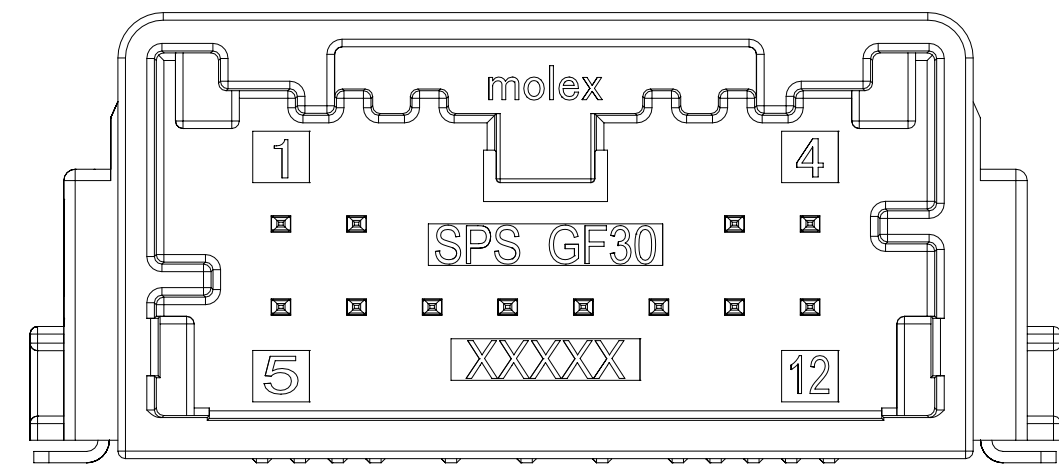
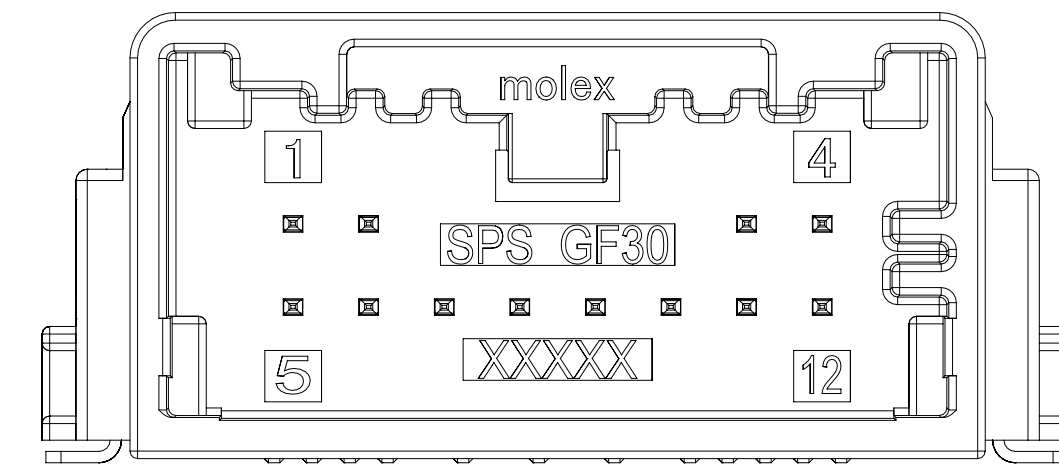


12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION A

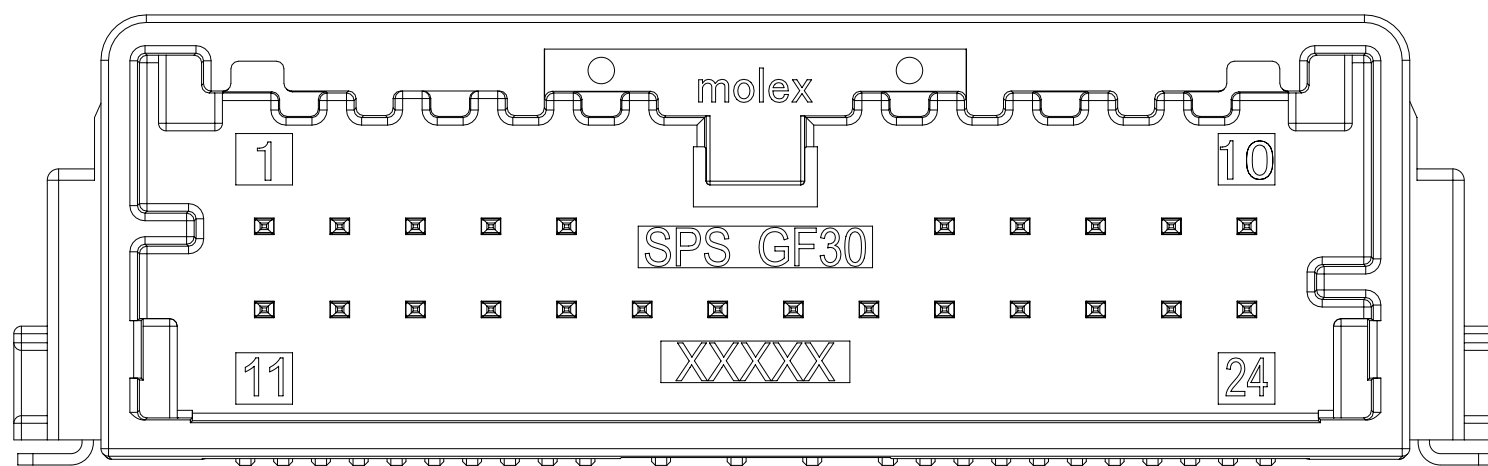


12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION B

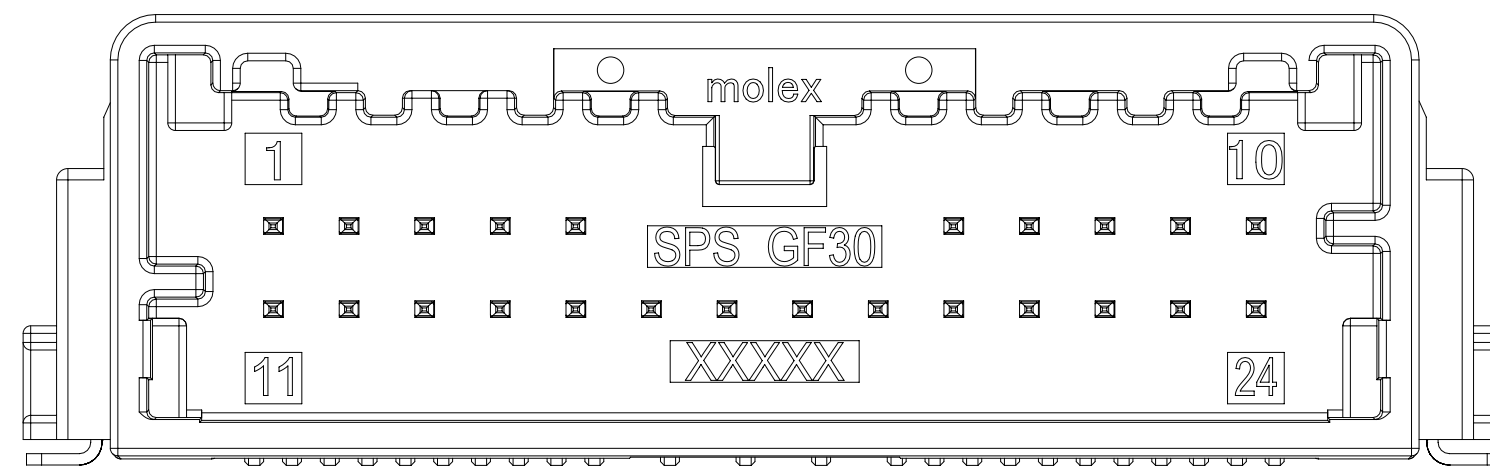


12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION C

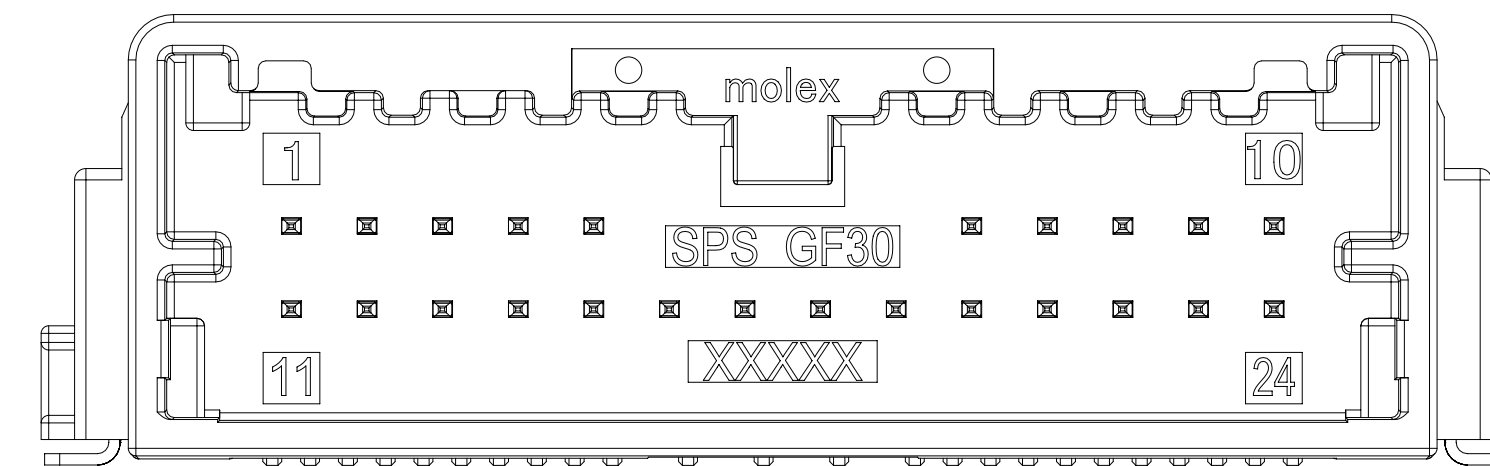
24CKT POLARIZATION OPTIONS SHOWN BELOW
ARE REPRESENTATIVE FOR 16 AND 20CKT



24 CIRCUIT SMT HEADER
POLARIZATION OPTION A



24 CIRCUIT SMT HEADER
POLARIZATION OPTION B



24 CIRCUIT SMT HEADER
POLARIZATION OPTION C

NOTES: VALID UNLESS OTHERWISE SPECIFIED

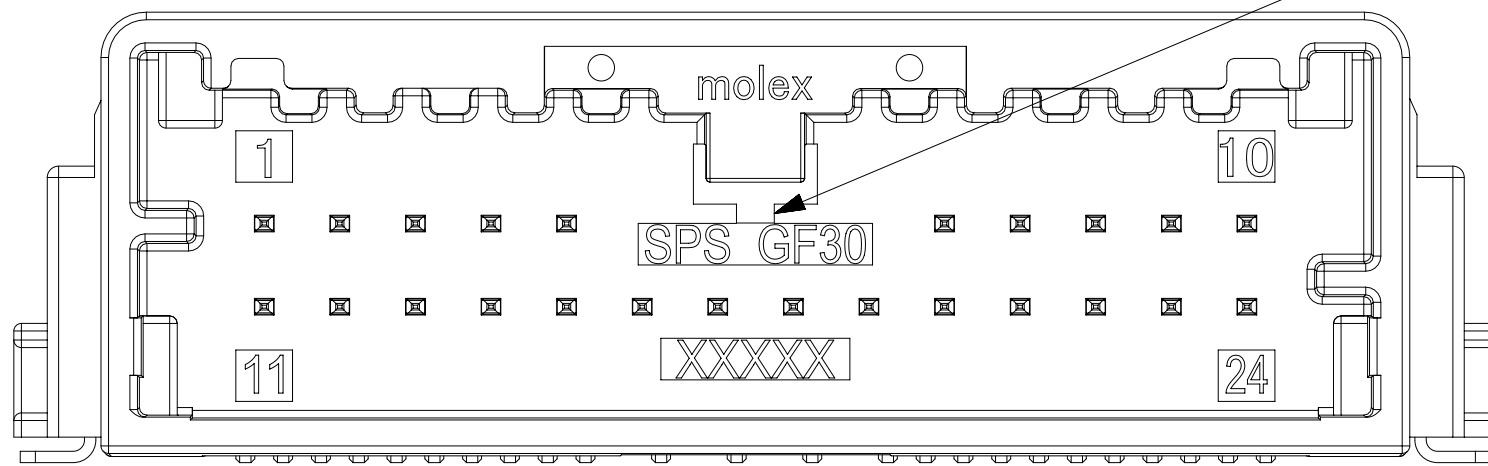
1. GENERAL:
 - a. APPLICATION SPECIFICATION SEE: AS-34791-020
 - b. PRODUCT SPECIFICATION SEE: PS-34791-020
 - c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE CHART
 - d. SOLDERABILITY PER SMES-152
 - e. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: 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:
 - OVERPLATING:
 - OVERALL TIN:

W12

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

V0 IDENTIFIER
APPLIES FOR 12-24CKT



INSPECTION BALLON NUMBER LOG PER DRAWING REVISION: W12		W7	UPDATED INSPECTION LOG, CHANGED DESCRIPTION, ADDED BASIC DIMS TO SHEET 2
LAST BALLOON USED: 16		W6	DELETED 34897-6164
ADDED BALLOON NUMBERS: 1A, 4A, 7A, 10A		W5	ADDED DIM BALLOON 15 & 16
		W4	ADDED 16CKT GOLD DEPOPULATED POL A P/N
		W3	NX REMASTERING
REMOVED BALLOON NUMBERS:		REV	DESCRIPTION

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: REFER TO REVISION COLUMN	
MM	5:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)			
ANGULAR TOL	± 1°		
4 PLACES	± 0	EC NO: CO-000026895	
3 PLACES	± 0	DRWN: Lando Zhang 17-Jun-2025	
2 PLACES	± 0.1	CHK'D: Leo Li 24-Jun-2025	
1 PLACE	± 0.2	APPR: wolffw 25-Jun-2025	
0 PLACES	± 0	INITIAL REVISION: DRWN: RFC_PLMIMP APPR:	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING
			D-SIZE
		SERIES	34897
		MATERIAL NUMBER	GENERAL MARKET
		CUSTOMER	
		SHEET NUMBER	1 OF 5

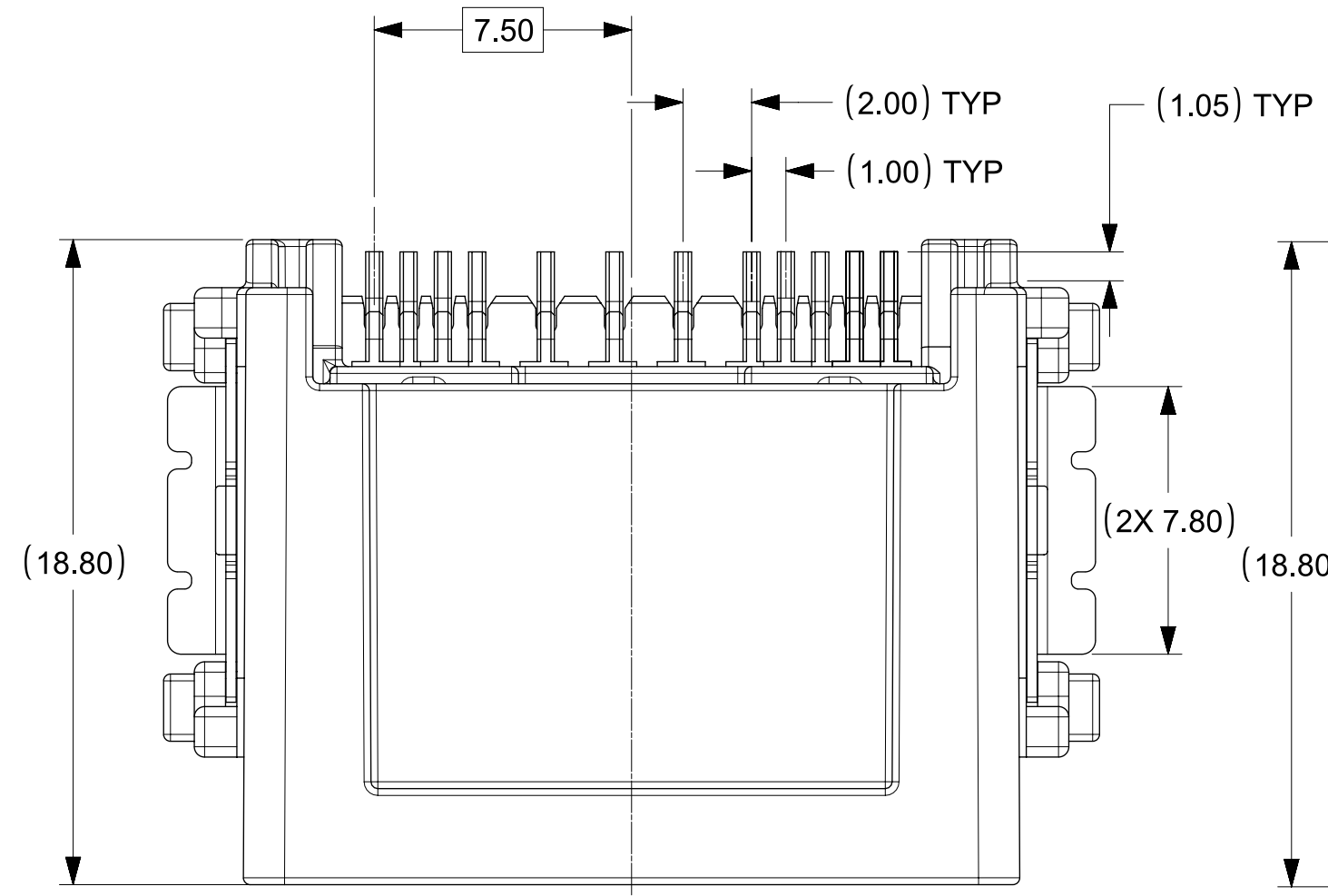
molex

MINI50 12-24CKT SMT HDR SALES DRAWING

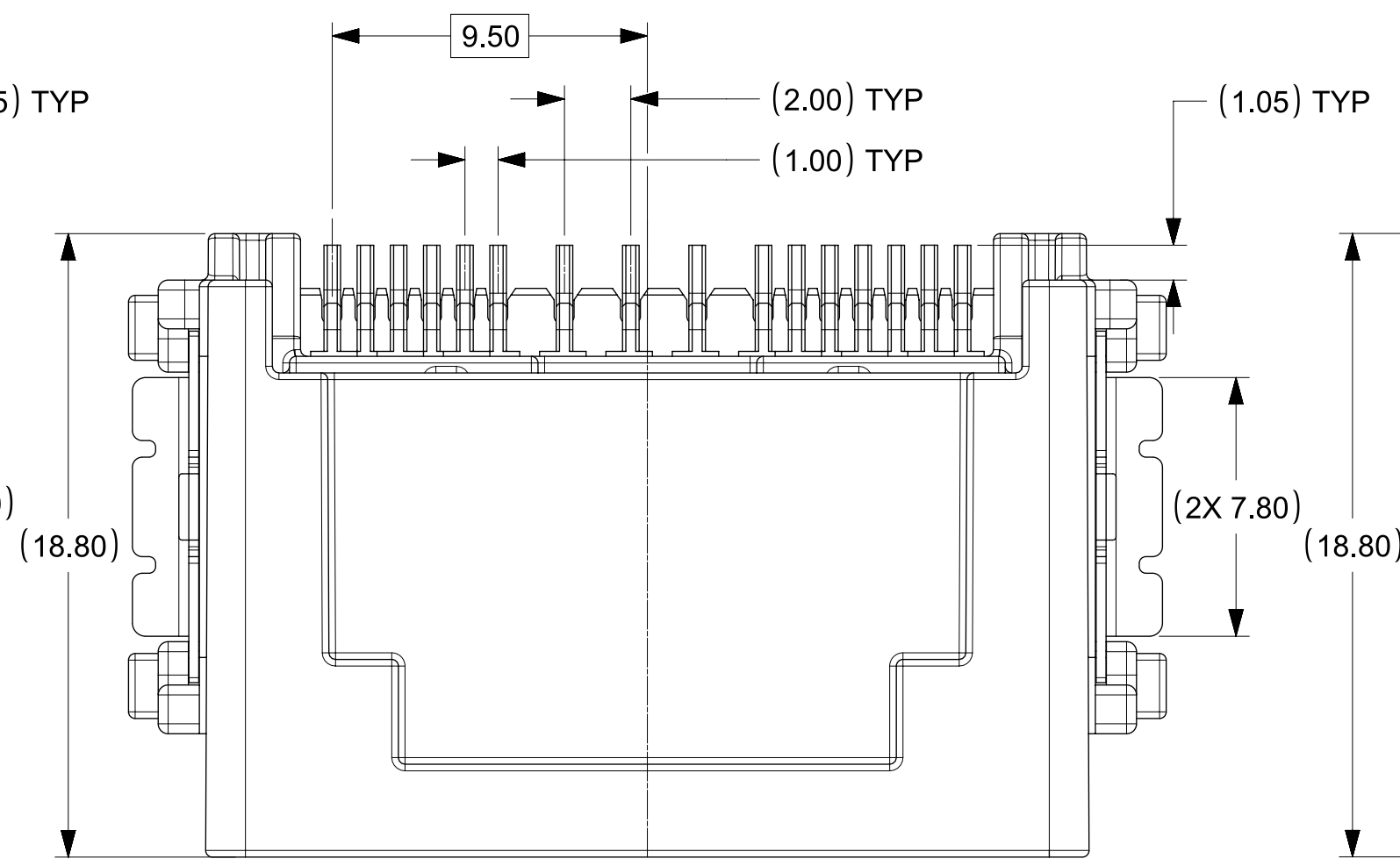
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: SD-34897-001
DOC TYPE: PSD
DOC PART: 000
REVISION: W12

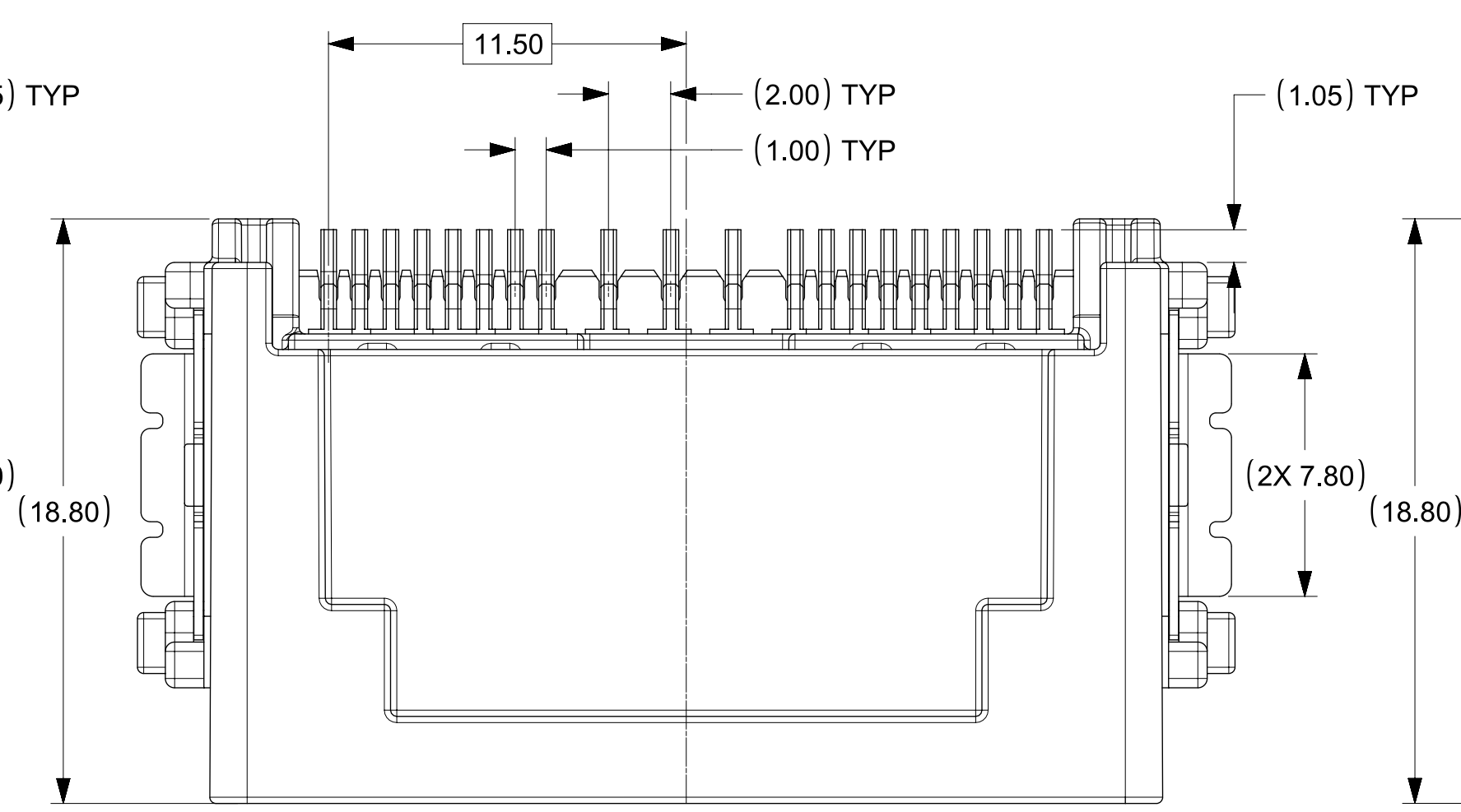
12 CKT SMT HEADER



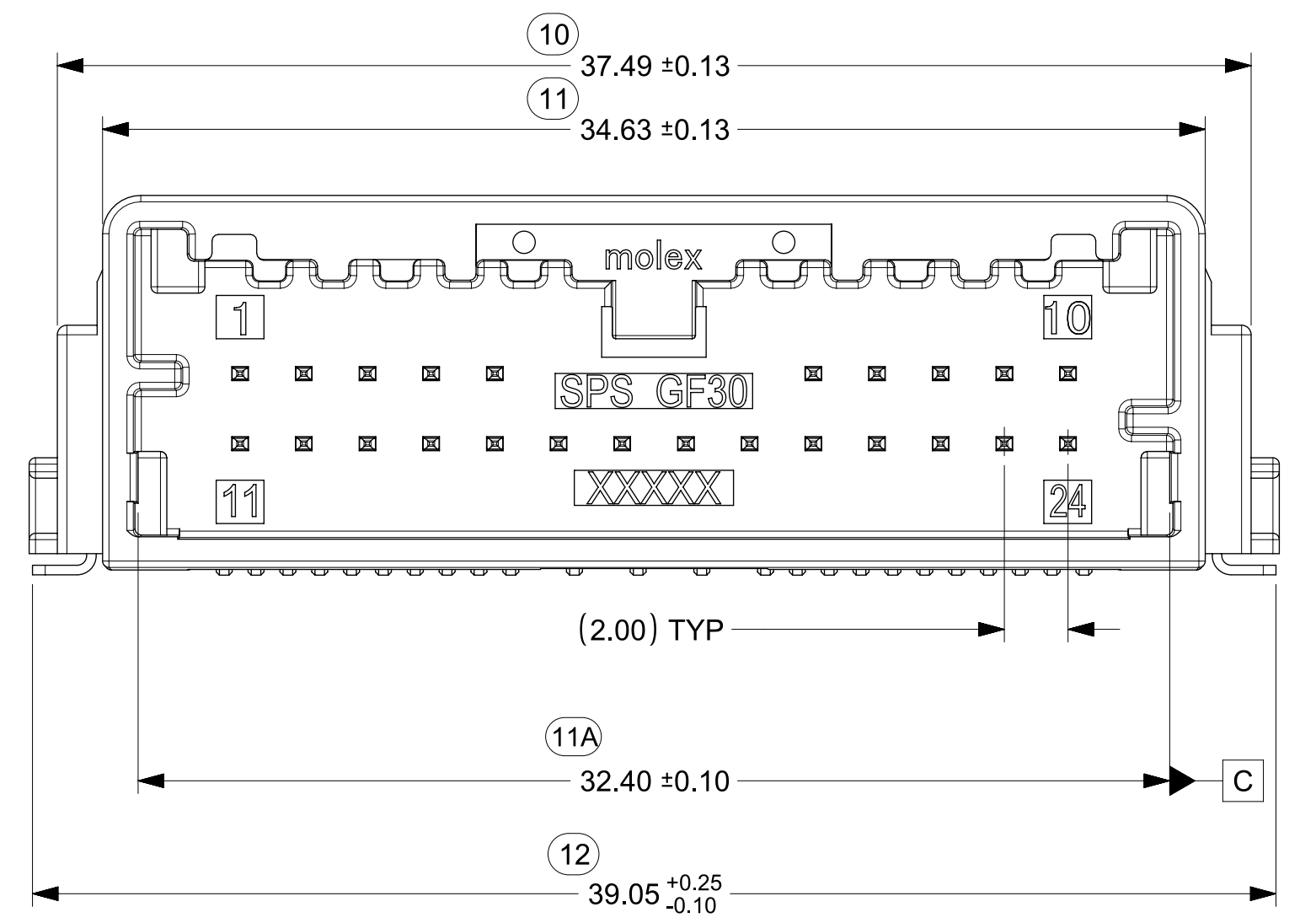
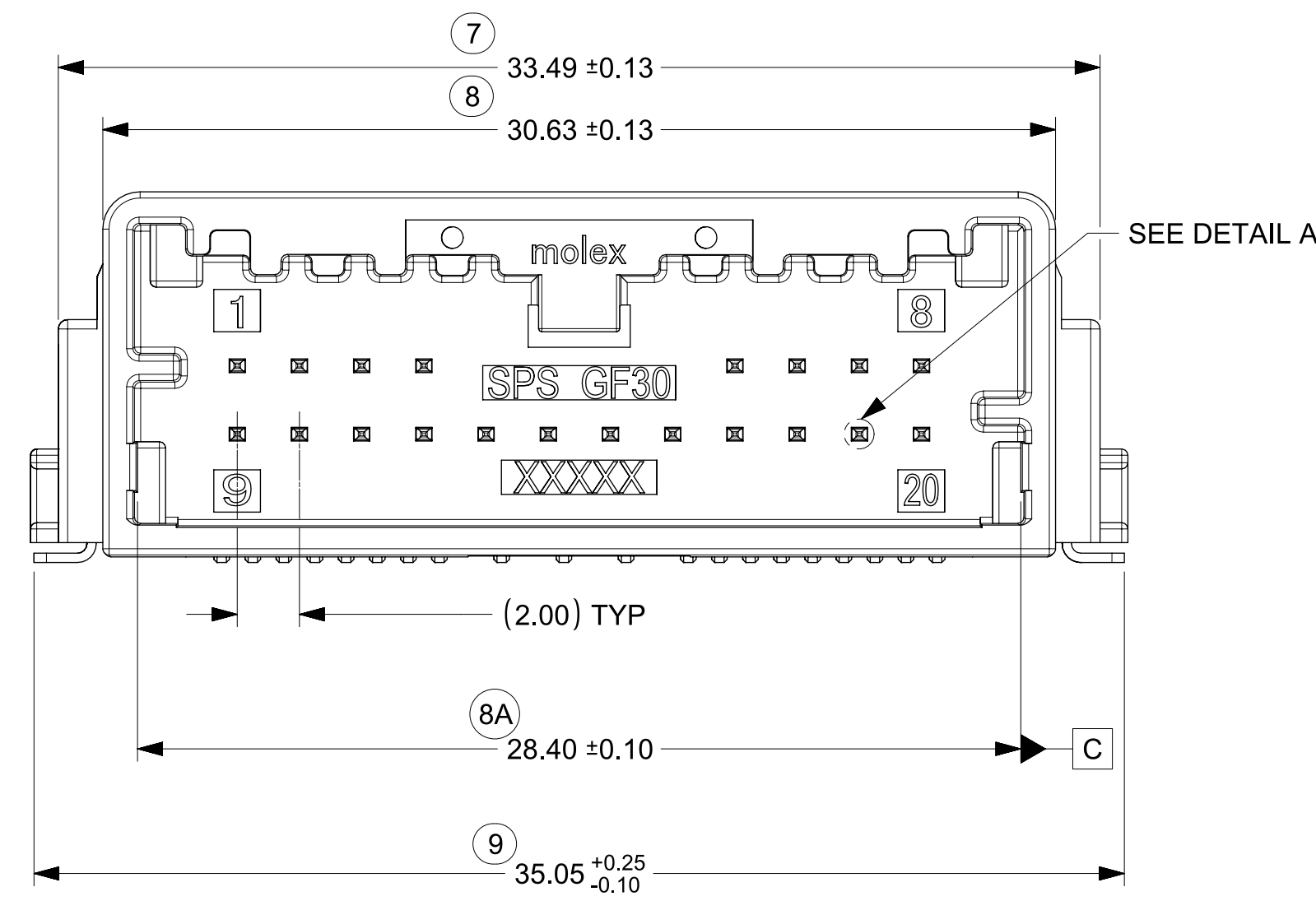
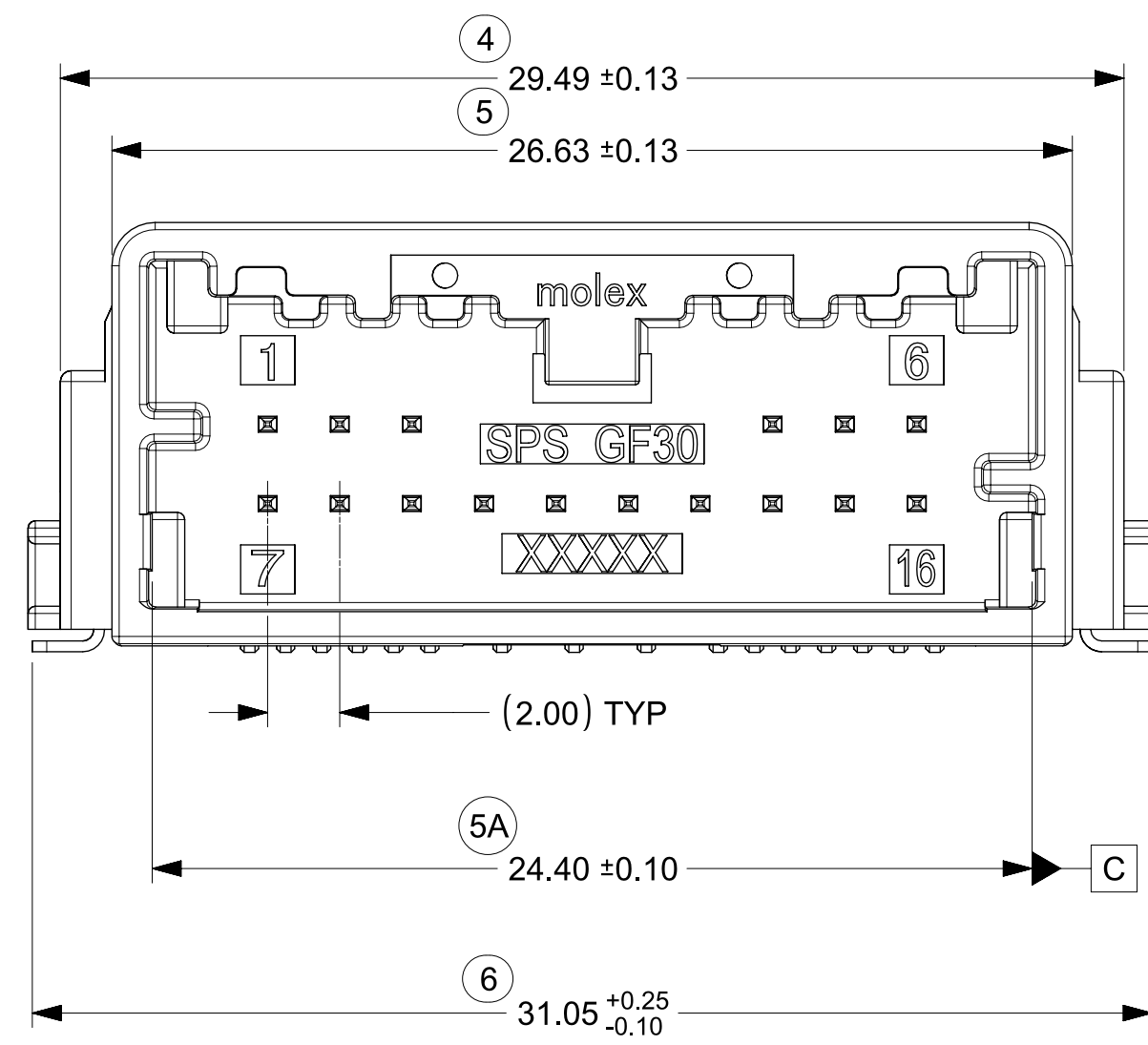
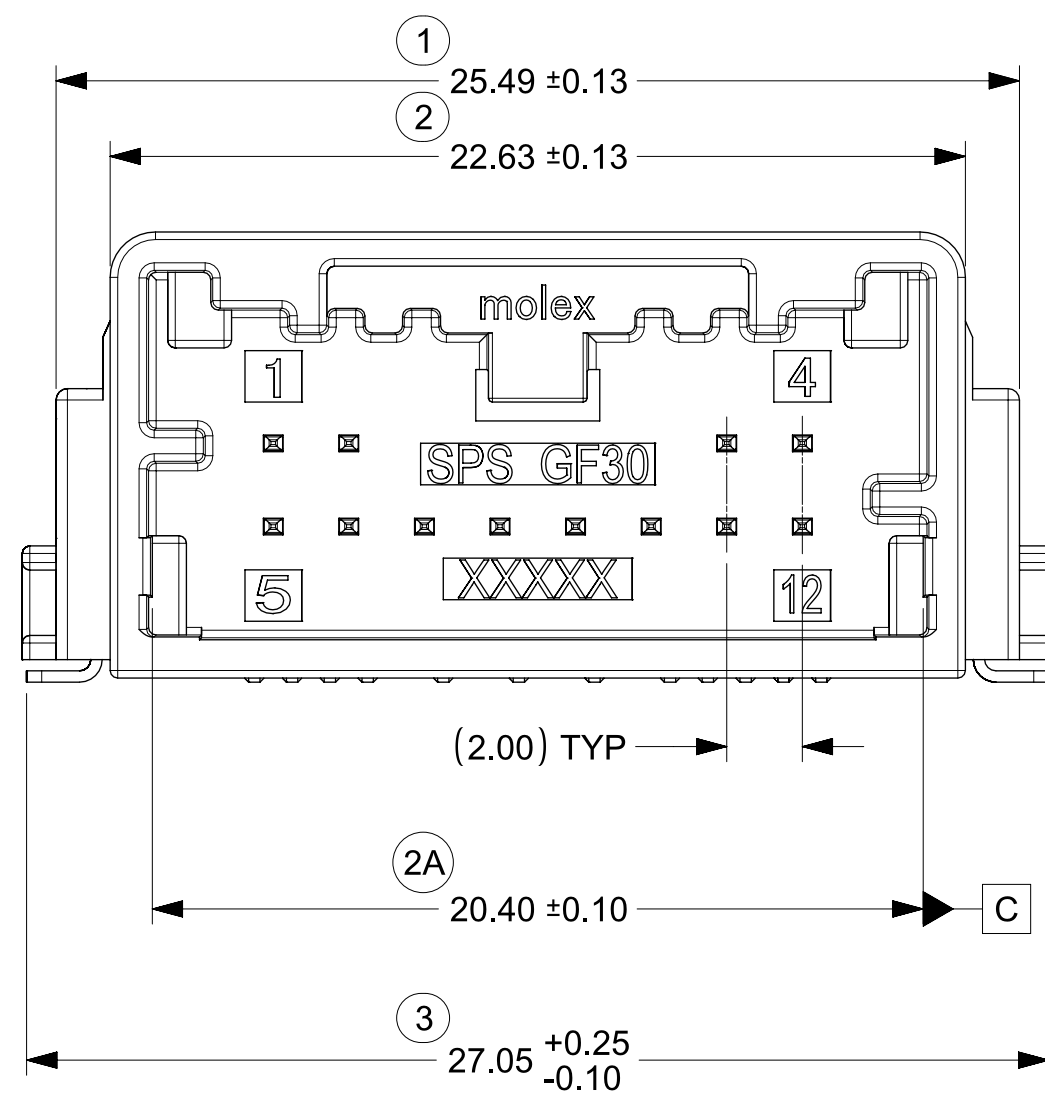
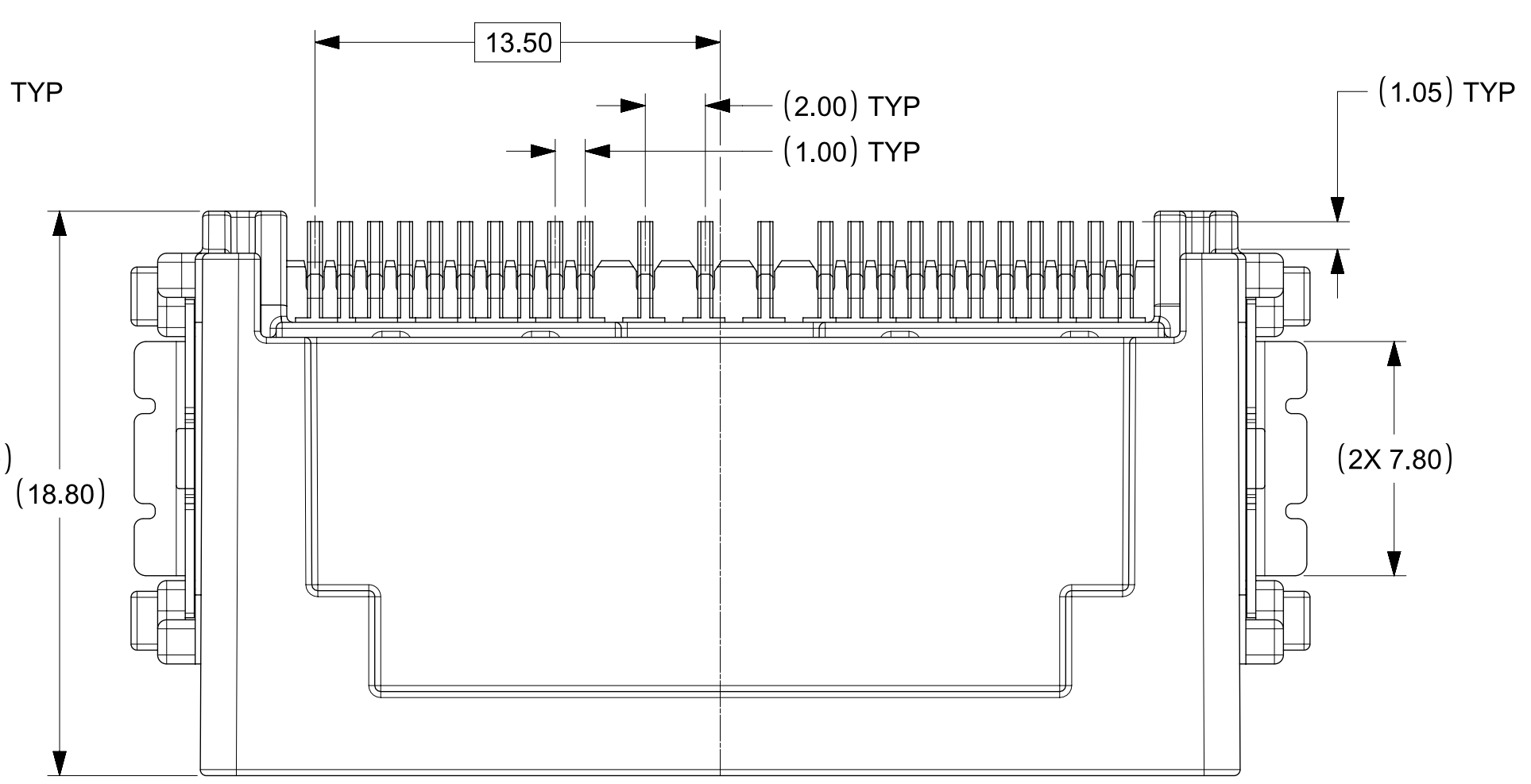
16 CKT SMT HEADER



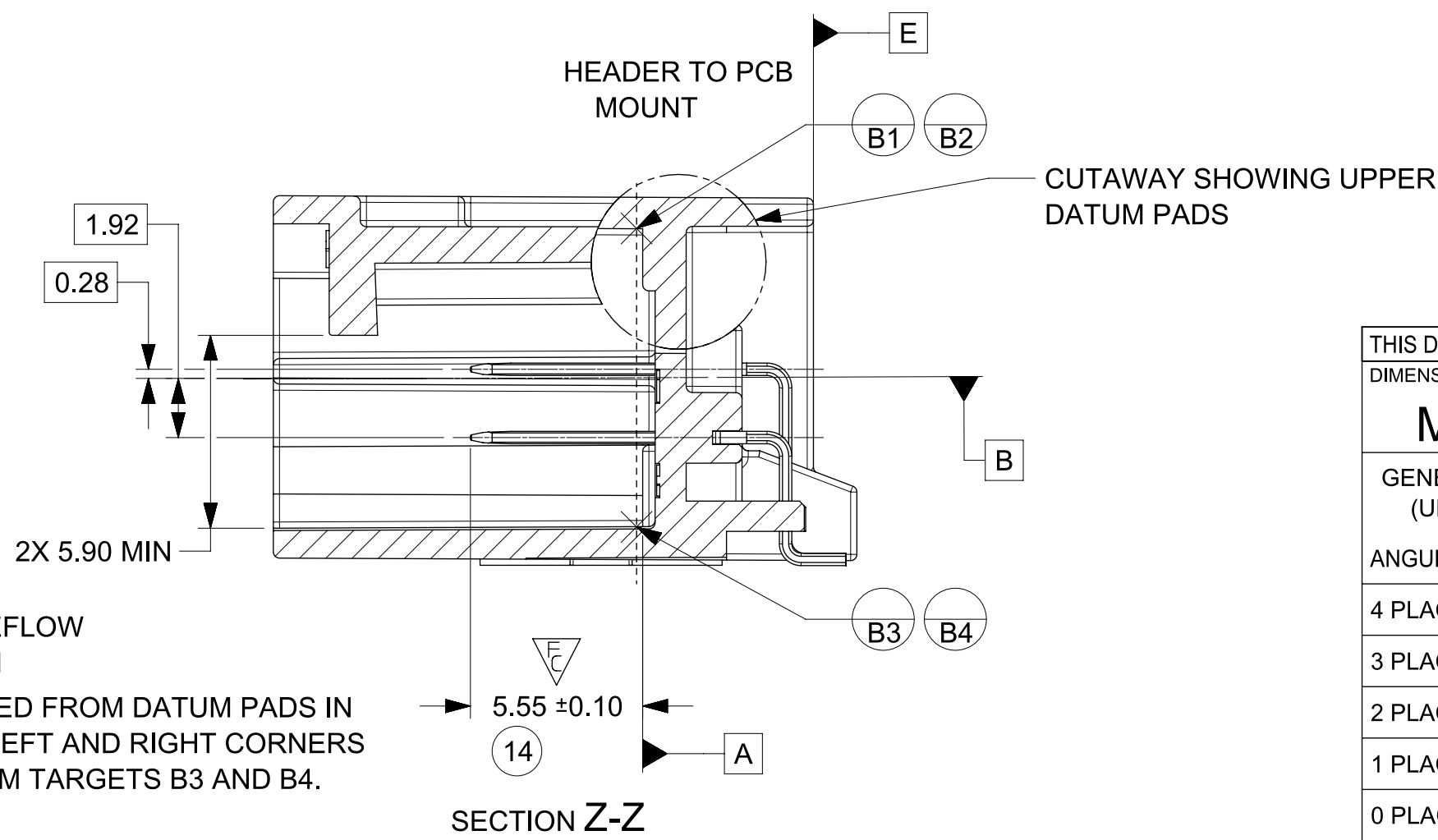
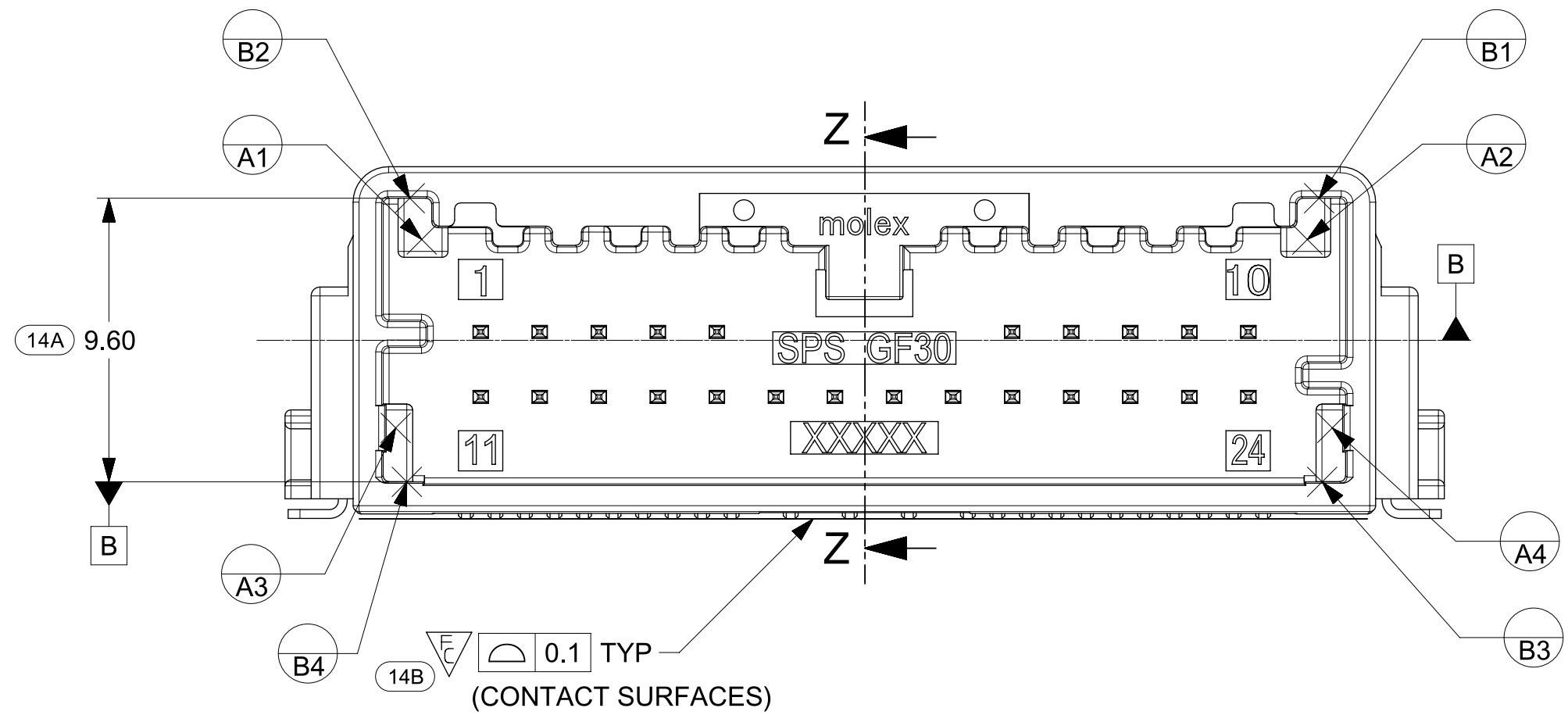
20 CKT SMT HEADER



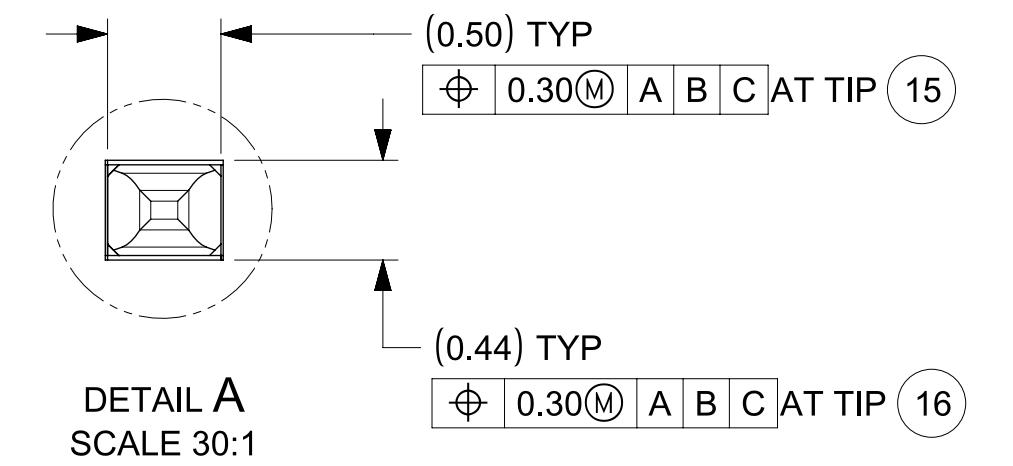
24 CKT SMT HEADER



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

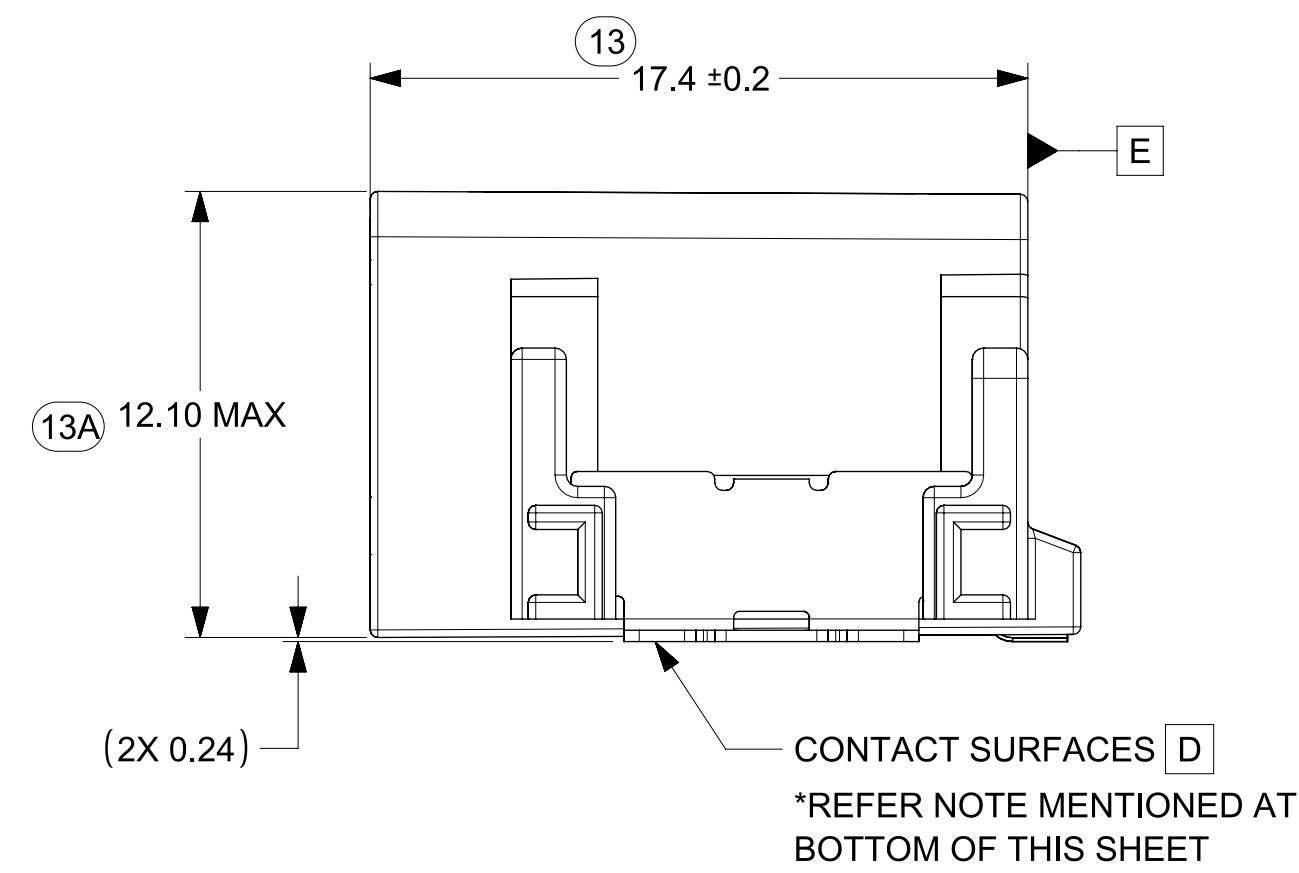


*POST REFLOW MINIMUM MEASURED FROM DATUM PADS IN LOWER LEFT AND RIGHT CORNERS TO DATUM TARGETS B3 AND B4.

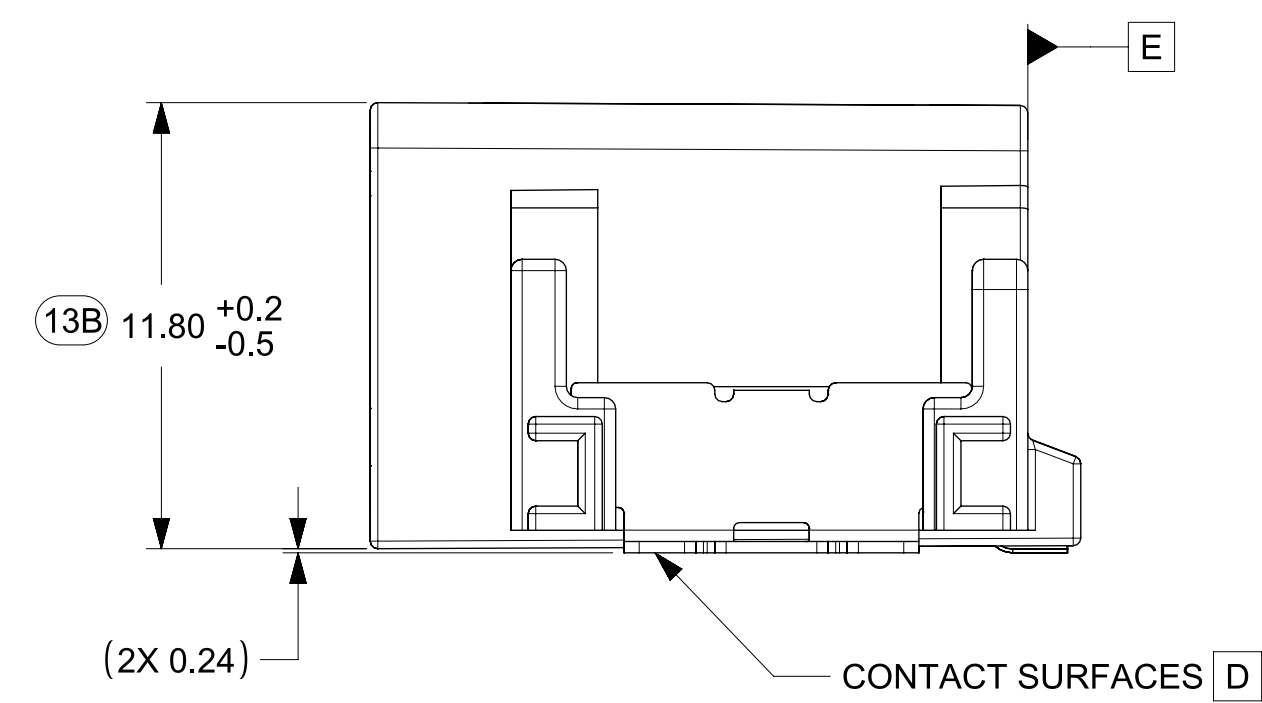


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DIMENSION UNITS		SCALE		CURRENT REV DESC: REFER TO REVISION COLUMN							
MM		5:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)											
ANGULAR TOL ± 1°											
4 PLACES		± 0		EC NO: CO-00026895		17-Jun-2025					
3 PLACES		± 0		DRWN: Lando Zhang		24-Jun-2025					
2 PLACES		± 0.1		CHK'D: Leo Li		25-Jun-2025					
1 PLACE		± 0.2		APPR: wolffw		INITIAL REVISION:					
0 PLACES		± 0		DRWN: RFC_PLMIMP		APPR:					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		
			D-SIZE		34897		GENERAL MARKET		CUSTOMER		
DOCUMENT STATUS				RELEASE DATE		DOC TYPE		DOC PART		REVISION	
Production				25-Jun-2025 19:03:47		PSD		000		W12	
SD-34897-001				GENERAL MARKET		SHEET NUMBER		2 OF 5			

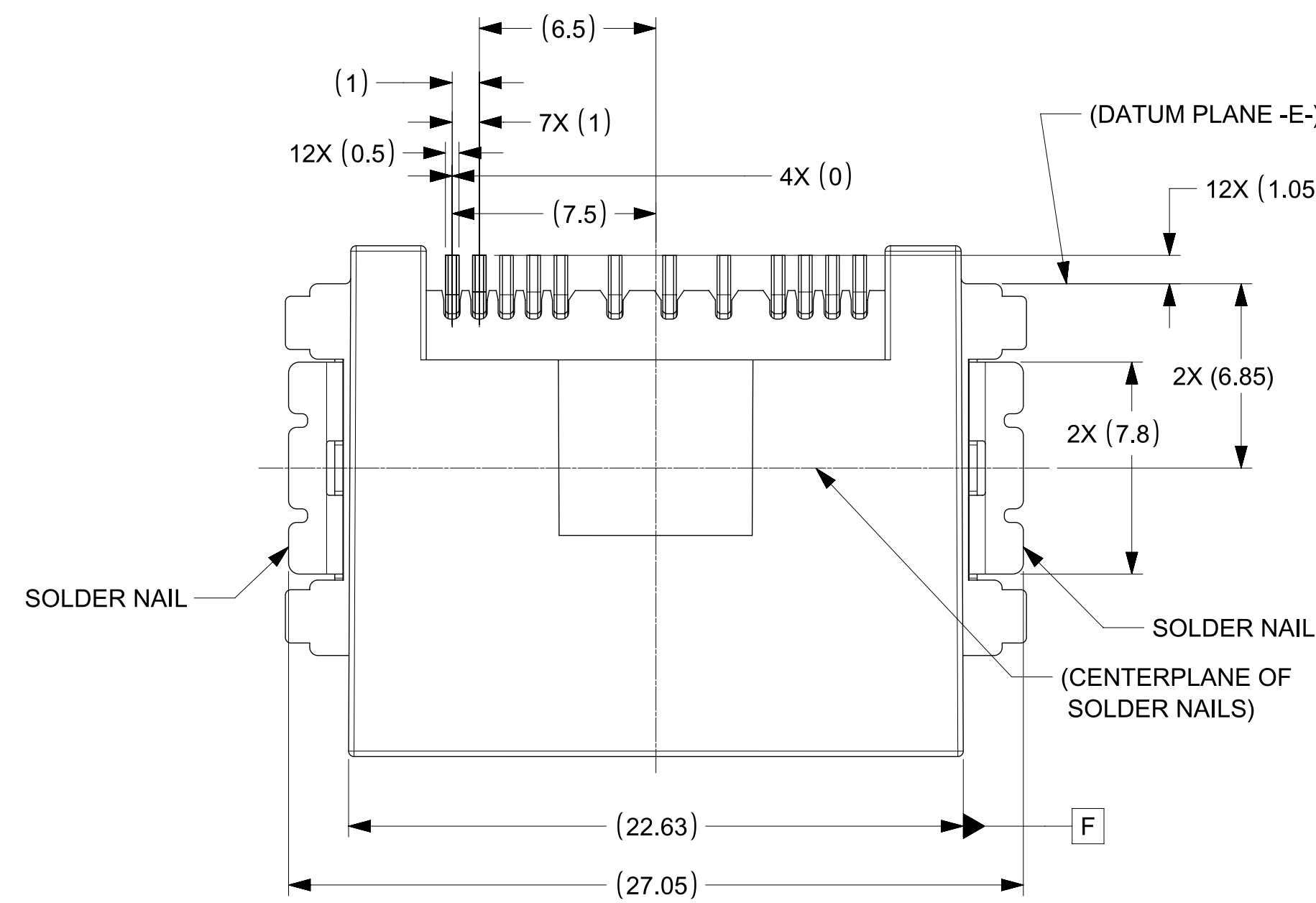
**BEFORE REFLOW SOLDERING
TEMPERATURE EXPOSURE**



**AFTER REFLOW SOLDERING
TEMPERATURE EXPOSURE**

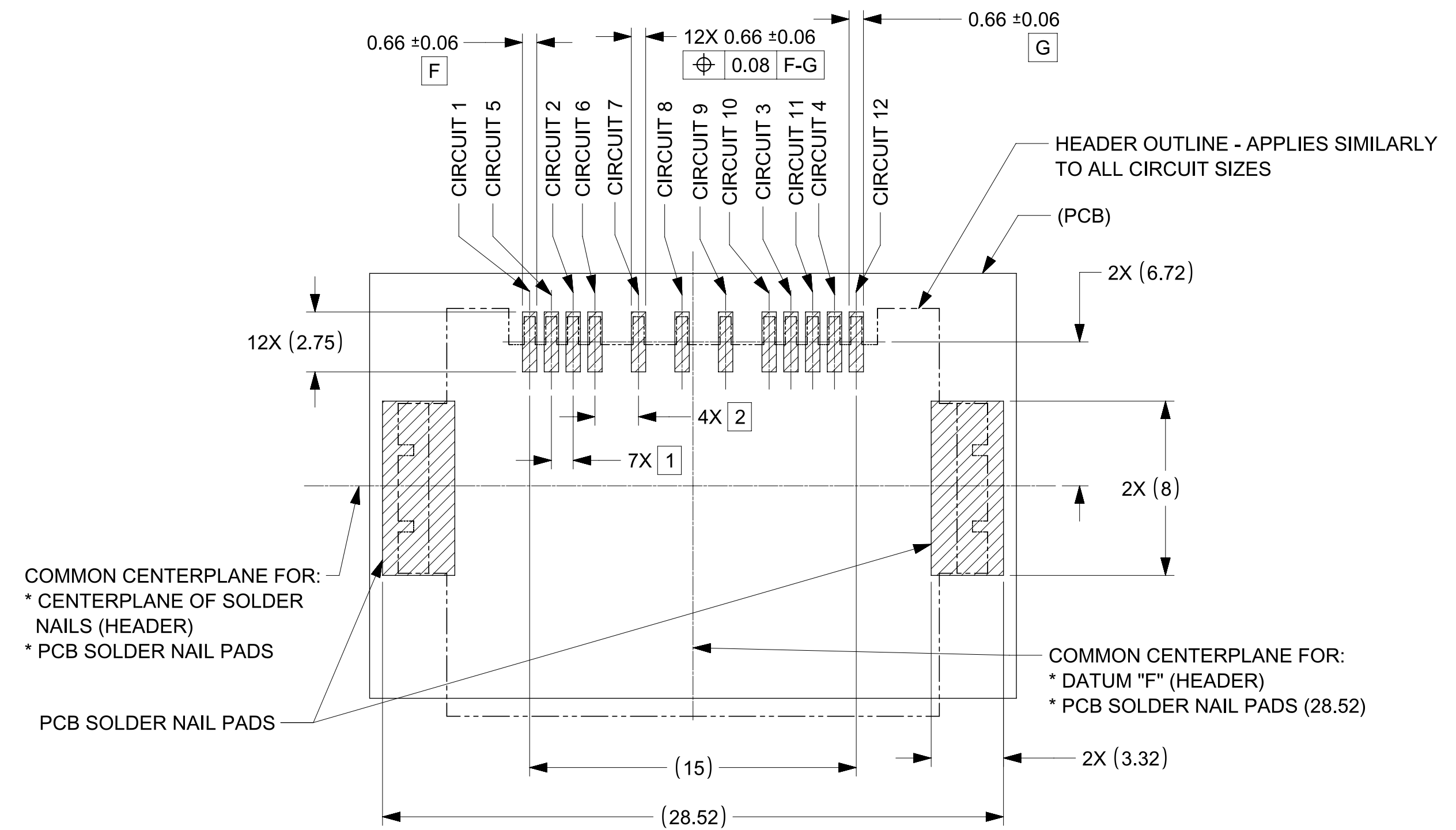


NOTE:
CONTACTS PER CKT:
12 CKT - 14 CONTACTS
16 CKT - 18 CONTACTS
20 CKT - 22 CONTACTS
24 CKT - 26 CONTACTS


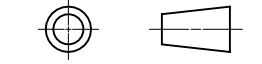


**12 CKT SMT HEADER (BOTTOM VIEW)
(OTHER CIRCUIT SIZES ARE SIMILAR)**

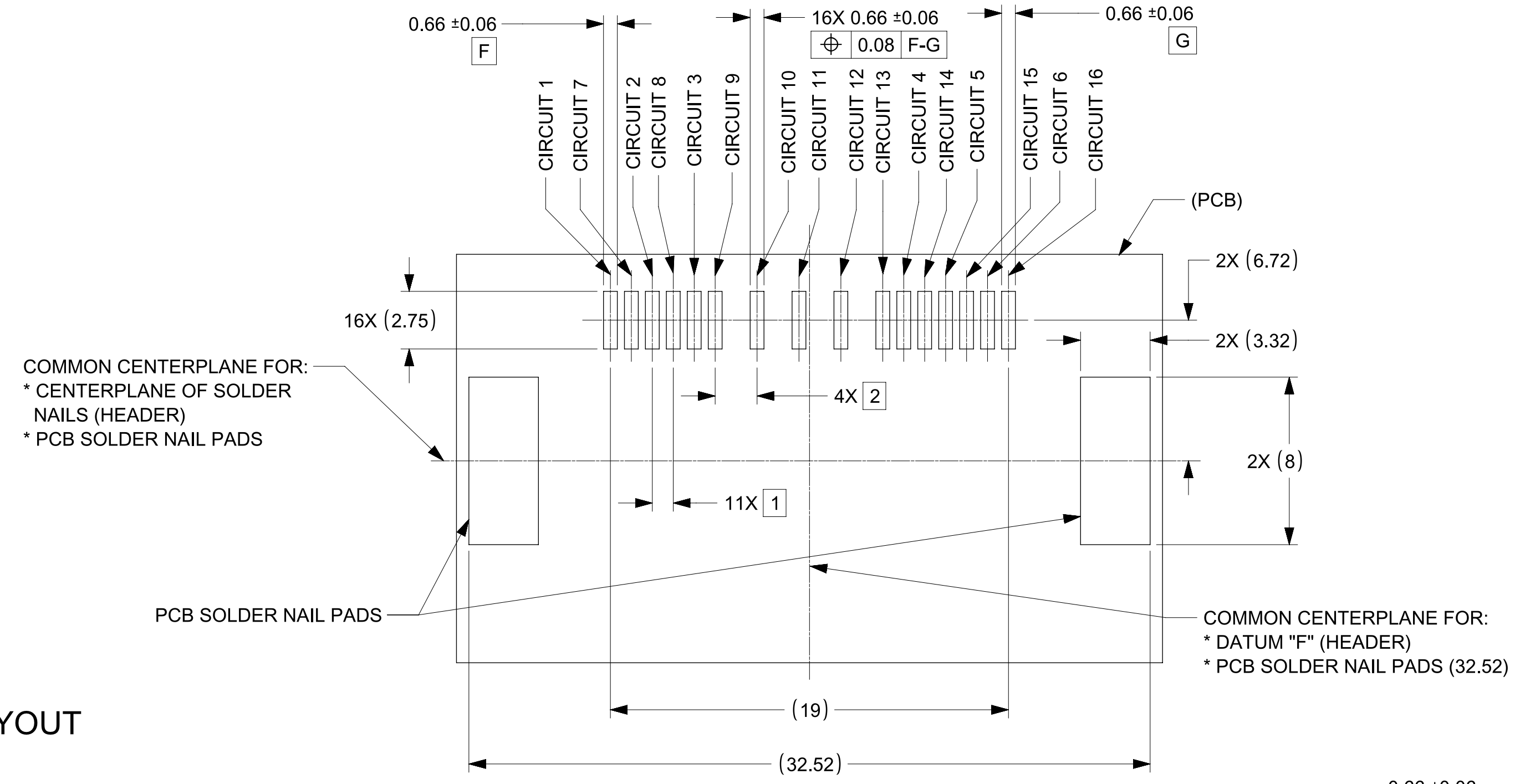
RECOMMENDED PCB LAYOUT:



12 CKT PCB LAYOUT

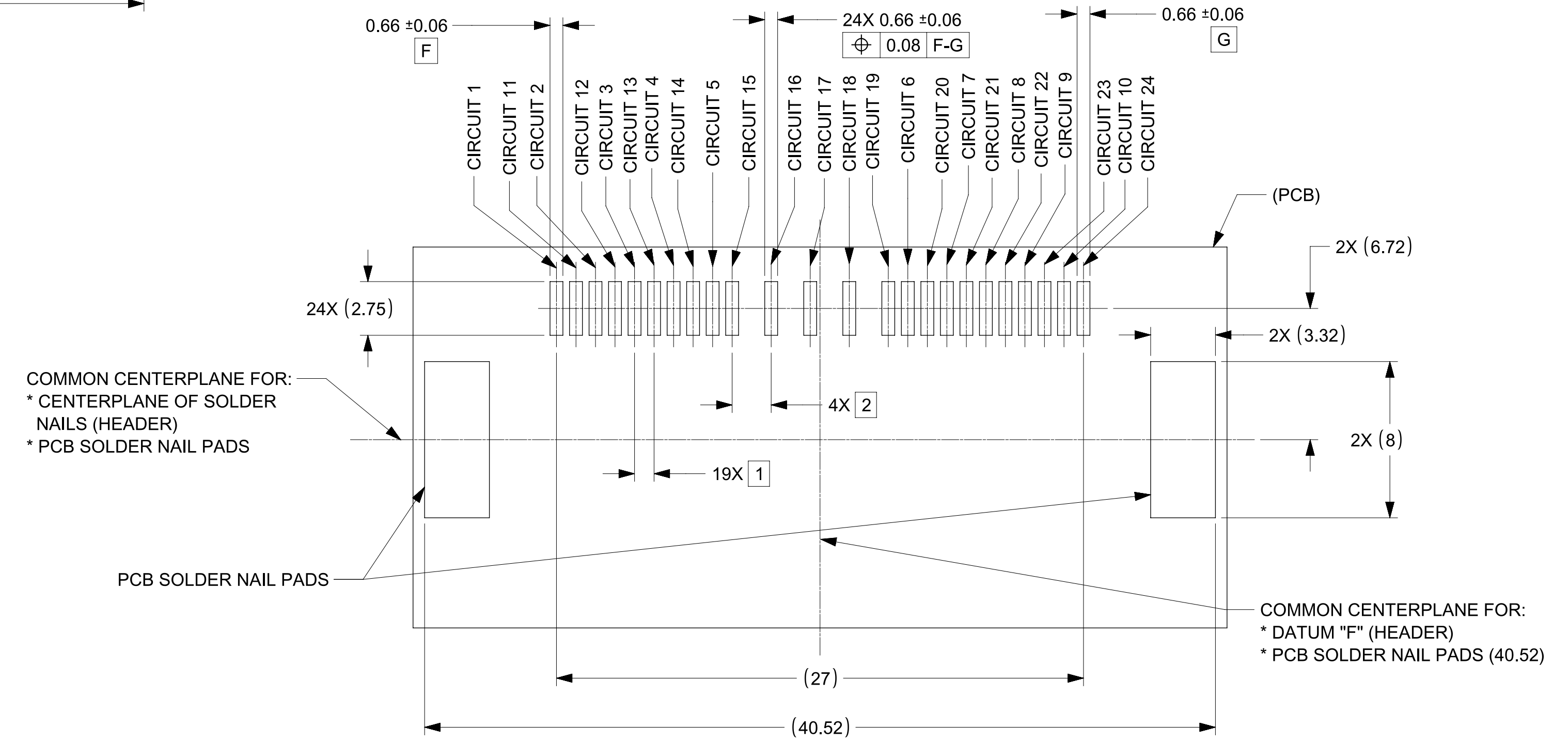
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS	SCALE	CURRENT REV DESC: REFER TO REVISION COLUMN							
MM	5:1	 MINI50 12-24CKT SMT HDR SALES DRAWING PRODUCT CUSTOMER DRAWING							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	± 1°								
4 PLACES	± 0								
3 PLACES	± 0								
2 PLACES	± 0.1								
1 PLACE	± 0.2	EC NO: CO-000026895	DRWN: Lando Zhang		17-Jun-2025			DOC TYPE	
0 PLACES	± 0	CHK'D: Leo Li	APPR: wolffw		24-Jun-2025			DOC PART	REVISION
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		
			D-SIZE	34897	SD-34897-001	GENERAL MARKET	PSD	000	W12
DOCUMENT STATUS	Production	RELEASE DATE	25-Jun-2025	19:03:47					

16 CKT PCB LAYOUT

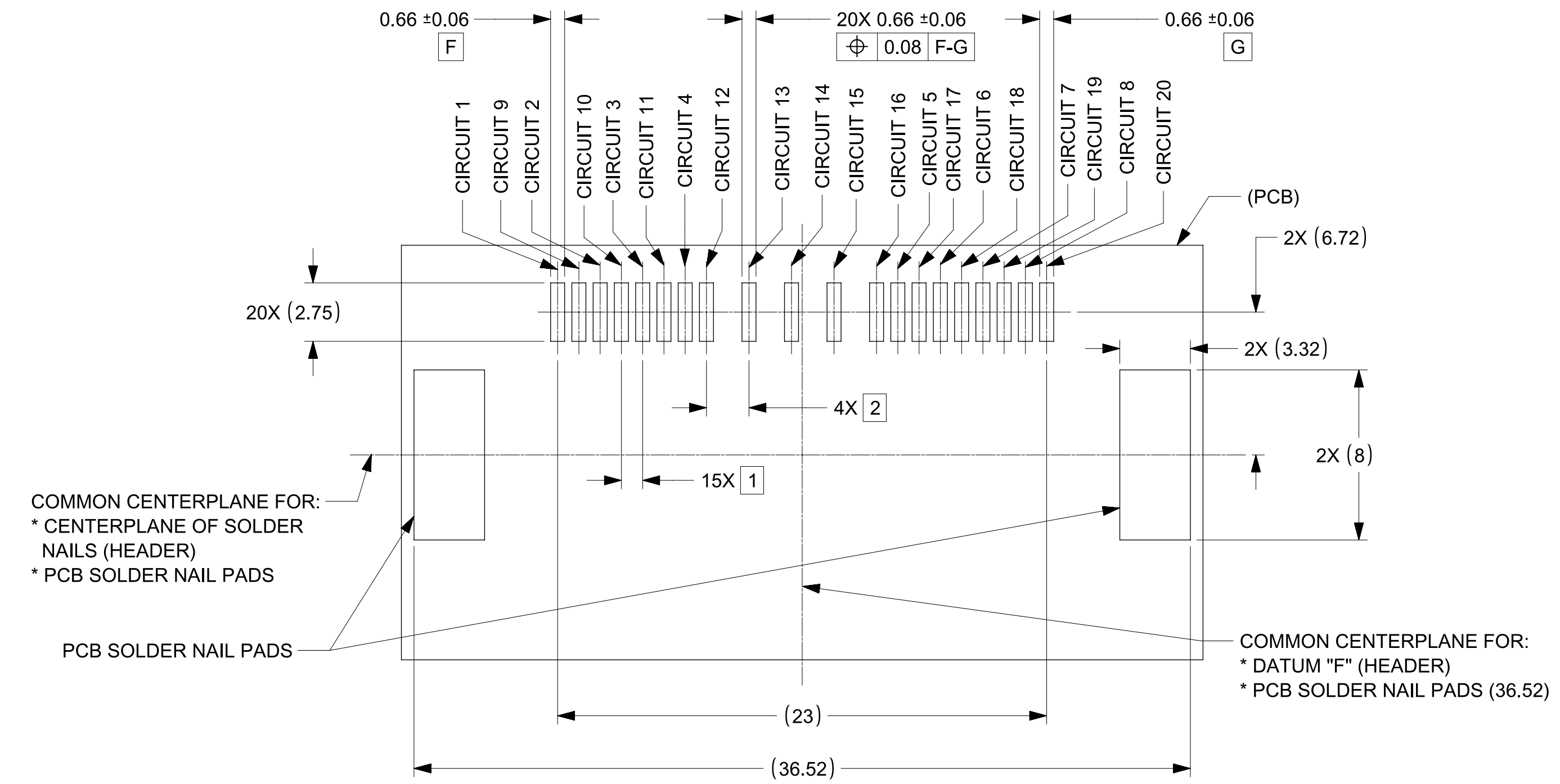


RECOMMENDED PCB LAYOUT:

24 CKT PCB LAYOUT



20 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: REFER TO REVISION COLUMN					
MM		5:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL		± 1°		EC NO: CO-000026895					
4 PLACES		± 0		DRWN: Lando Zhang			17-Jun-2025		
3 PLACES		± 0		CHK'D: Leo Li			24-Jun-2025		
2 PLACES		± 0.1		APPR: wolffw			25-Jun-2025		
1 PLACE		± 0.2		INITIAL REVISION:					
0 PLACES		± 0		DRWN: RFC_PLMIMP					
				APPR:					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES	
				D-SIZE		34897			
				MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				SD-34897-001		GENERAL MARKET		4 OF 5	


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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS MM		SCALE 1:1		CURRENT REV DESC: REFER TO REVISION COLUMN					
GENERAL TOLERANCES (UNLESS SPECIFIED)				 MINI50 12-24CKT SMT HDR SALES DRAWING PRODUCT CUSTOMER DRAWING EC NO: CO-000026895 DRWN: Lando Zhang 17-Jun-2025 CHK'D: Leo Li 24-Jun-2025 APPR: wolffw 25-Jun-2025 INITIAL REVISION: DRWN: RFC_PLMIMP APPR:					
ANGULAR TOL ± 1°		4 PLACES ± 0							
3 PLACES ± 0		2 PLACES ± 0.1							
1 PLACE ± 0.2		0 PLACES ± 0							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION							
				MATERIAL NUMBER		CUSTOMER GENERAL MARKET		SHEET NUMBER 5 OF 5	