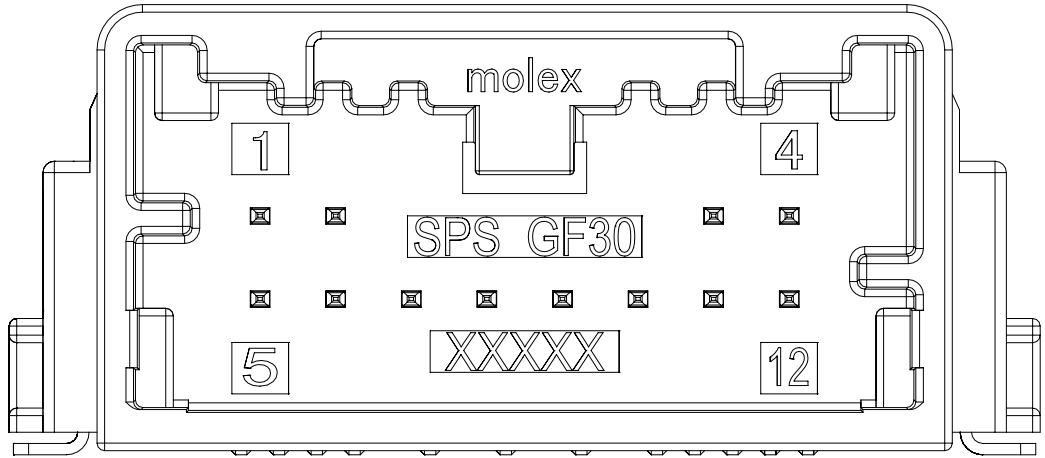
断开	否
回路数（已载入）	16
电路数（最多）	16
颜色-树脂	灰色
先接后断	否

符合灼热丝规范	否
可配插产品指南	否
插接极性	是
锁定插接部位	是
材料 - 金属	Brass
材料 - 接合部位电镀	Tin
材料 - 终端电镀	Tin
材料 - 树脂	SPS
净重	2.700/g
行数	2
方向	Right Angle
包装形式	Embossed Tape on Reel
PCB 保持力	是
间距 - 插配接口	2.00mm
有极性的插配件	是
PCB 极性	是
运行温度范围	-40° to +100° C
终端界面类型	Surface Mount

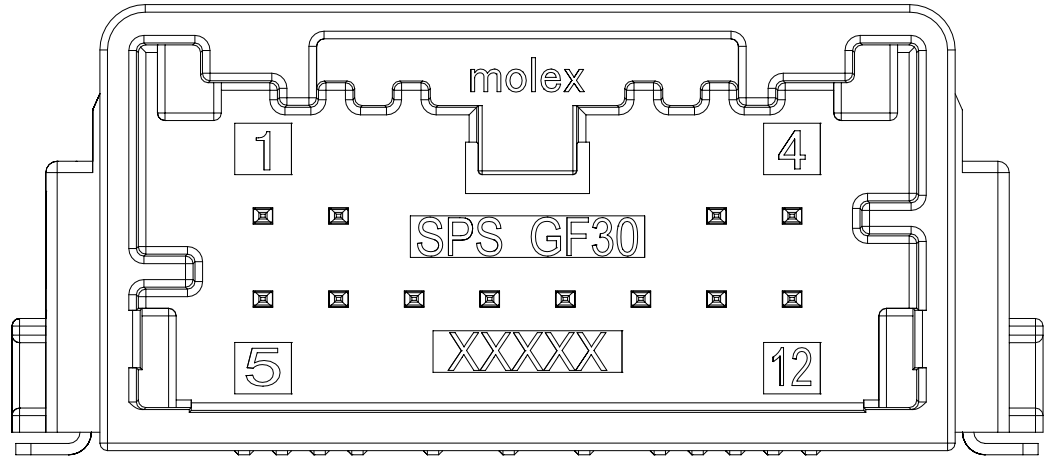
可配插/可连接使用的产品

可配插部件

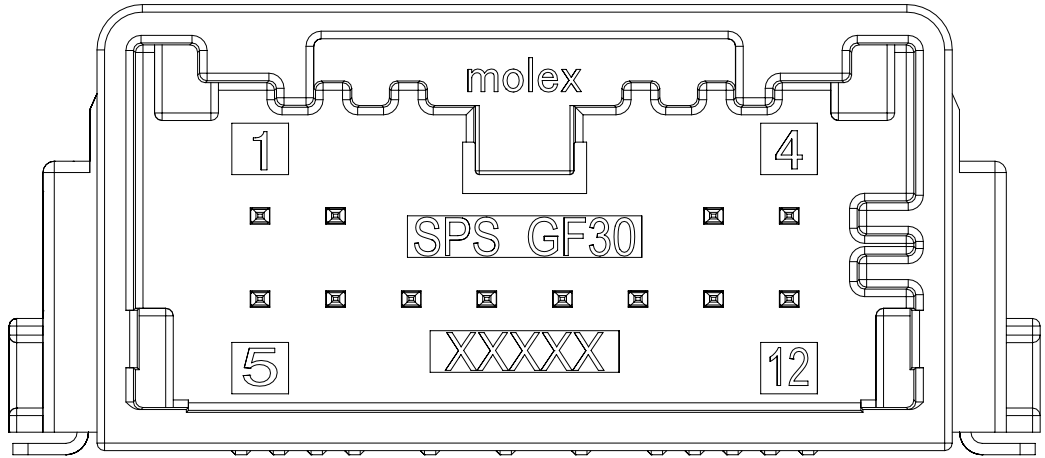
描述	产品编号
Mini50 Unsealed Dual Row Receptacles	<u>206523</u>
Mini50 Unsealed Dual Row Receptacle Housings	<u>34824</u>



12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION A

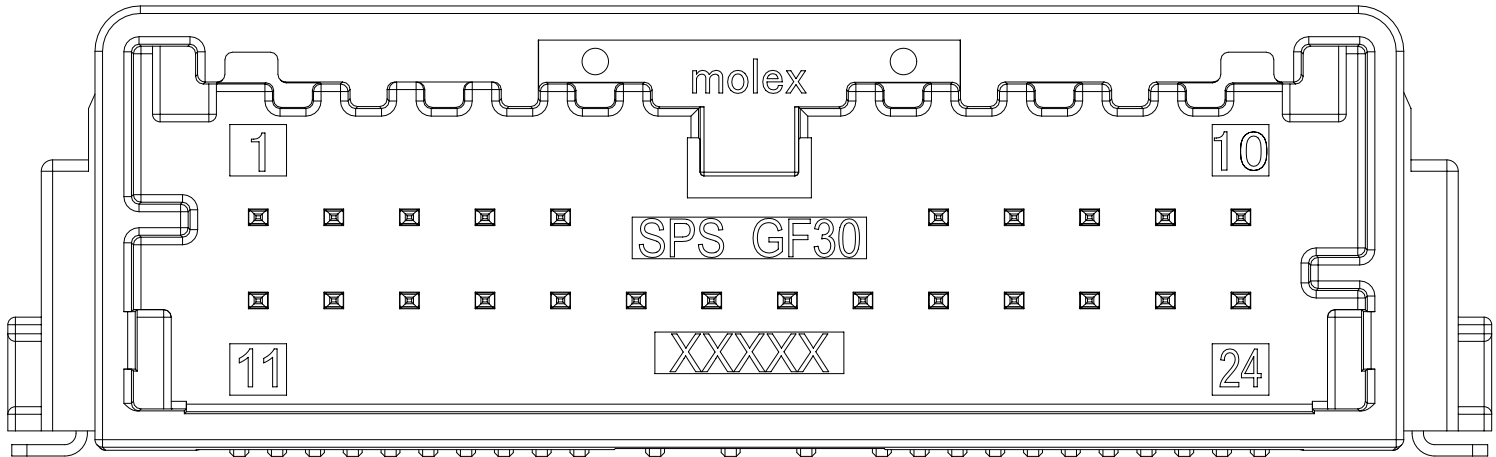


12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION B

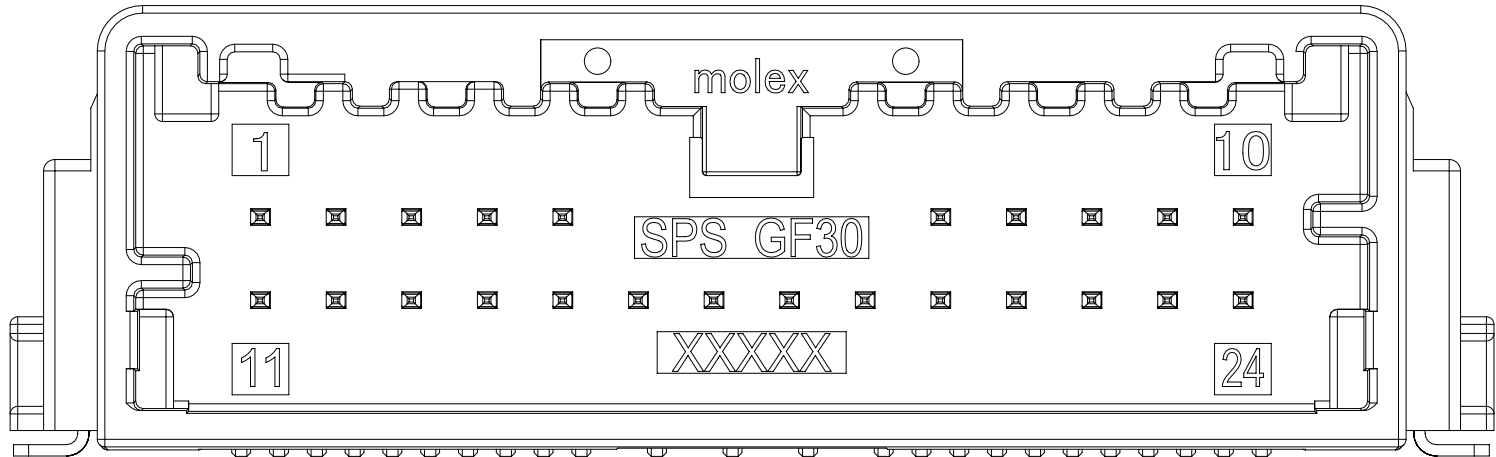


12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION C

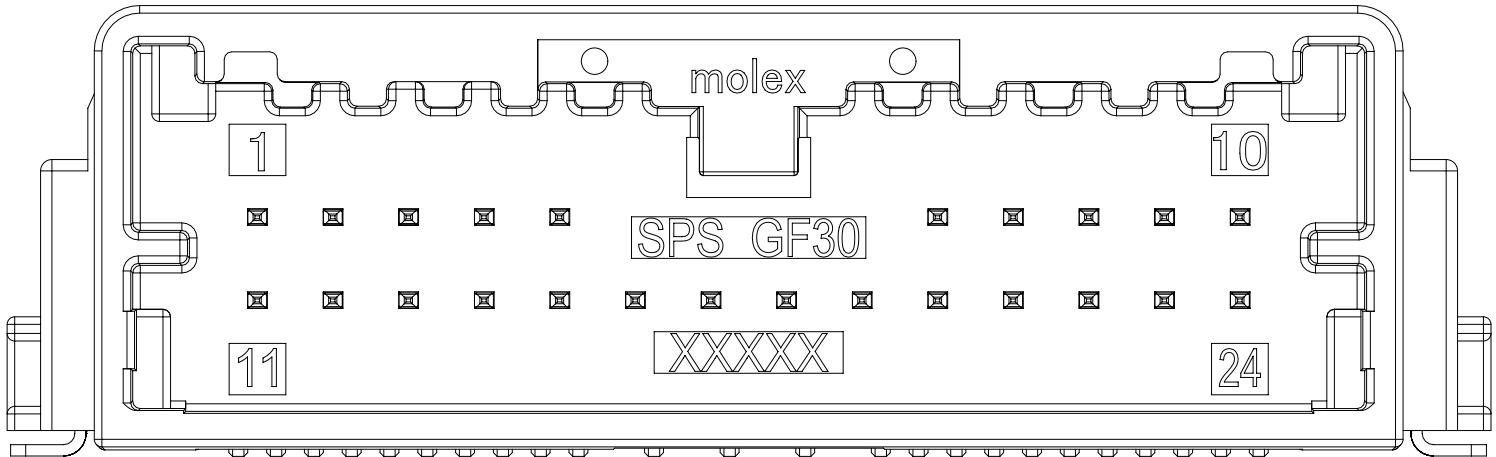
24CKT POLARIZATION OPTIONS SHOWN BELOW
ARE REPRESENTATIVE FOR 16 AND 20CKT



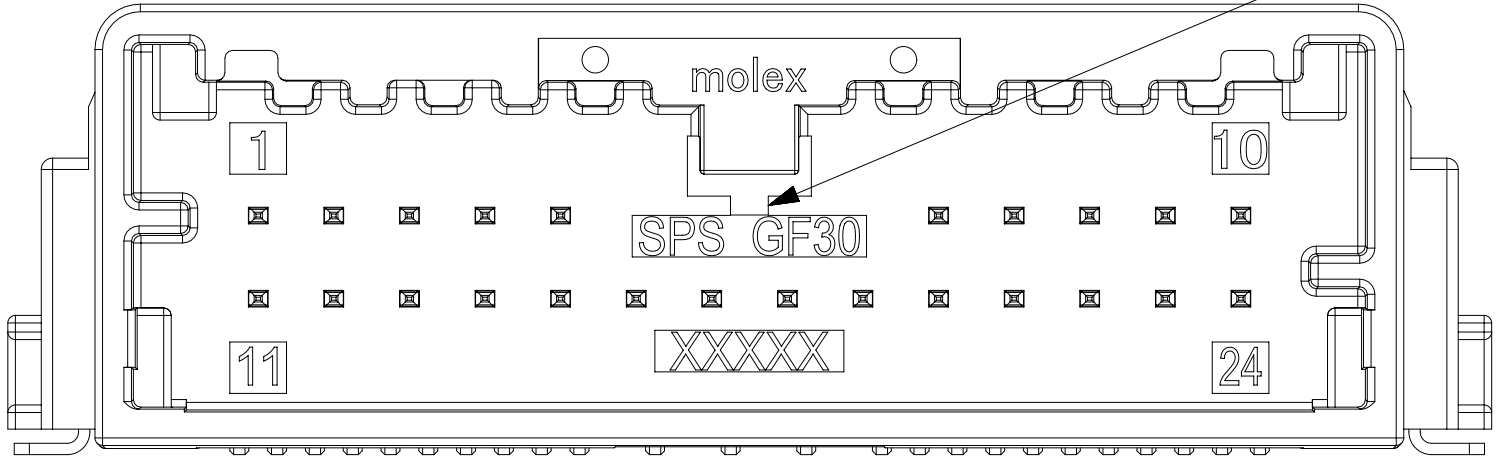
24 CIRCUIT SMT HEADER
POLARIZATION OPTION A



24 CIRCUIT SMT HEADER
POLARIZATION OPTION B



24 CIRCUIT SMT HEADER
POLARIZATION OPTION C



V0 IDENTIFIER
APPLIES FOR 12-24CKT

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-34791-020
 - b. PRODUCT SPECIFICATION SEE: PS-34791-020
 - c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE CHART
 - d. SOLDERABILITY PER SMES-152
 - e. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300
 - f. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
 - g. FLAMMABILITY REQUIREMENT: PER ISO3795 OR GM3191
 - h. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

2. DESIGN - MATERIALS:
- a. SHROUD (PLASTIC HOUSING): SPS 30% GF, 25% REGRIND MAX PER WEIGHT
 - b. BLADES:
 - BASE METAL: C26000 BRASS
 - PLATING REQUIREMENTS:
 - TIN:
 - UNDERPLATING:
 - OVERALL NICKEL: 1.25 - 2.25 MICROMETERS
 - OVERPLATING:
 - OVERALL TIN: 2.5 - 4.0 MICROMETERS
 - GOLD:
 - UNDERPLATING:
 - OVERALL NICKEL: 1.25 - 2.25 MICROMETERS
 - OVERPLATING:
 - CONTACT AREA: ELECTRODEPOSITED GOLD
 - MINIMUM 0.76 MICROMETERS HARD GOLD
 - PCB CONTACT AREA: ELECTRODEPOSITED TIN MATTE FINISH
 - MINIMUM 2.5 - 4.0 MICROMETERS

3. DESIGN - GEOMETRY:
- a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
 - b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 2009
 - c. GENERAL TOLERANCES: SEE TITLE BLOCK
 - d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - e. CORNERS SHOWN AS SHARP TO BE R 0.1 MAX
 - f. LETTERING SHALL BE BELOW SURROUNDING SURFACE OF PART. THIS INCLUDES RECYCLING CODE, PLANT AND CAVITY ID, VENDOR ID, AND CIRCUIT ID.
 - g. INTERFACE - USCAR
 - 050-U-012-2-ZXX
 - 050-U-016-2-ZXX
 - 050-U-020-2-ZXX
 - 050-U-024-2-ZXX

W11	SHEET 5: REMOVED AVAILABILITY AND MATING COLUMNS ON BOM SHEET 5: ADDED MATING COMPONENT NOTE
W10	SHEET 2: ADDED BALLOONS 14A, 14B
W9	SHEET 1: ADDED V0 VIEW SHEET 5: REORGANIZED BOM TABLE
W8	DRAWING REMASTERED SHEET 1: UPDATED NOTE 2b BASE METAL SHEET 1: ADDED NOTE 3g SHEET 2: SOLDERNAIL POCKET DIMS UPDATED SHEET 3: ADDED BALLOONS 13A & 13B SHEET 5: ADDED V0 TIN PART NUMBERS TO BOM
W7	UPDATED INSPECTION LOG, CHANGED DESCRIPTION, ADDED BASIC DIMS TO SHEET 2
W6	DELETED 34897-6164
W5	ADDED DIM BALLOON 15 & 16
W4	ADDED 16CKT GOLD DEPOPULATED POL A P/N
W3	NX REMASTERING
REV	DESCRIPTION

INSPECTION BALLON NUMBER LOG			
PER DRAWING REVISION: W11			
LAST BALLOON USED: 16			
ADDED BALLOON NUMBERS: 1A, 4A, 7A, 10A			
REMOVED BALLOON NUMBERS:			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DIMENSION UNITS	SCALE	CURRENT REV DESC:	
mm	5:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)			
ANGULAR TOL	± 1.0 °		
4 PLACES	±	EC NO: 659285	
3 PLACES	±	DRWN: SRUSS 2021/03/16	
2 PLACES	± 0.1	CHK'D: KHEWITT 2021/03/25	
1 PLACE	± 0.2	APPR: JDUNAJ 2021/03/25	
0 PLACES	±	INITIAL REVISION: DRWN: SMAHESHBABU 2017/03/20 APPR: KHEWITT 2017/06/21	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING
			D-SIZE
		SERIES	34897
		MATERIAL NUMBER	CUSTOMER
		GENERAL MARKET	SHEET NUMBER
			1 OF 5

molex

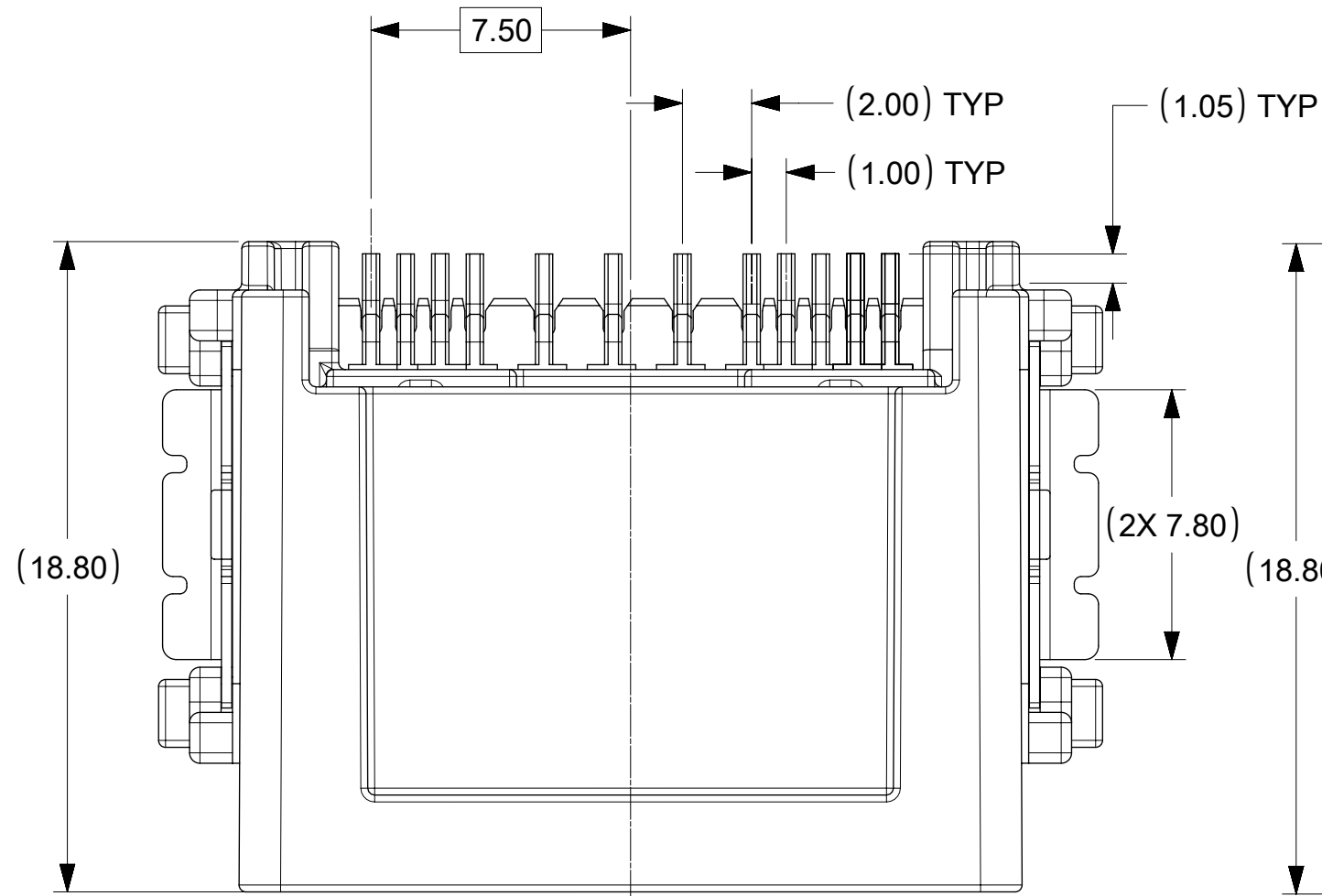
MINI50 12-24CKT SMT HDR SALES DRAWING

PRODUCT CUSTOMER DRAWING

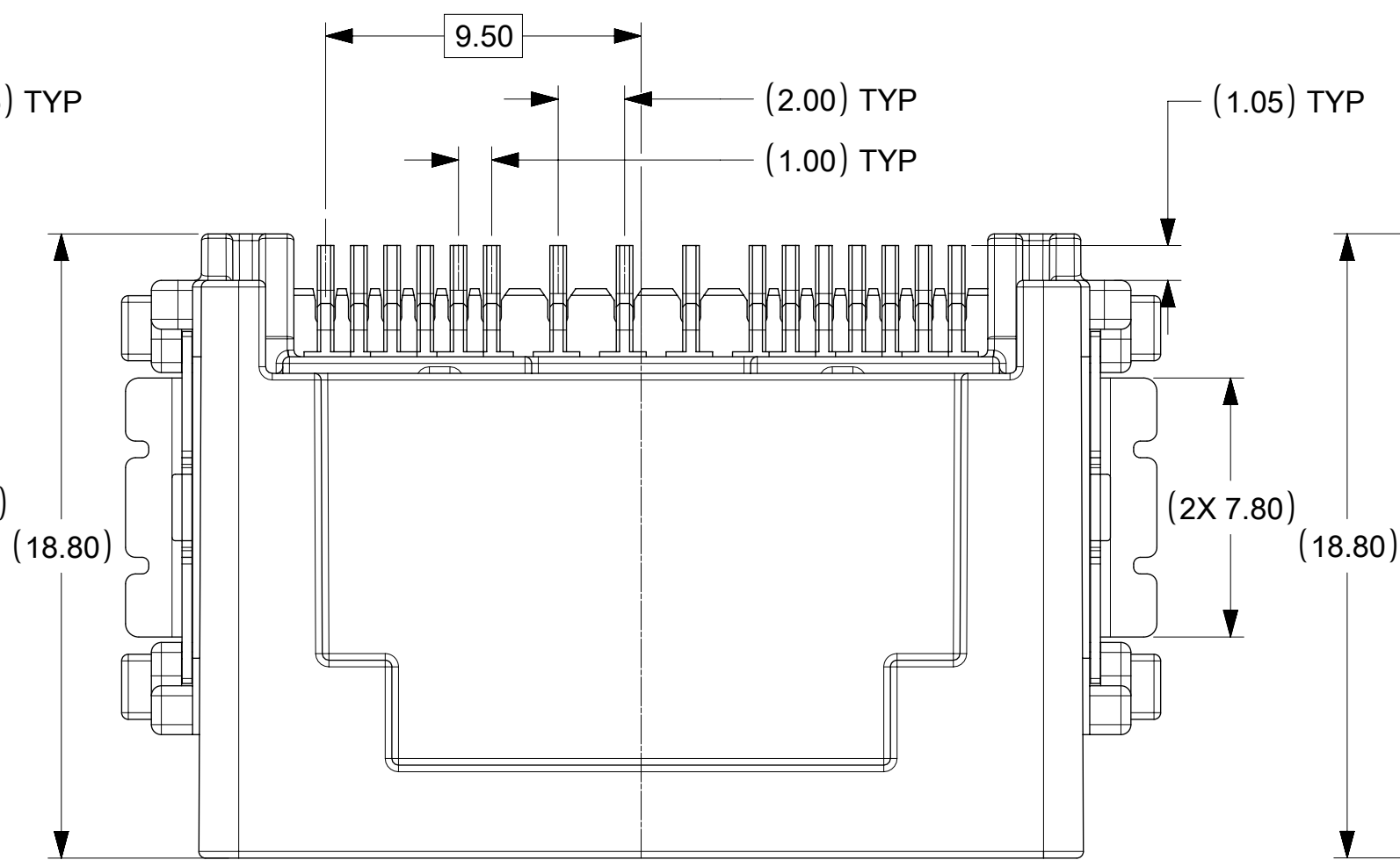
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34897-001	PSD	000	W11

DOCUMENT STATUS	P1	RELEASE DATE	2021/03/25	19:03:47
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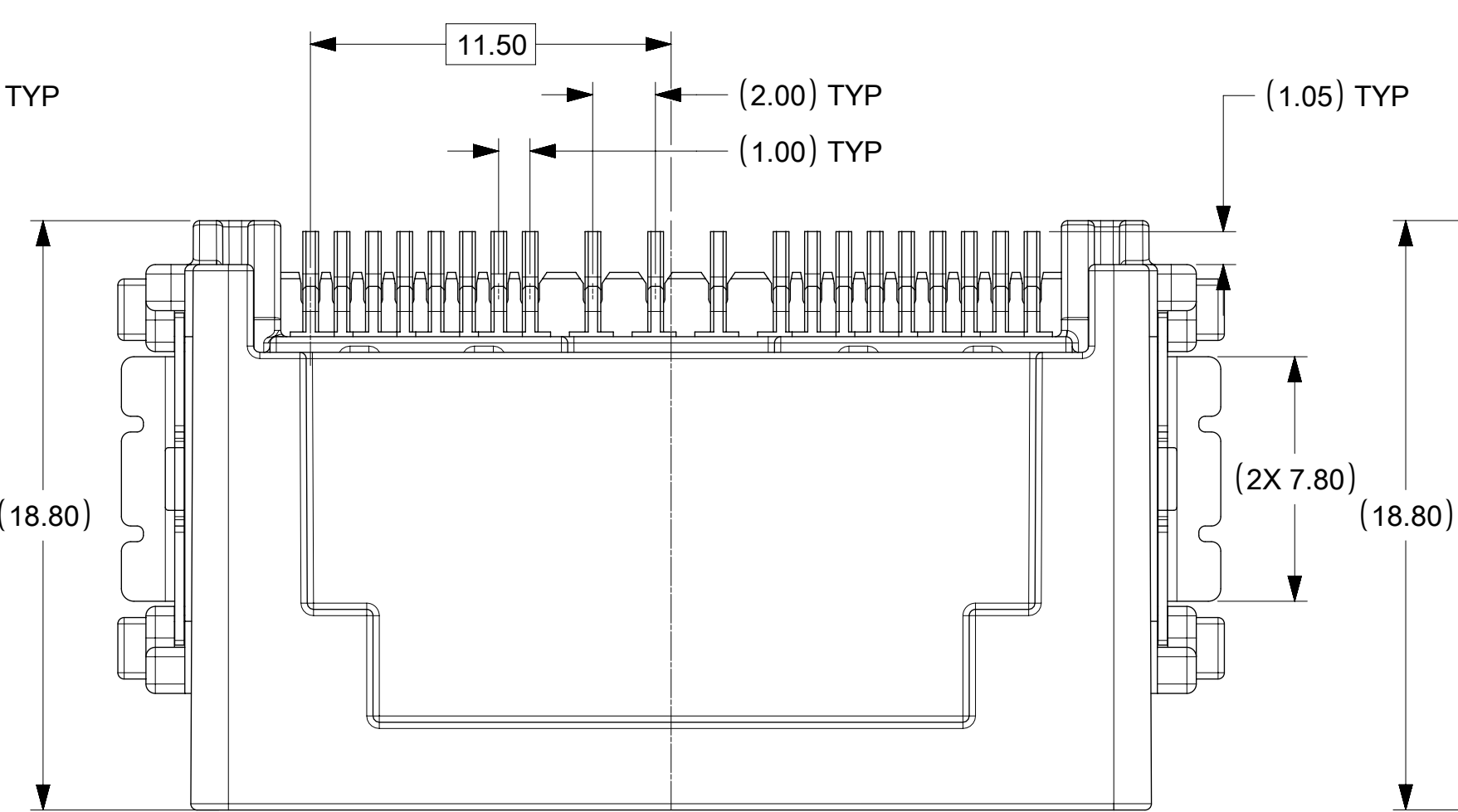
12 CKT SMT HEADER



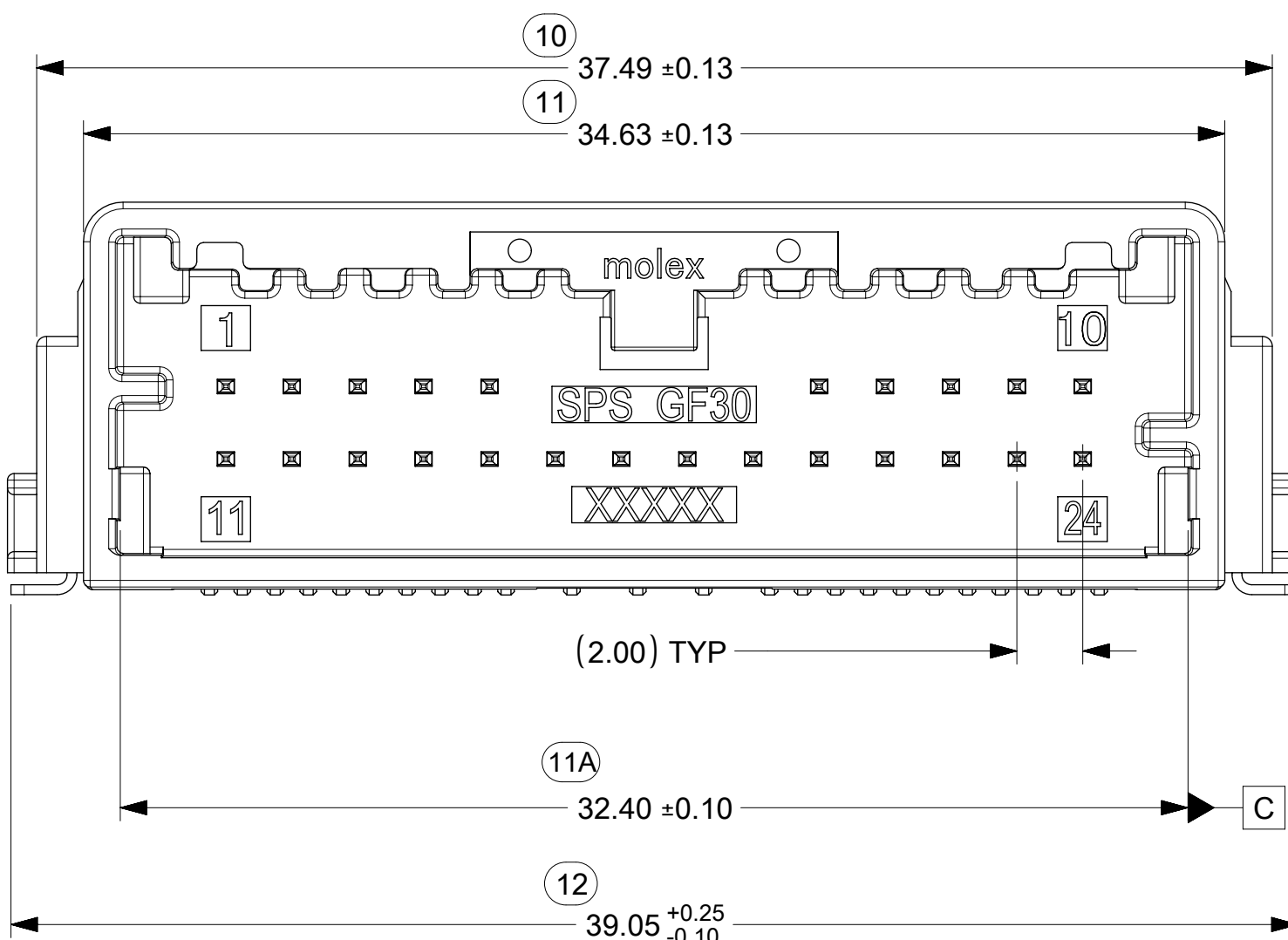
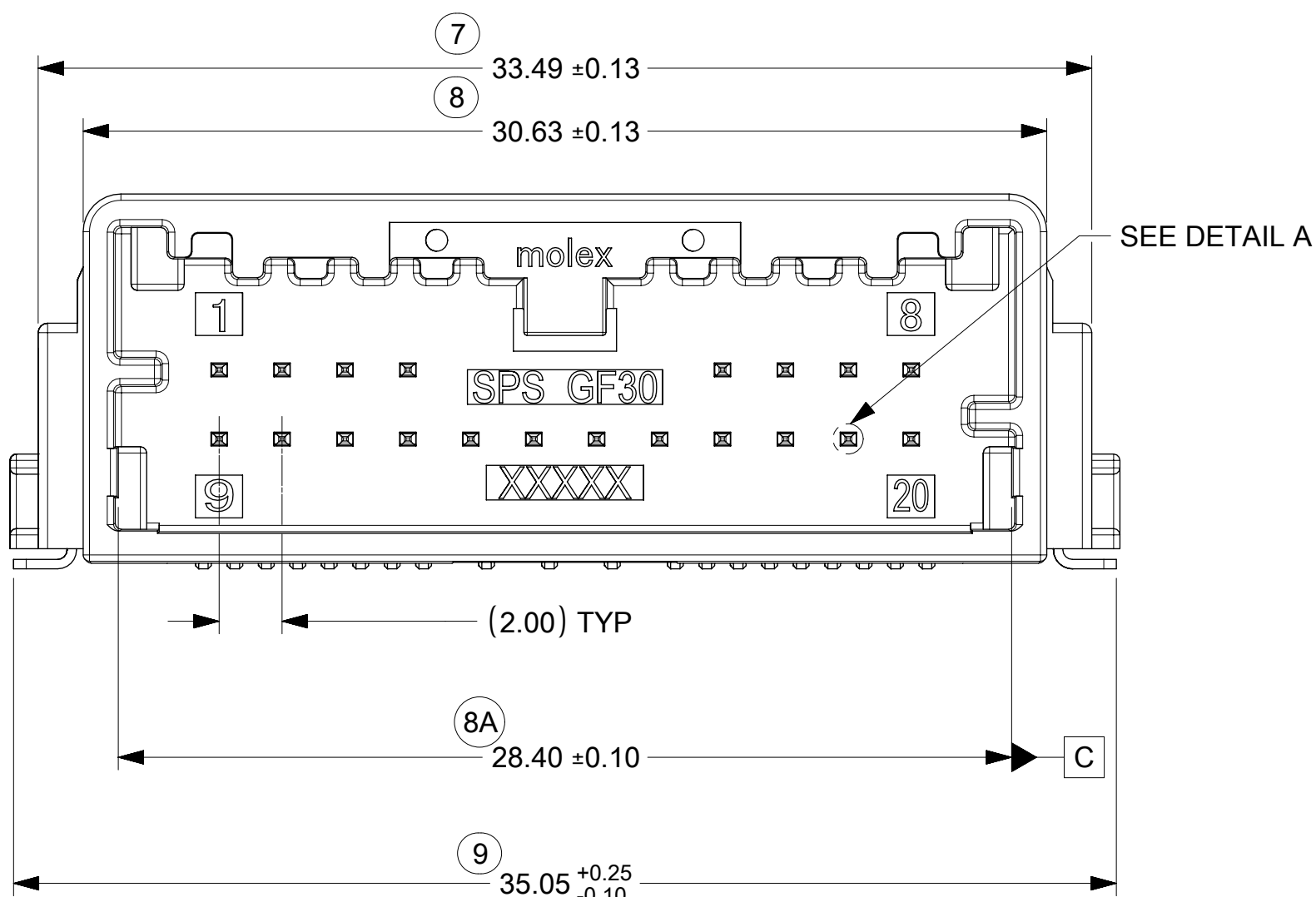
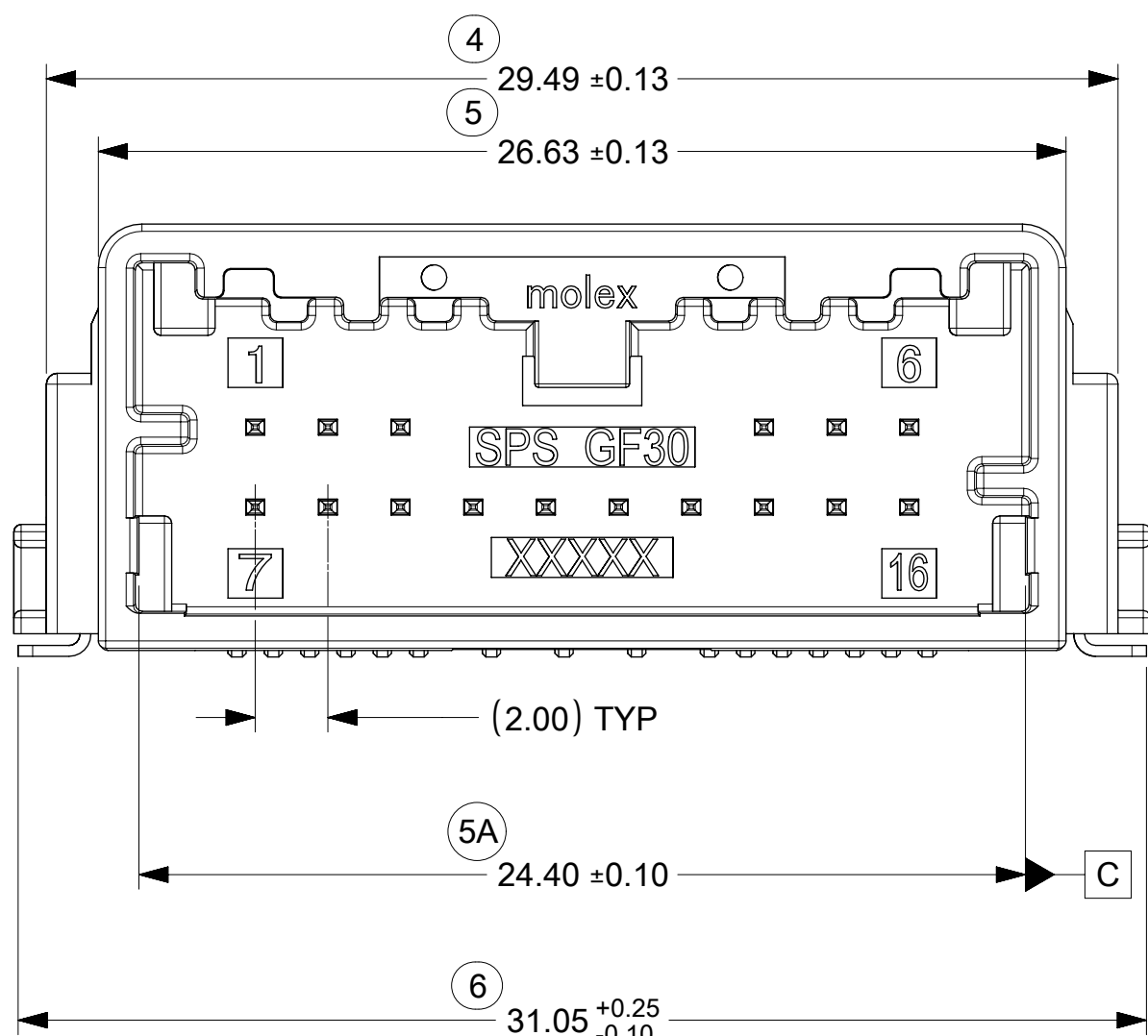
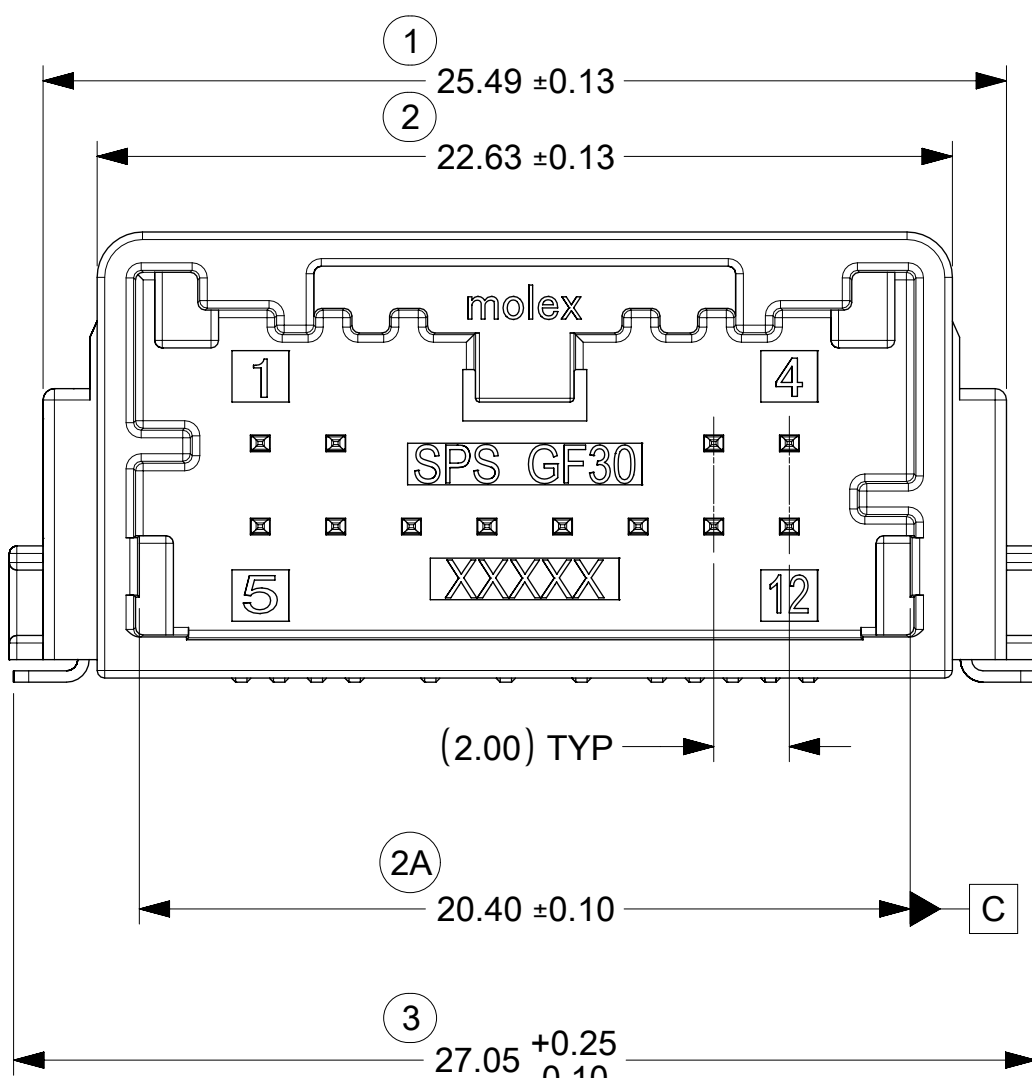
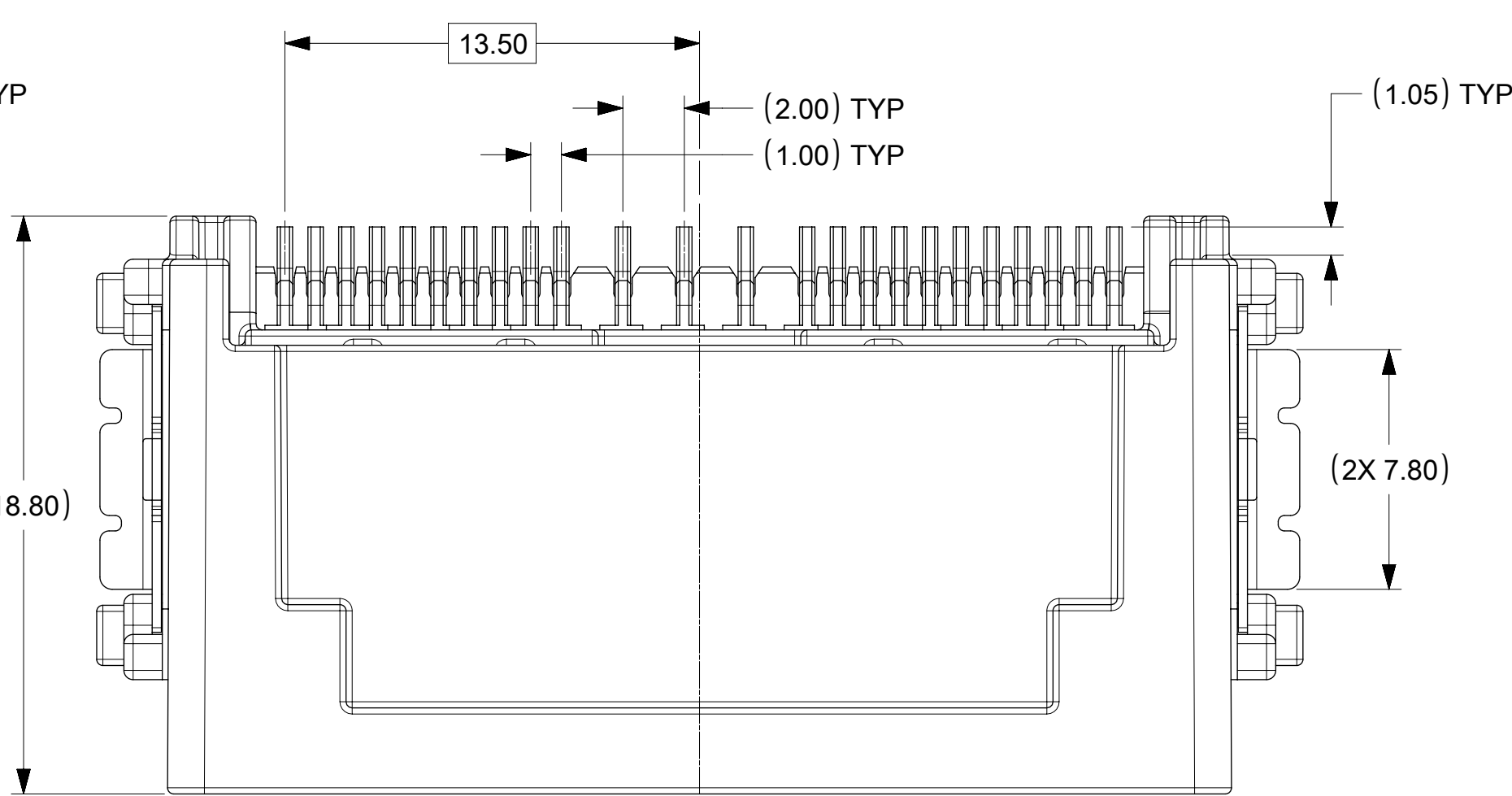
16 CKT SMT HEADER



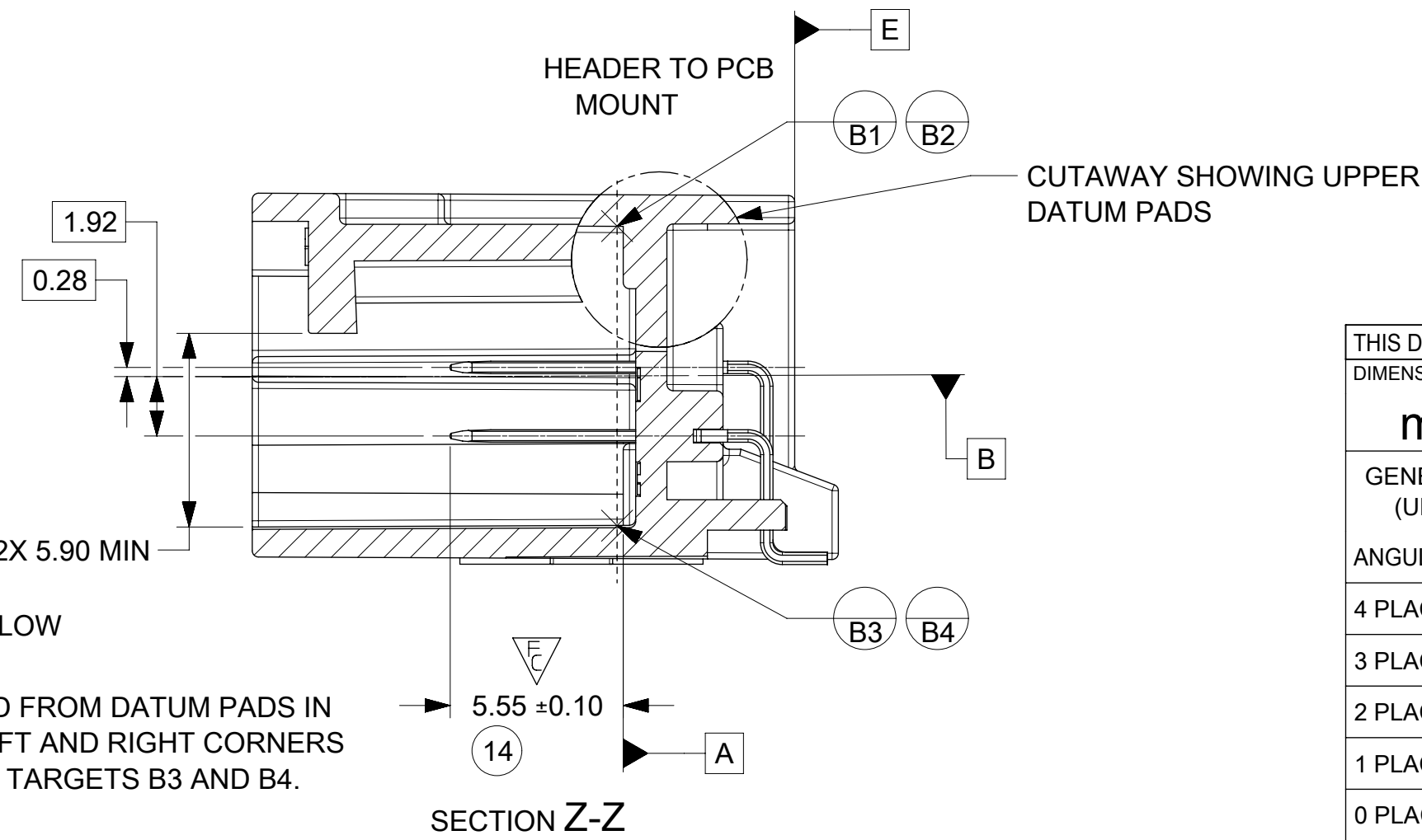
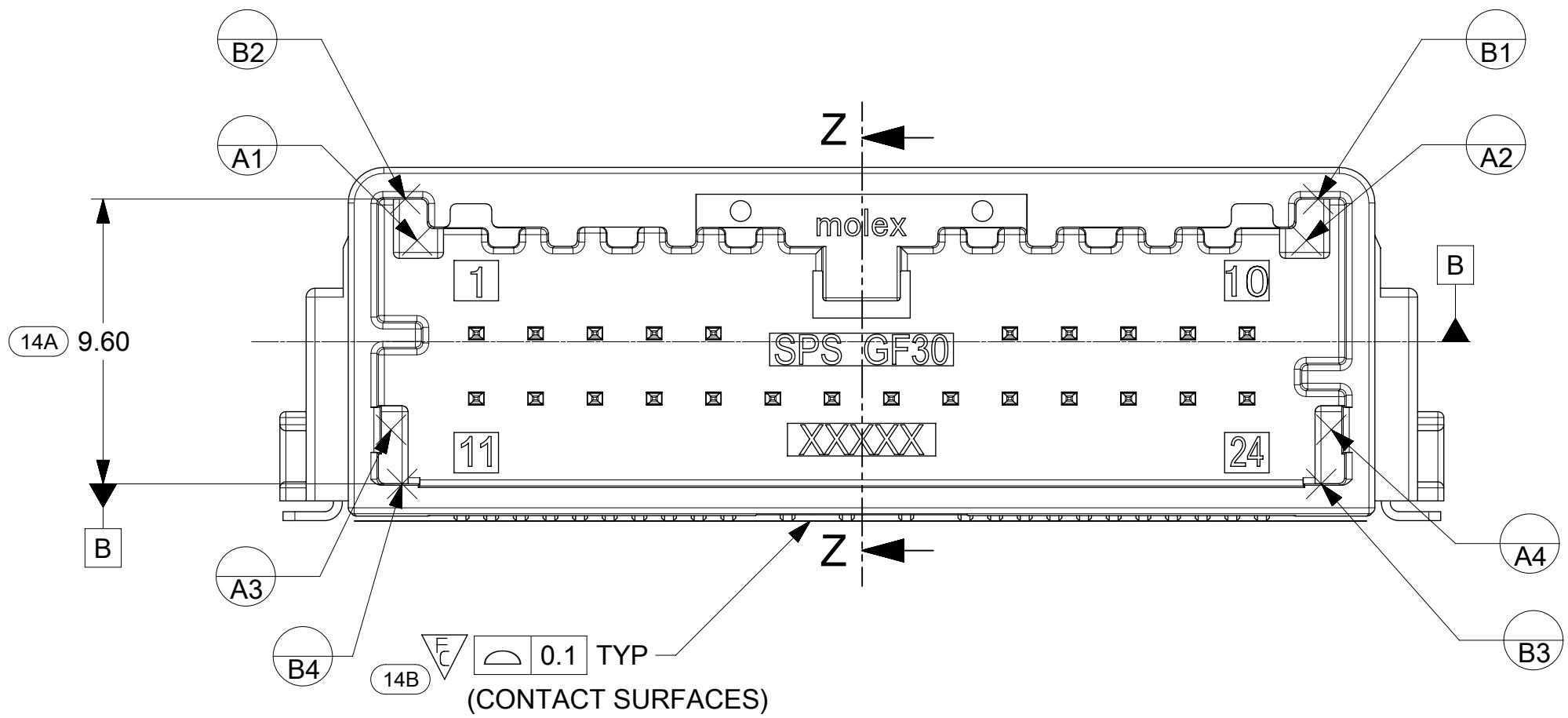
20 CKT SMT HEADER



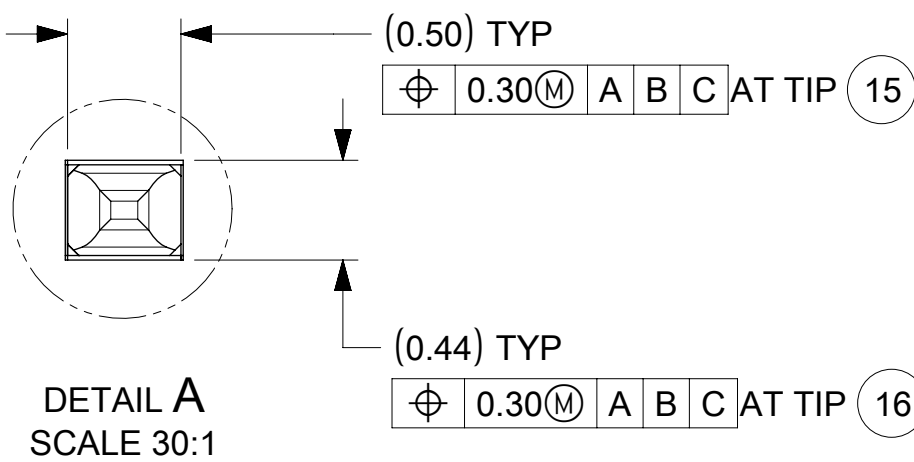
24 CKT SMT HEADER



POST-REFLOW MINIMUM LATCH HEIGHT
24 CKT HEADER ASSEMBLY SHOWN AS EXAMPLE



*POST REFLOW
MINIMUM
MEASURED FROM DATUM PADS IN
LOWER LEFT AND RIGHT CORNERS
TO DATUM TARGETS B3 AND B4.



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex	
mm		5:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 659285 DRWN: SRUSS CHK'D: KHEWITT APPR: JDUNAJ					
ANGULAR TOL ± 1.0°									
4 PLACES		±		2021/03/16		MINI50 12-24CKT SMT HDR SALES DRAWING			
3 PLACES		±		2021/03/25					
2 PLACES		± 0.1		2021/03/25		PRODUCT CUSTOMER DRAWING			
1 PLACE		± 0.2							
0 PLACES		±		2017/03/20 2017/06/21		DOCUMENT NUMBER SD-34897-001			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 					
						MATERIAL NUMBER		CUSTOMER GENERAL MARKET	
						SHEET NUMBER 2 OF 5		REVISION W1	

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MINI50 12-24CKT SMT HDR SALES DRAWING

PRODUCT CUSTOMER DRAWING

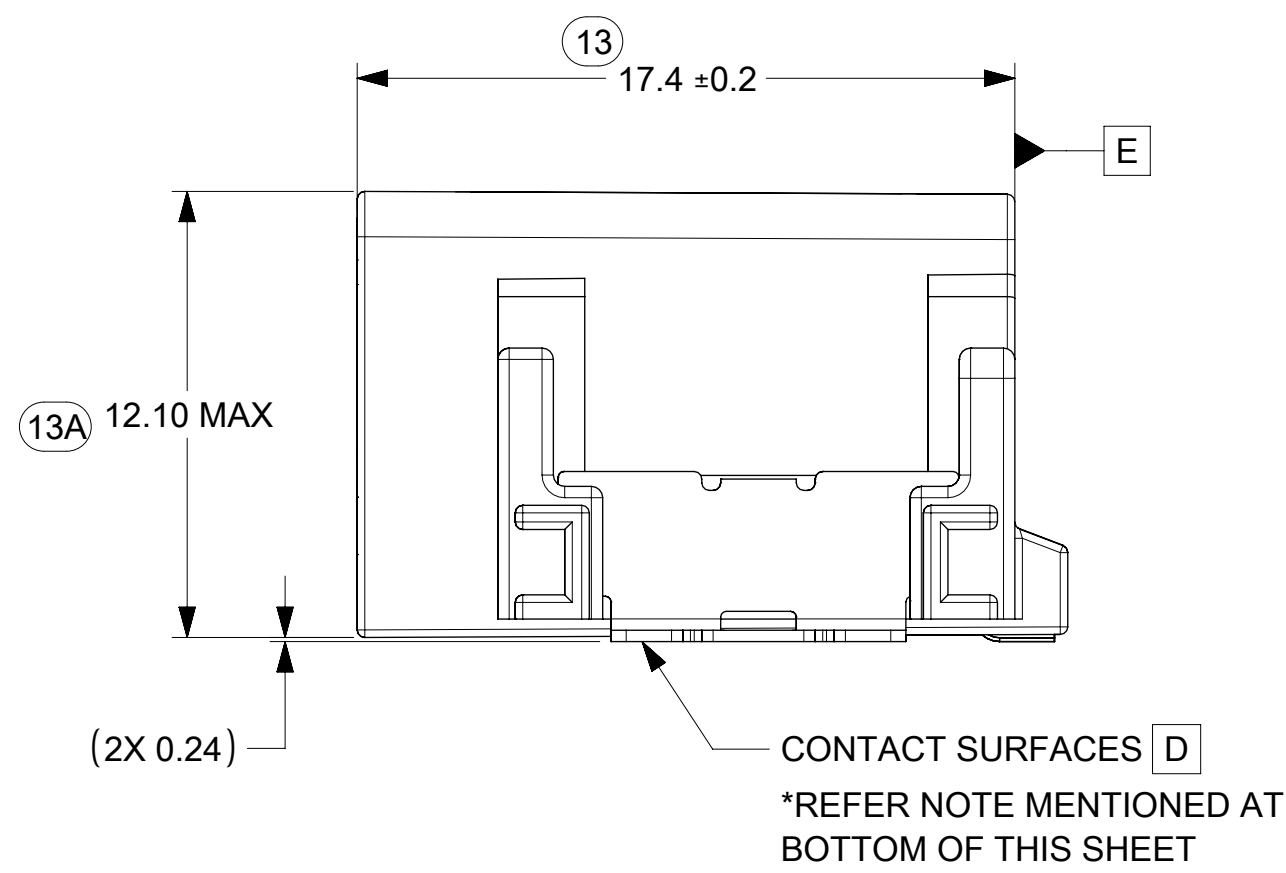
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MATERIAL NUMBER, CUSTOMER, SHEET NUMBER

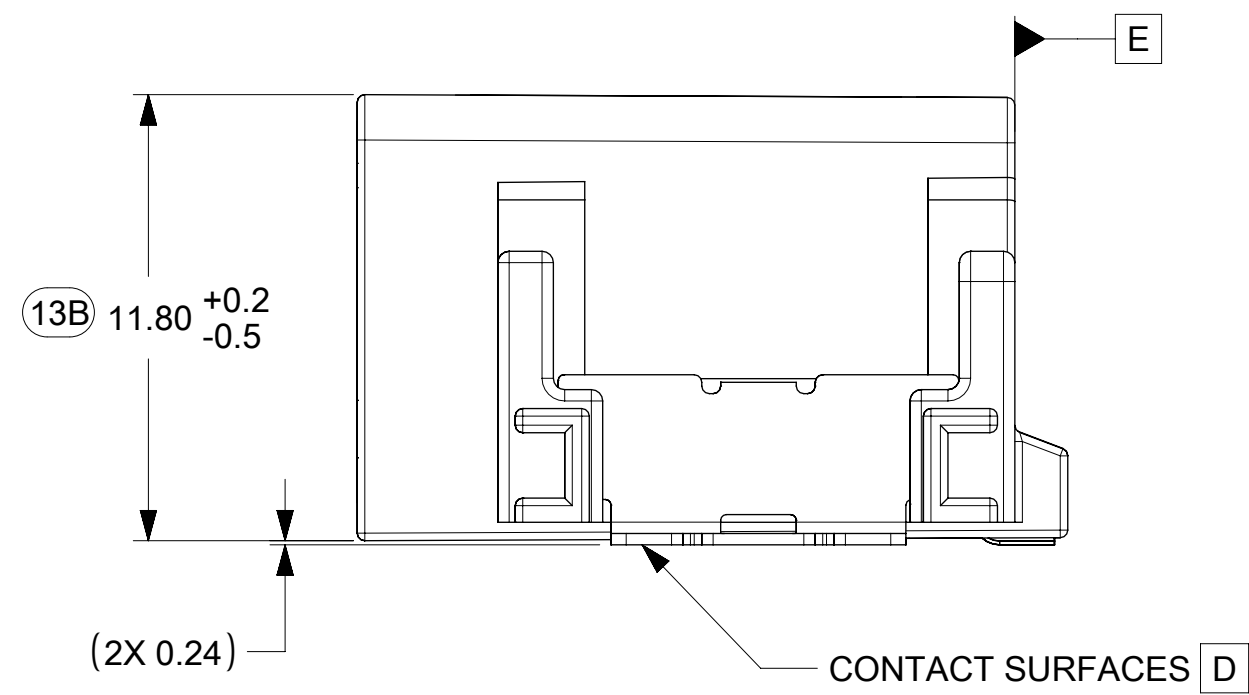
GENERAL MARKET, 2 OF 5

DOCUMENT STATUS: P1, RELEASE DATE: 2021/03/25, 19:03:47

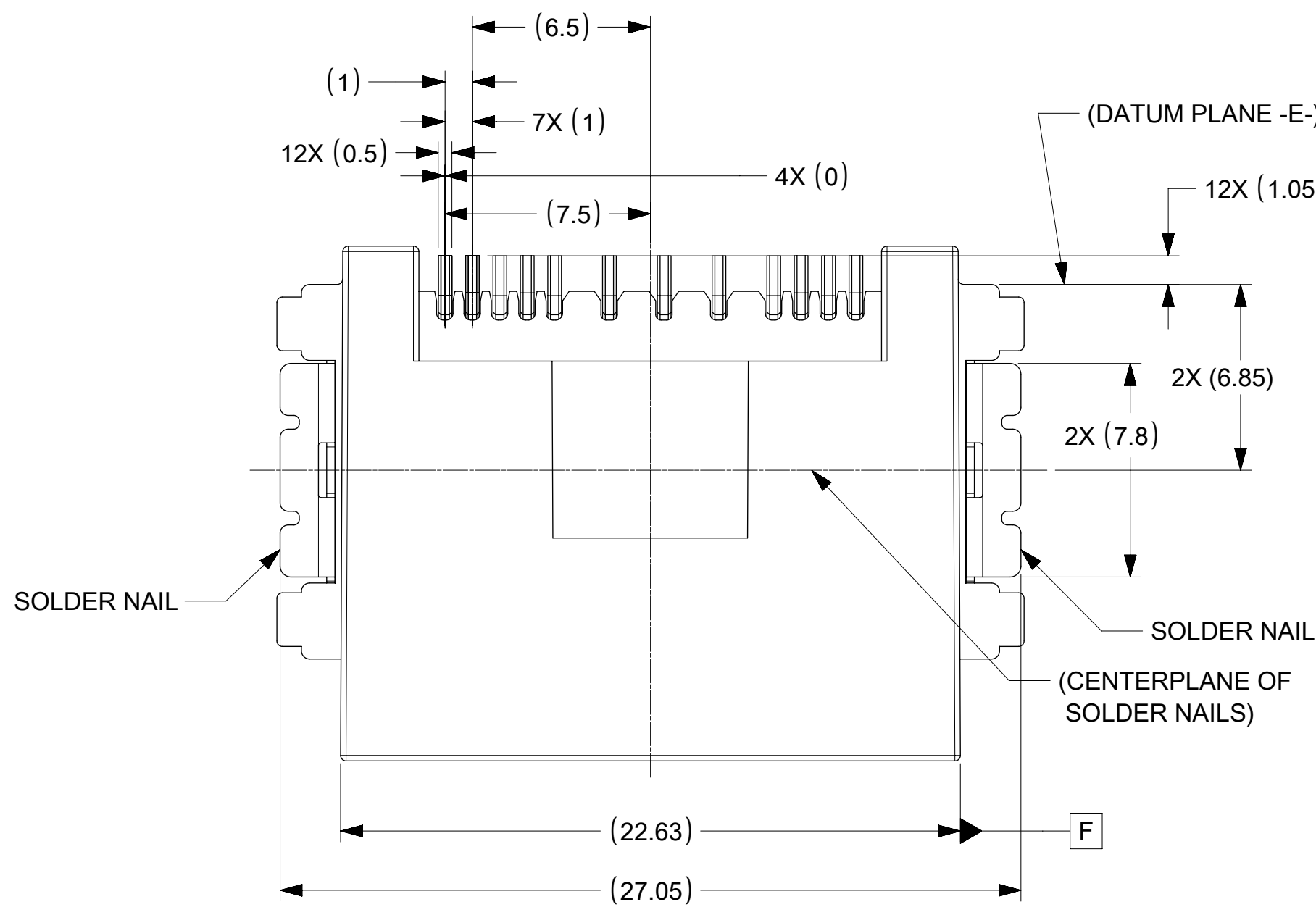
BEFORE REFLOW SOLDERING
TEMPERATURE EXPOSURE



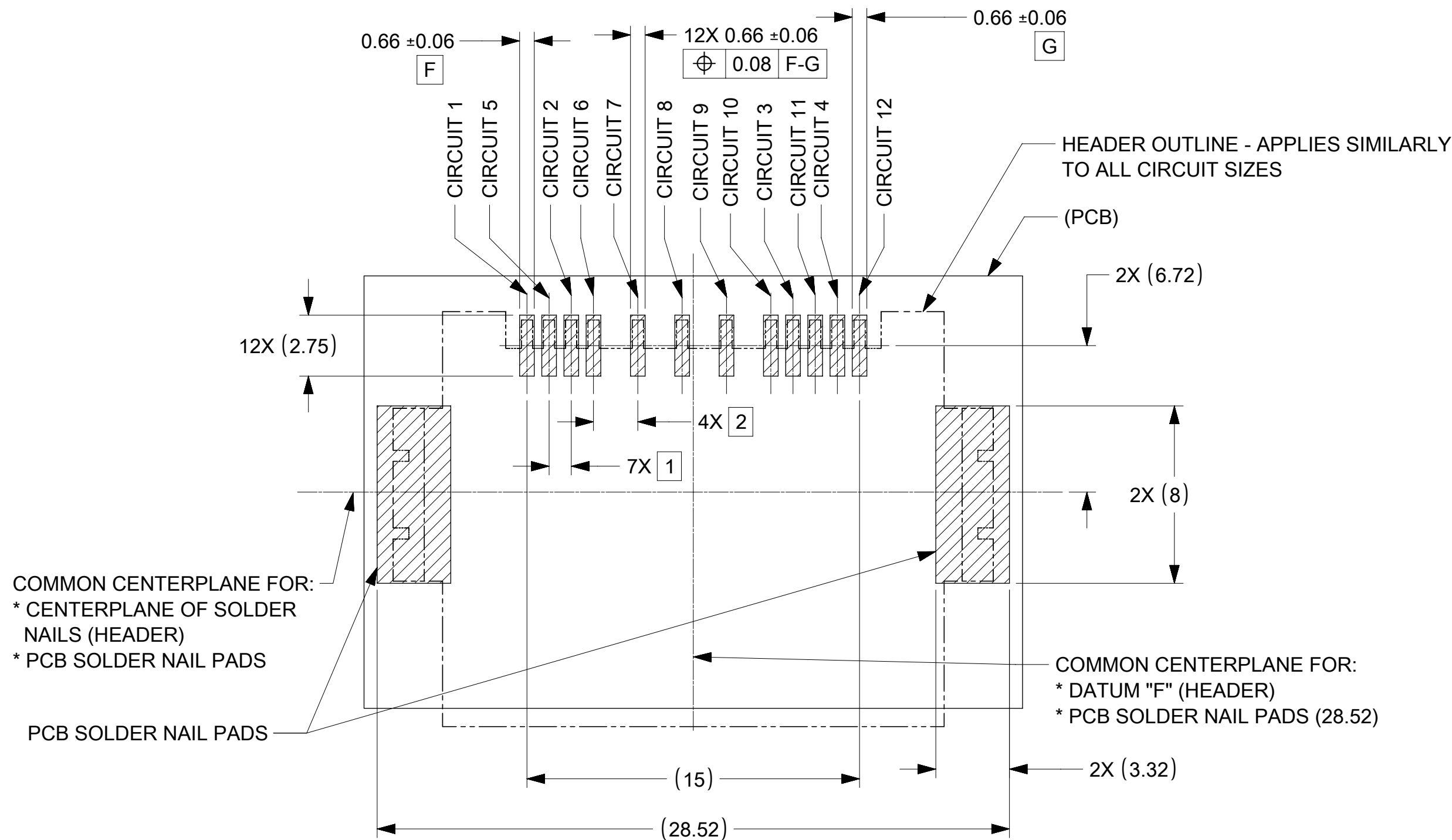
AFTER REFLOW SOLDERING
TEMPERATURE EXPOSURE



NOTE:
CONTACTS PER CKT:
12 CKT - 14 CONTACTS
16 CKT - 18 CONTACTS
20 CKT - 22 CONTACTS
24 CKT - 26 CONTACTS



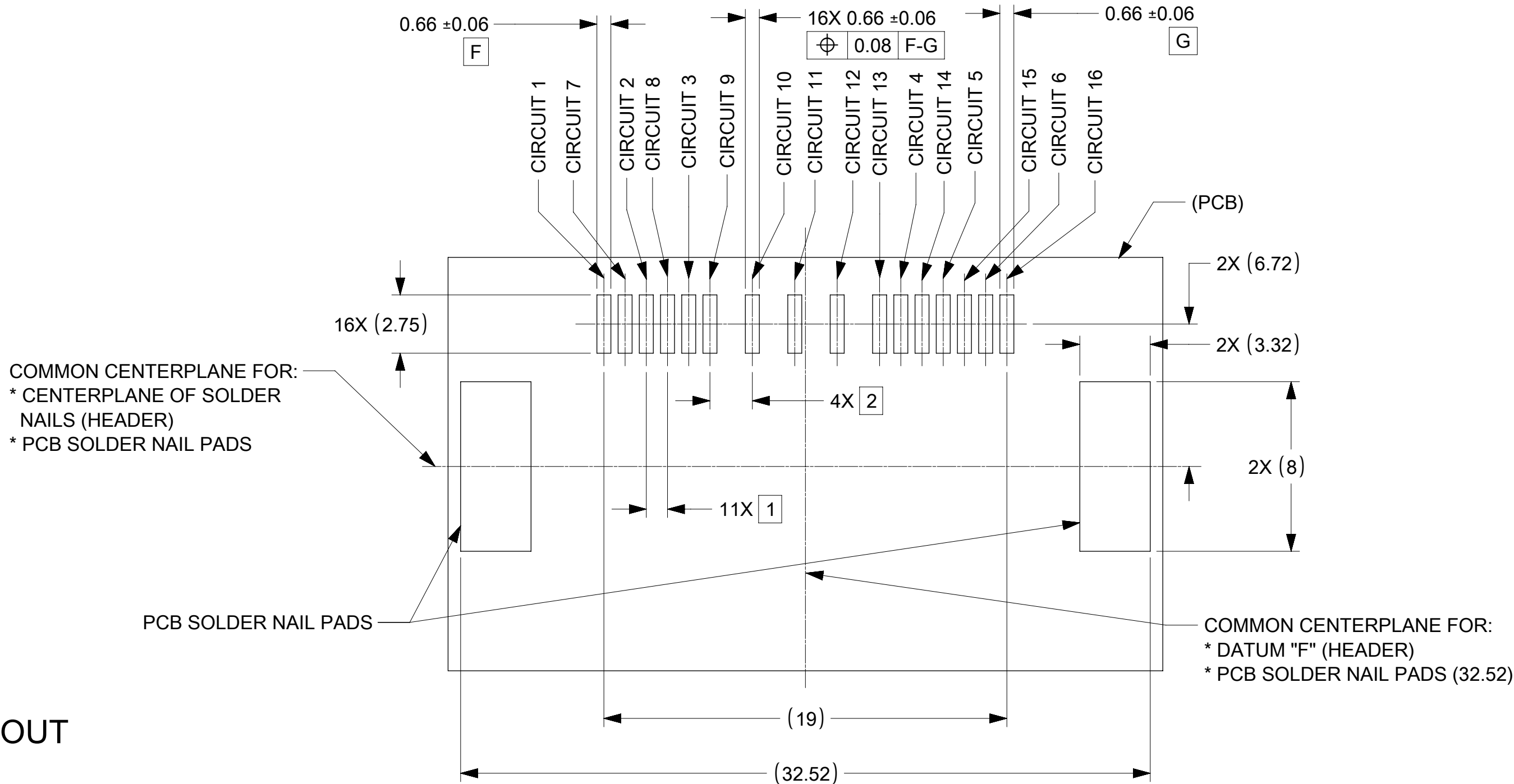
12 CKT SMT HEADER (BOTTOM VIEW)
(OTHER CIRCUIT SIZES ARE SIMILAR)



12 CKT PCB LAYOUT

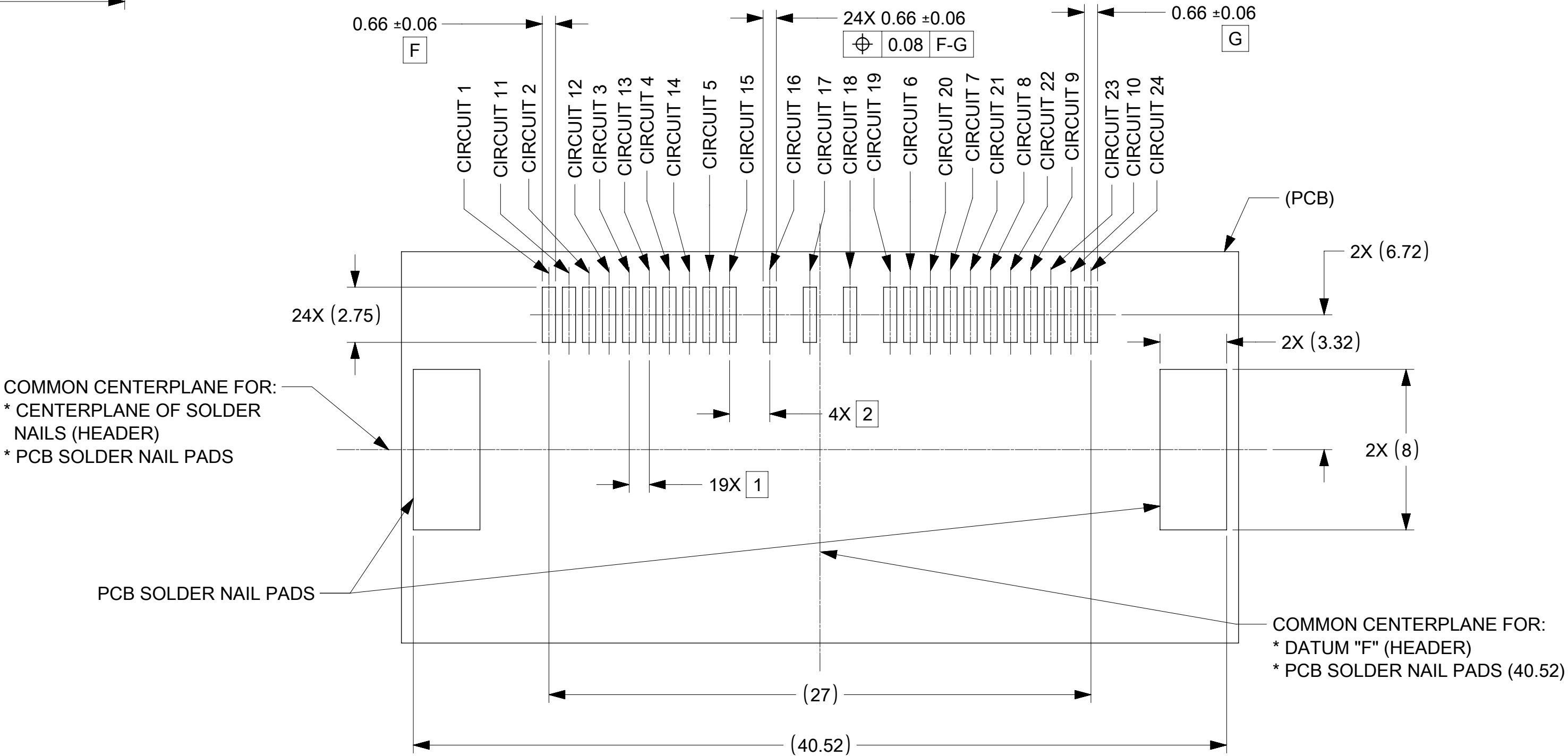
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
DIMENSION UNITS		SCALE		CURRENT REV DESC:															
mm		5:1																	
GENERAL TOLERANCES (UNLESS SPECIFIED)				molex MINI50 12-24CKT SMT HDR SALES DRAWING PRODUCT CUSTOMER DRAWING															
ANGULAR TOL ± 1.0°																			
4 PLACES		±																	
3 PLACES		±																	
2 PLACES		± 0.1																	
1 PLACE		± 0.2																	
0 PLACES		±																	
EC NO: 659285 DRWN: SRUSS 2021/03/16 CHK'D: KHEWITT 2021/03/25 APPR: JDUNAJ 2021/03/25				INITIAL REVISION:															
				DRWN: SMAHESHBABU 2017/03/20 APPR: KHEWITT 2017/06/21															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
 				D-SIZE		34897		MATERIAL NUMBER		CUSTOMER		SD-34897-001		PSD		000		W11	
												GENERAL MARKET		3 OF 5					

16 CKT PCB LAYOUT

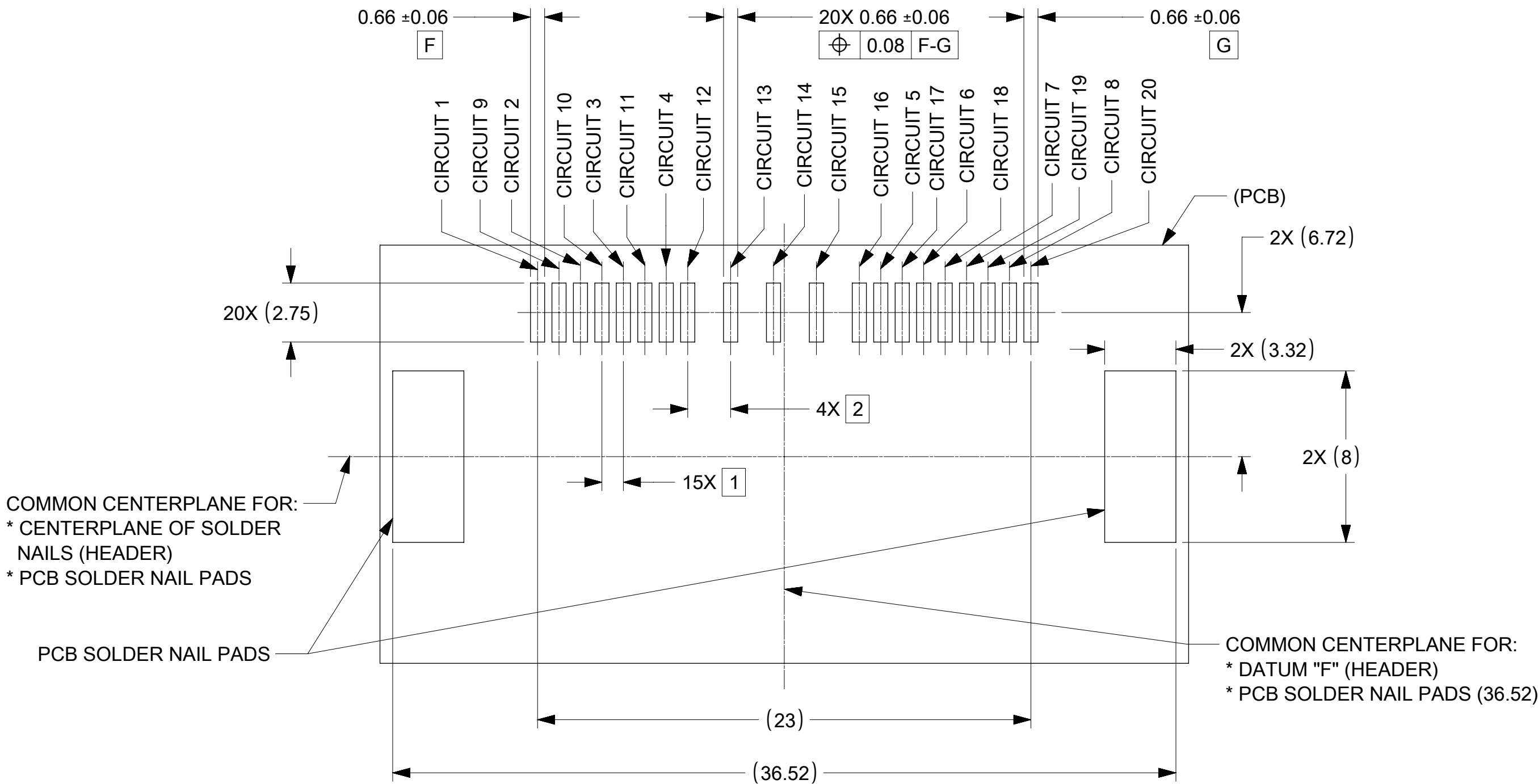


RECOMMENDED PCB LAYOUT:

24 CKT PCB LAYOUT



20 CKT PCB LAYOUT



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DIMENSION UNITS	SCALE	CURRENT REV DESC:	
mm	5:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)			
ANGULAR TOL	± 1.0 °		
4 PLACES	±		
3 PLACES	±		
2 PLACES	± 0.1		
1 PLACE	± 0.2		
0 PLACES	±		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING
			D-SIZE

EC NO: 659285
DRWN: SRUSS
CHK'D: KHEWITT
APPR: JDUNAJ

2021/03/16
2021/03/25
2021/03/25

INITIAL REVISION:
DRWN: SMAHESHBABU
APPR: KHEWITT

2017/03/20
2017/06/21

THIRD ANGLE PROJECTION

DRAWING

SERIES

34897

MINI50 12-24CKT SMT HDR SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34897-001	PSD	000	W11
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
	GENERAL MARKET	4 OF 5	

DOCUMENT STATUS	P1	RELEASE DATE	2021/03/25	19:03:47
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MINI50 SMT DUAL ROW HEADER ASSEMBLIES

CIRCUIT	POL	COLOR	MATERIAL NUMBER		BLADE PLATING	FLAMMABILITY
			TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-31301-786		
12	A	BLACK	34897-9120	34897-8120	TIN	HB
	B	GRAY	34897-9121	34897-8121	TIN	
	C	DARK GRAY	34897-9122	34897-8122	TIN	
16	A	BLACK	34897-9160	34897-8160	TIN	HB
	B	GRAY	34897-9161	34897-8161	TIN	
	C	DARK GRAY	34897-9162	34897-8162	TIN	
20	A	BLACK	34897-9200	34897-8200	TIN	HB
	B	GRAY	34897-9201	34897-8201	TIN	
	C	DARK GRAY	34897-9202	34897-8202	TIN	
24	A	BLACK	34897-9240	34897-8240	TIN	HB
	B	GRAY	34897-9241	34897-8241	TIN	
	C	DARK GRAY	34897-9242	34897-8242	TIN	
12	A	BLACK	215423-9120	215423-8120	TIN	V0
	B	GRAY	215423-9121	215423-8121	TIN	
	C	DARK GRAY	215423-9122	215423-8122	TIN	
16	A	BLACK	215423-9160	215423-8160	TIN	V0
	B	GRAY	215423-9161	215423-8161	TIN	
	C	DARK GRAY	215423-9162	215423-8162	TIN	
20	A	BLACK	215423-9200	215423-8200	TIN	V0
	B	GRAY	215423-9201	215423-8201	TIN	
	C	DARK GRAY	215423-9202	215423-8202	TIN	
24	A	BLACK	215423-9240	215423-8240	TIN	V0
	B	GRAY	215423-9241	215423-8241	TIN	
	C	DARK GRAY	215423-9242	215423-8242	TIN	
12	A	BLACK	34897-5120	34897-6120	GOLD	HB
	B	GRAY	34897-5121	34897-6121	GOLD	
	C	DARK GRAY	34897-5122	34897-6122	GOLD	
16	A	BLACK	34897-5160	34897-6160	GOLD	HB
	B	GRAY	34897-5161	34897-6161	GOLD	
	C	DARK GRAY	34897-5162	34897-6162	GOLD	
20	A	BLACK	34897-5200	34897-6200	GOLD	HB
	B	GRAY	34897-5201	34897-6201	GOLD	
	C	DARK GRAY	34897-5202	34897-6202	GOLD	
24	A	BLACK	34897-5240	34897-6240	GOLD	HB
	B	GRAY	34897-5241	34897-6241	GOLD	
	C	DARK GRAY	34897-5242	34897-6242	GOLD	
12	A	BLACK	215423-5120	215423-6120	GOLD	V0
	B	GRAY	215423-5121	215423-6121	GOLD	
	C	DARK GRAY	215423-5122	215423-6122	GOLD	
16	A	BLACK	215423-5160	215423-6160	GOLD	V0
	B	GRAY	215423-5161	215423-6161	GOLD	
	C	DARK GRAY	215423-5162	215423-6162	GOLD	
20	A	BLACK	215423-5200	215423-6200	GOLD	V0
	B	GRAY	215423-5201	215423-6201	GOLD	
	C	DARK GRAY	215423-5202	215423-6202	GOLD	
24	A	BLACK	215423-5240	215423-6240	GOLD	V0
	B	GRAY	215423-5241	215423-6241	GOLD	
	C	DARK GRAY	215423-5242	215423-6242	GOLD	

MATING COMPONENTS

FOR ALL MATING COMPONENT PART NUMBERS SEE THE FOLLOWING SALES DRAWINGS

- GEN I RECEPTACLE ONLY: SD-34824-002

- GEN I RECEPTACLE WITH CPA: SD-34824-003

- GEN II: 2065230000

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DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 1.0°

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.1

1 PLACE ± 0.2

0 PLACES ±

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

D-SIZE

SERIES

34897

CURRENT REV DESC:

EC NO: 659285
DRWN: SRUSS 2021/03/16
CHK'D: KHEWITT 2021/03/25
APPR: JDUNAJ 2021/03/25

INITIAL REVISION:
DRWN: SMAHESHBABU 2017/03/20
APPR: KHEWITT 2017/06/21

DOCUMENT NUMBER

SD-34897-001

DOC TYPE

PSD

DOC PART

000

REVISION

W11

DOCUMENT STATUS

P1

RELEASE DATE

2021/03/25 19:03:47

MATERIAL NUMBER

CUSTOMER

GENERAL MARKET

SHEET NUMBER

5 OF 5

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

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3

2

1