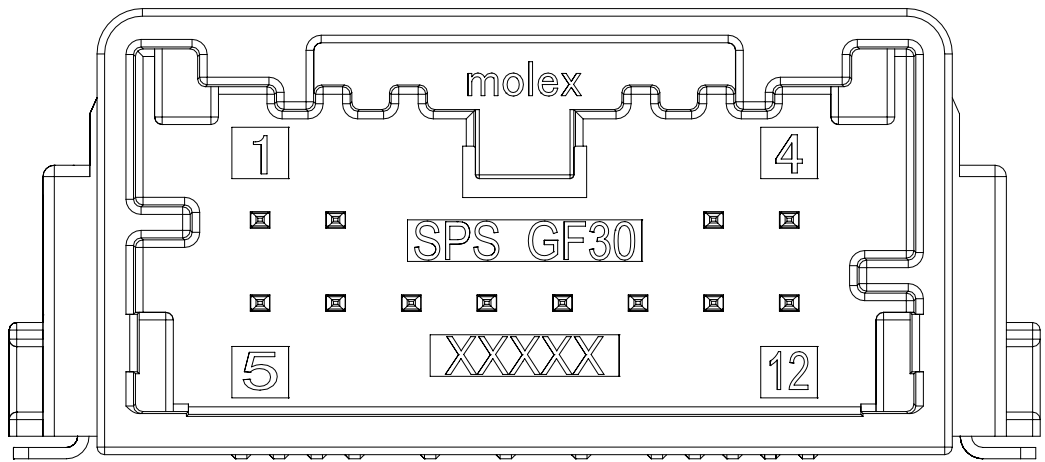
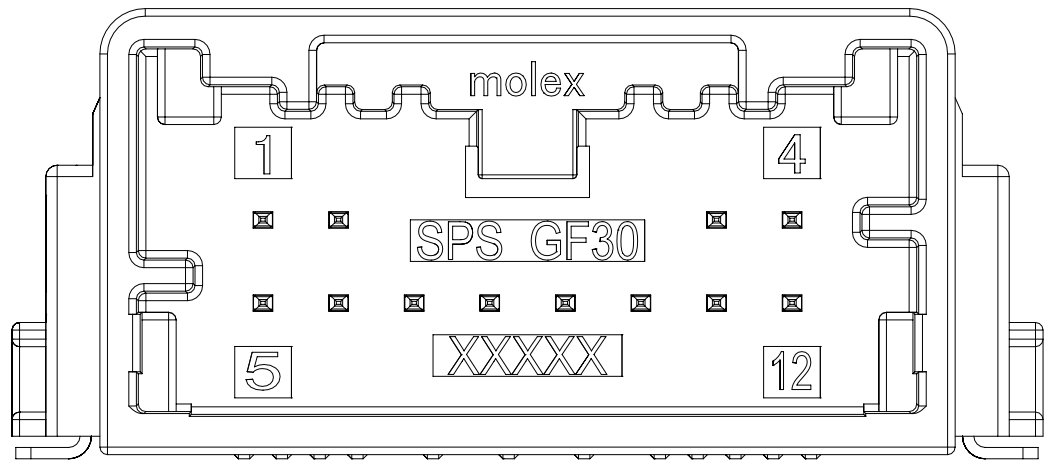
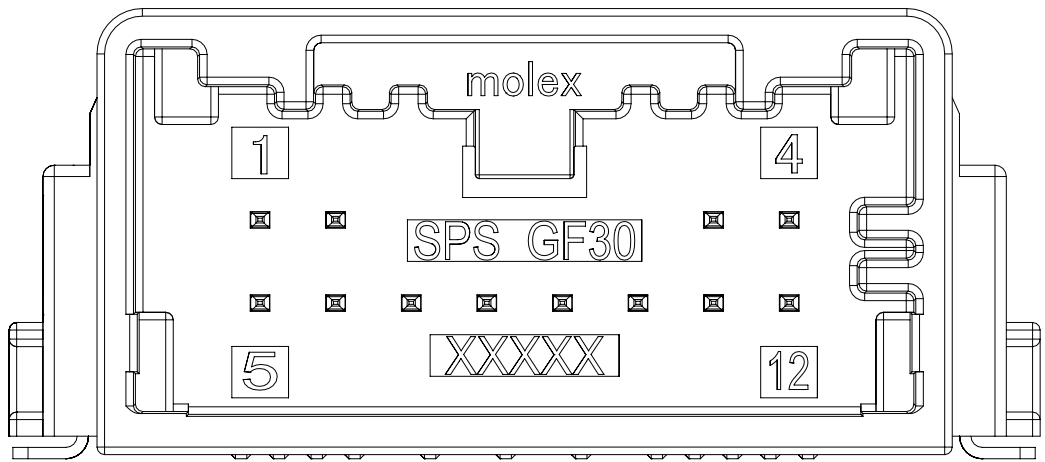




12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION A



12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION B



12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION C

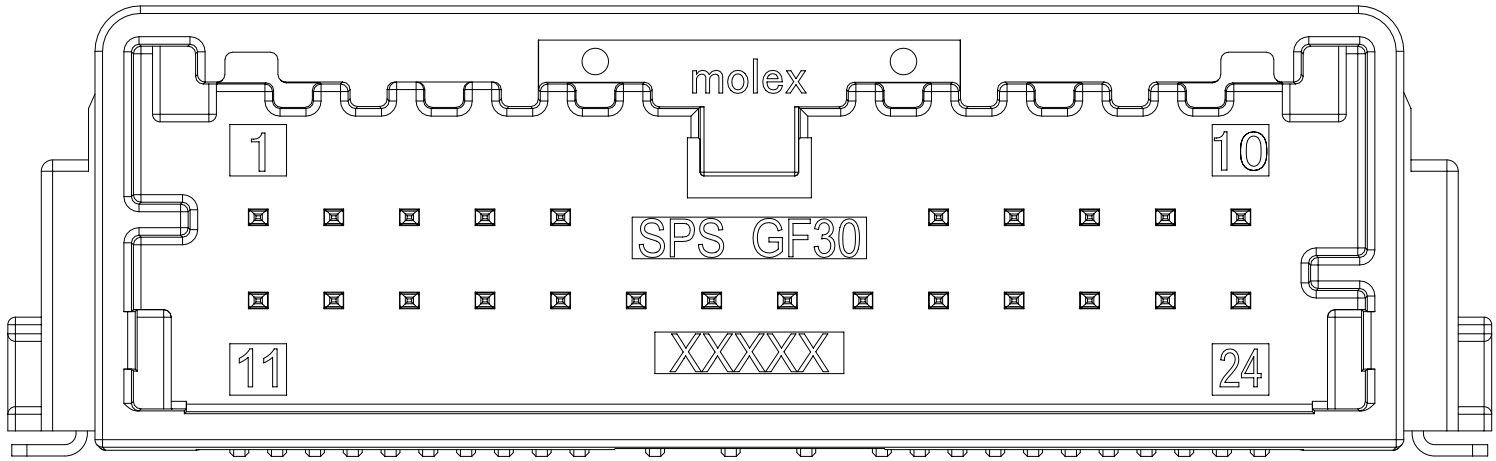
NOTES: VALID UNLESS OTHERWISE SPECIFIED

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)

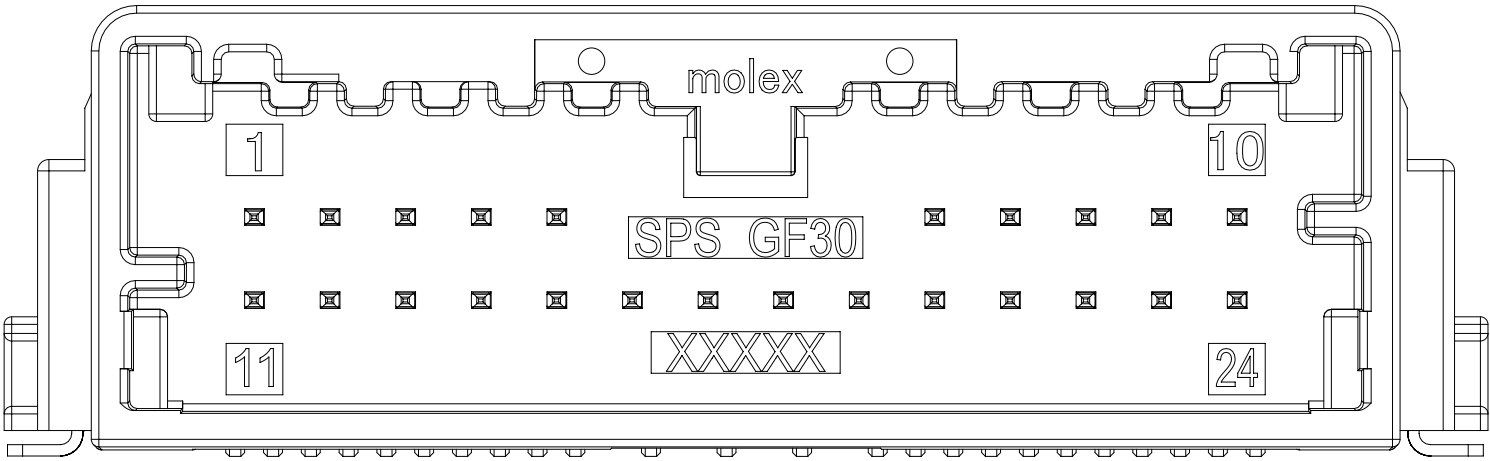
2. DESIGN - MATERIALS:
- a. SHROUD (PLASTIC HOUSING): SPS 30% GF, 25% REGRIND MAX PER WEIGHT
 - b. BLADES:
BASE METAL: C26000 BRASS
PLATING REQUIREMENTS:
TIN:
UNDERPLATING:
OVERALL NICKEL:
OVERPLATING:
OVERALL TIN:

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

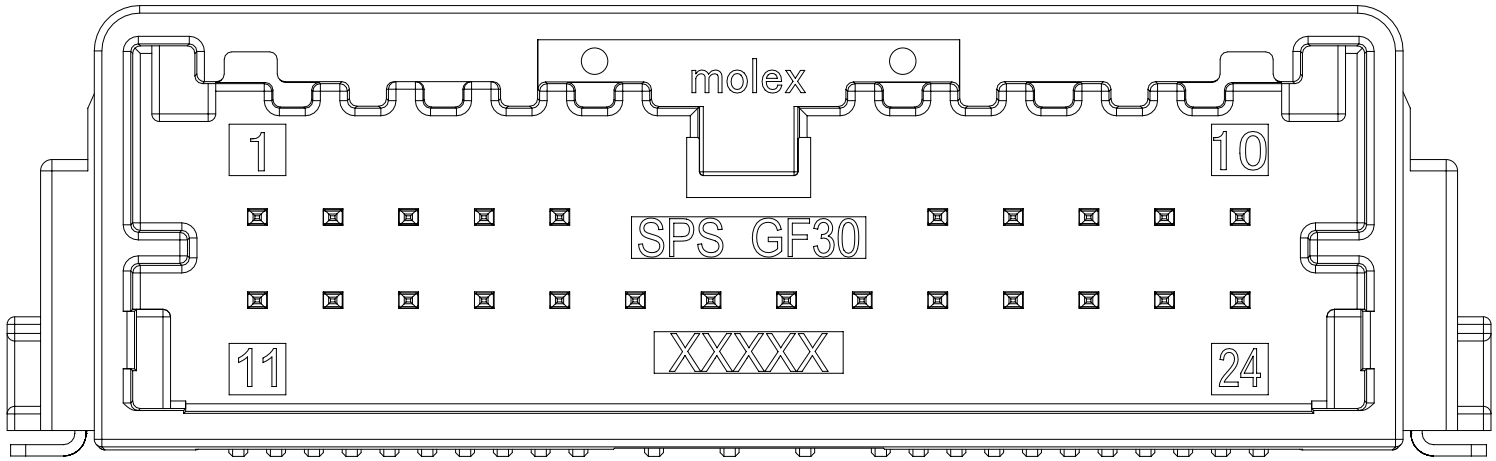
24CKT POLARIZATION OPTIONS SHOWN BELOW
ARE REPRESENTATIVE FOR 16 AND 20CKT



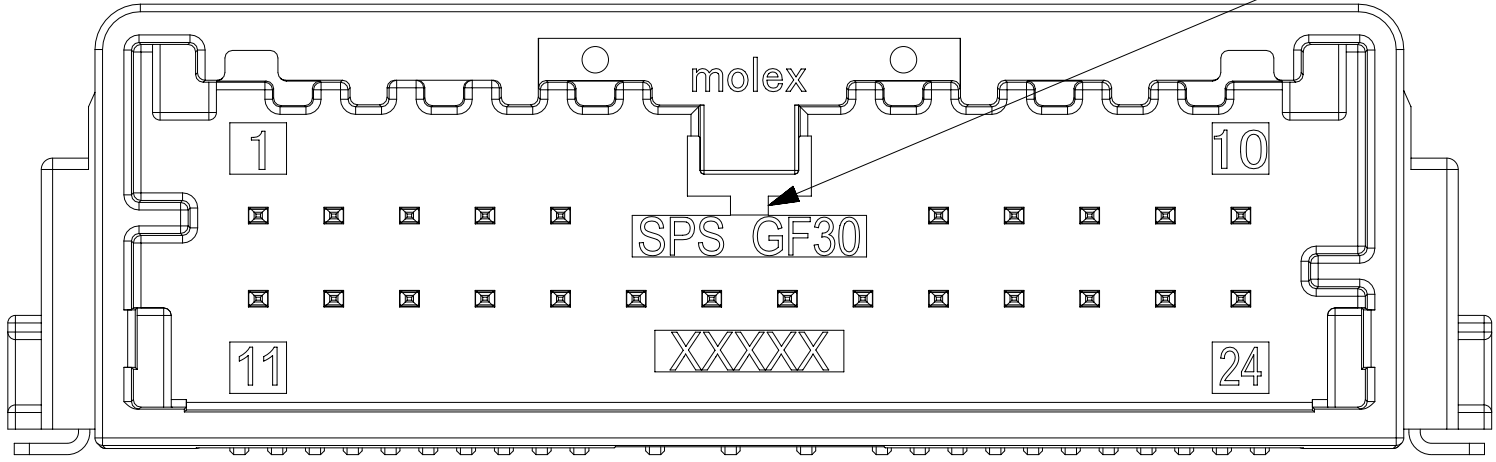
24 CIRCUIT SMT HEADER
POLARIZATION OPTION A



24 CIRCUIT SMT HEADER
POLARIZATION OPTION B



24 CIRCUIT SMT HEADER
POLARIZATION OPTION C

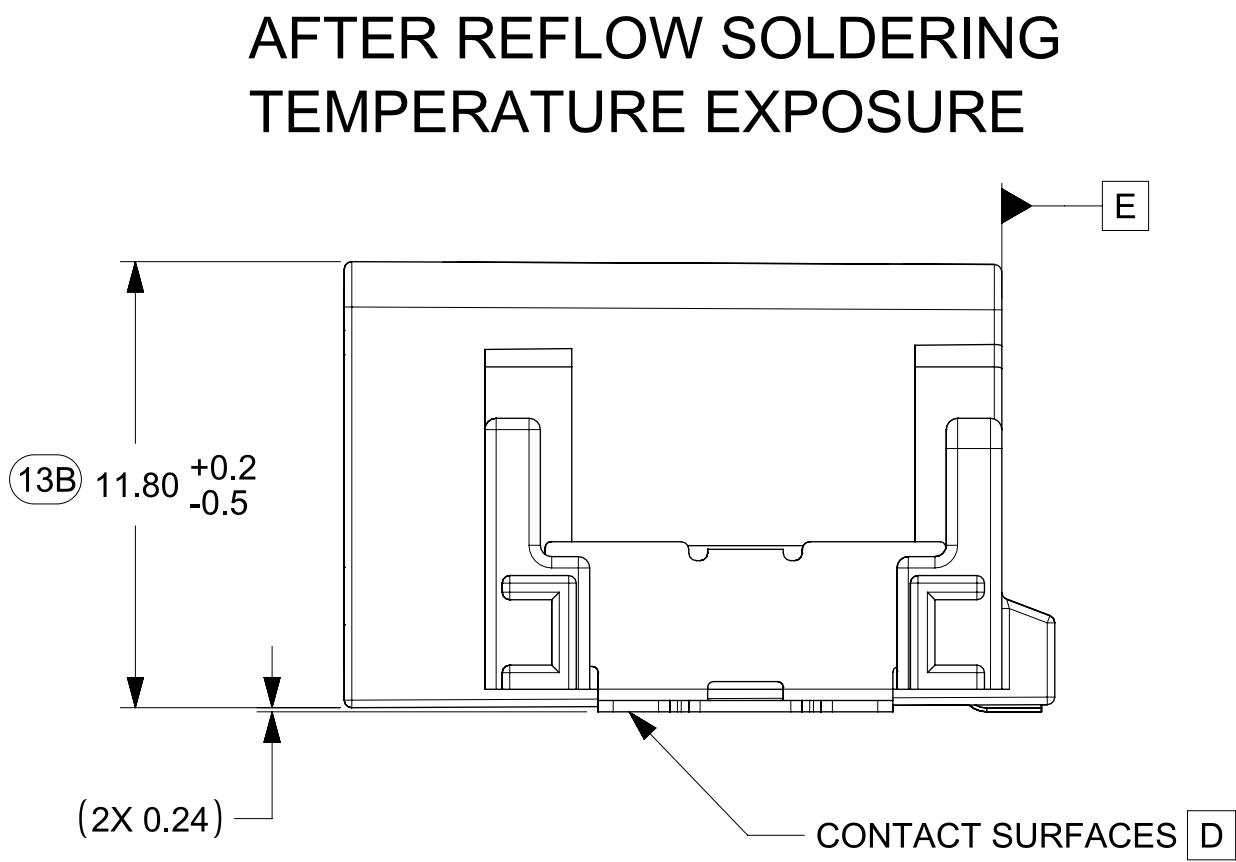
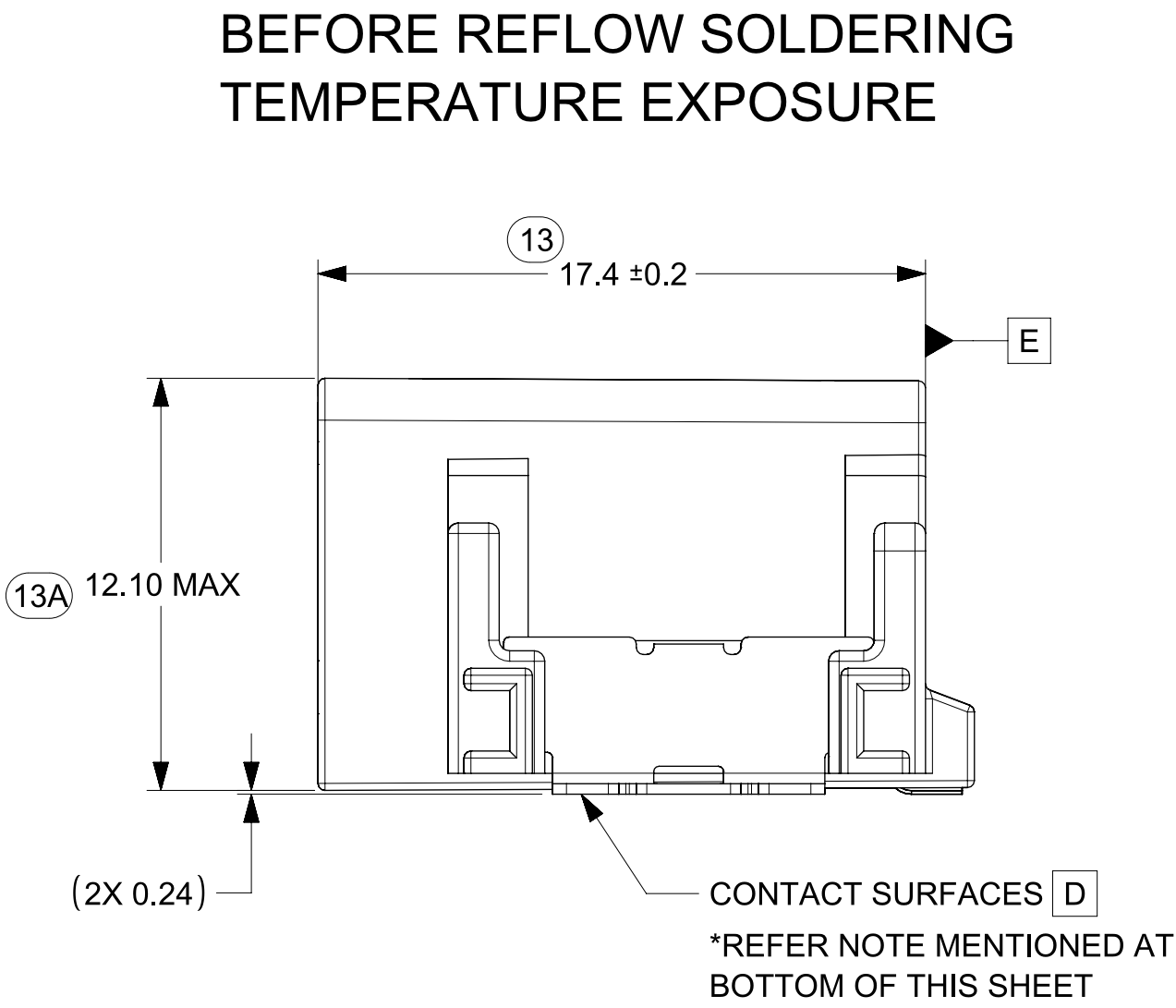


V0 IDENTIFIER
APPLIES FOR 12-24CKT

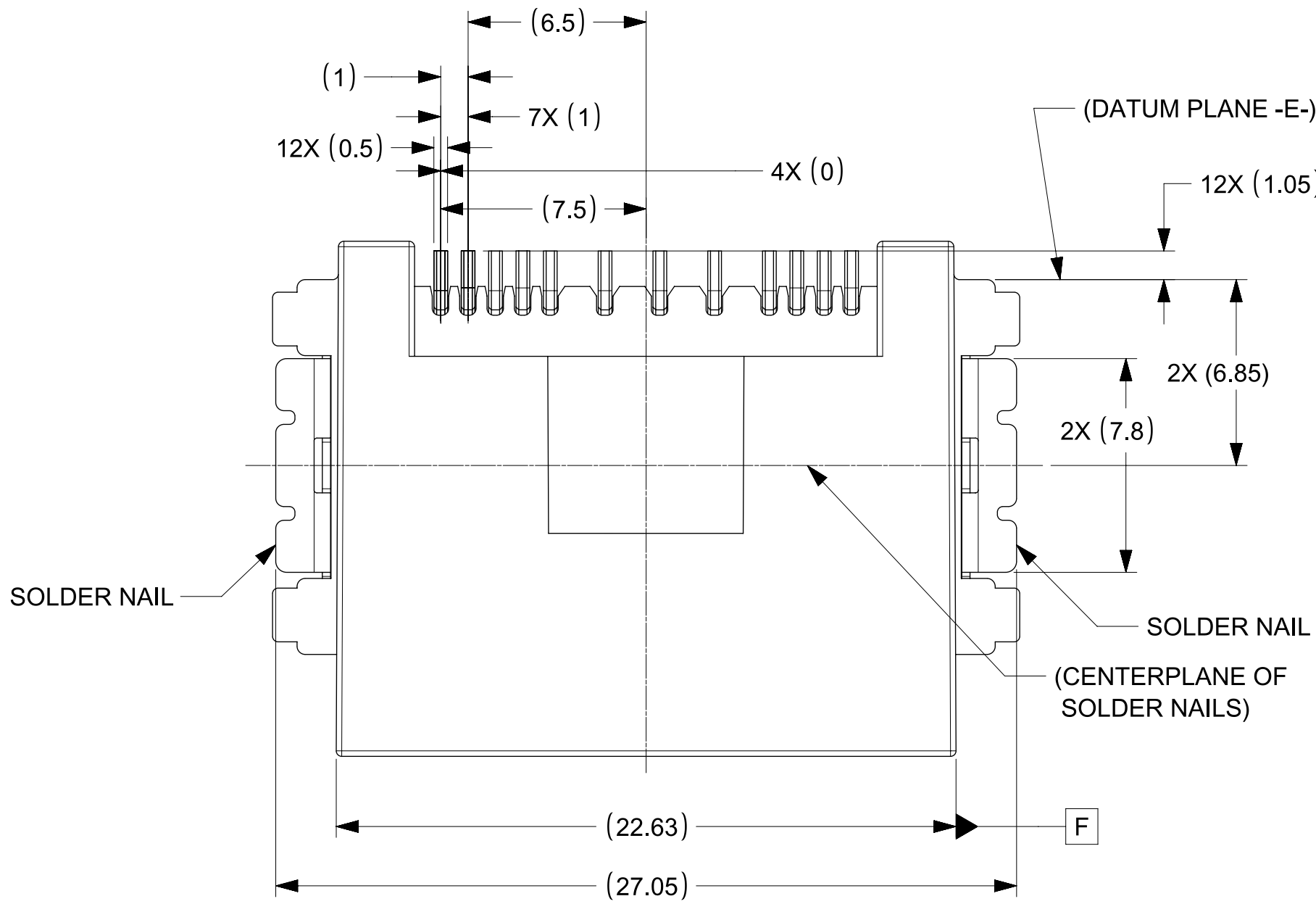
W12	SHEET 5: REMOVED THE DETAIL PLATING INFORMATION FROM THE SD-DRAWING
W11	SHEET 5: REMOVED AVAILABILITY AND MATING COLUMNS ON BOM
W10	SHEET 5: ADDED MATING COMPONENT NOTE
W9	SHEET 2: ADDED BALLOONS 14A, 14B
W8	SHEET 1: ADDED V0 VIEW
W7	SHEET 5: REORGANIZED BOM TABLE
W6	DRAWING REMASTERED
W5	SHEET 1: UPDATED NOTE 2b BASE METAL
W4	SHEET 1: ADDED NOTE 3g
W3	SHEET 2: SOLDERNAIL POCKET DIMS UPDATED
W2	SHEET 3: ADDED BALLOONS 13A & 13B
W1	SHEET 5: ADDED V0 TIN PART NUMBERS TO BOM
W0	UPDATED INSPECTION LOG, CHANGED DESCRIPTION, ADDED BASIC DIMS TO SHEET 2
W0	DELETED 34897-6164
W0	ADDED DIM BALLOON 15 & 16
W0	ADDED 16CKT GOLD DEPOPULATED POL A P/N
W0	NX REMASTERING
REV	DESCRIPTION

INSPECTION BALLON NUMBER LOG		W7 UPDATED INSPECTION LOG, CHANGED DESCRIPTION, ADDED BASIC DIMS TO SHEET 2						
PER DRAWING REVISION: W12								
LAST BALLOON USED: 16								
ADDED BALLOON NUMBERS: 1A, 4A, 7A, 10A								
REMOVED BALLOON NUMBERS:								
		W6 DELETED 34897-6164						
		W5 ADDED DIM BALLOON 15 & 16						
		W4 ADDED 16CKT GOLD DEPOPULATED POL A P/N						
		W3 NX REMASTERING						
		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		mo lex				
MM	5:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)								
ANGULAR TOL	±			1 °	MINI50 12-24CKT SMT HDR SALES DRAWING			
4 PLACES	±			0				
3 PLACES	±	0						
2 PLACES	±	0.1						
1 PLACE	±	0.2						
0 PLACES	±	0	EC NO: CO-000026895		17-Jun-2025			
DRWN: Lando Zhang			24-Jun-2025		25-Jun-2025			
CHK'D: Leo Li			25-Jun-2025		PRODUCT CUSTOMER DRAWING			
APPR: wolffw			INITIAL REVISION:		DOCUMENT NUMBER			
DRWN: RFC_PLMIMP			SD-34897-001		DOC TYPE	DOC PART		
APPR:			PSD		000	W12		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
		D-SIZE	34897	GENERAL MARKET		1 OF 5		

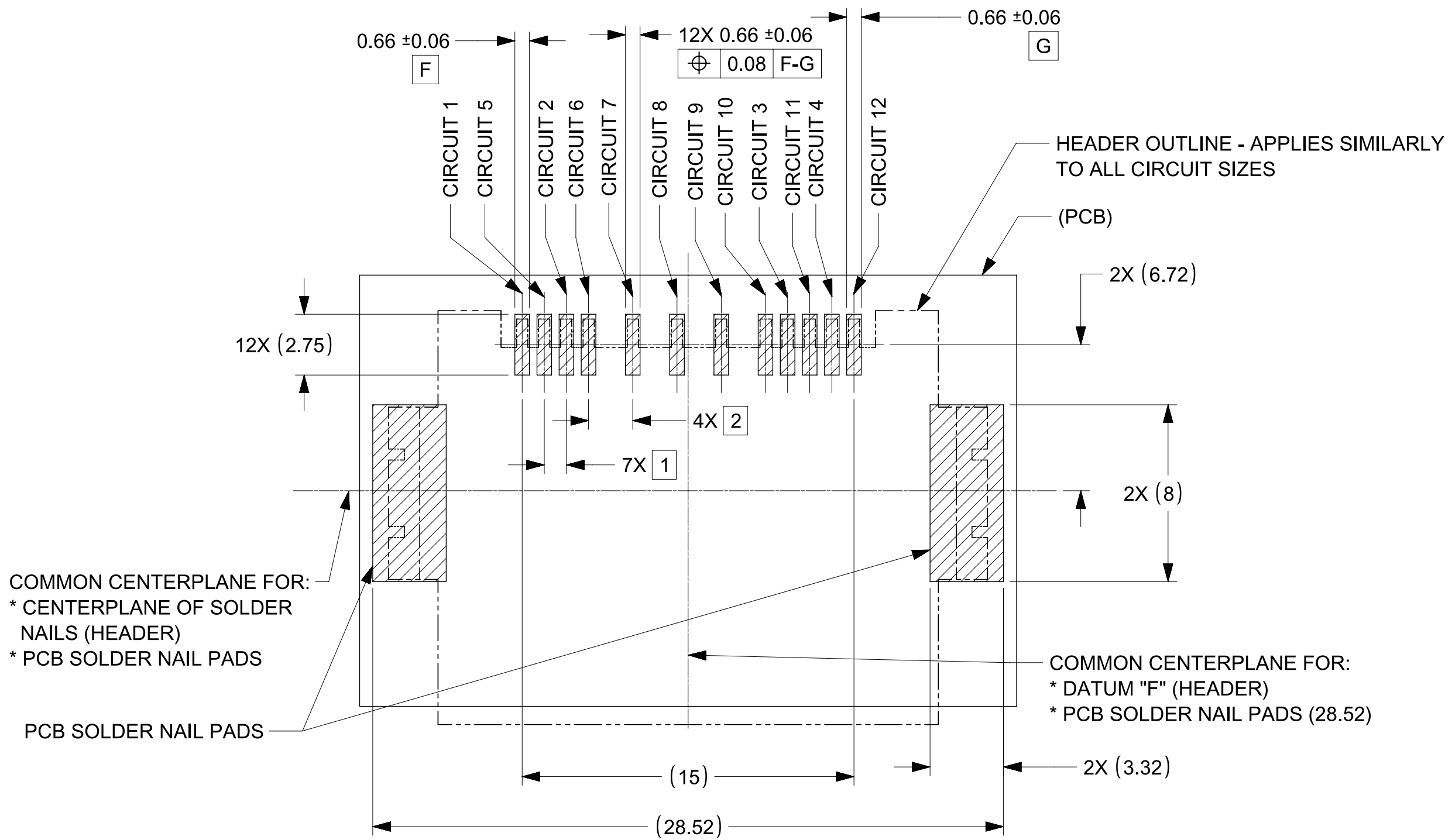
DOCUMENT STATUS	Production	RELEASE DATE	25-Jun-2025	19:03:47
-----------------	------------	--------------	-------------	----------



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



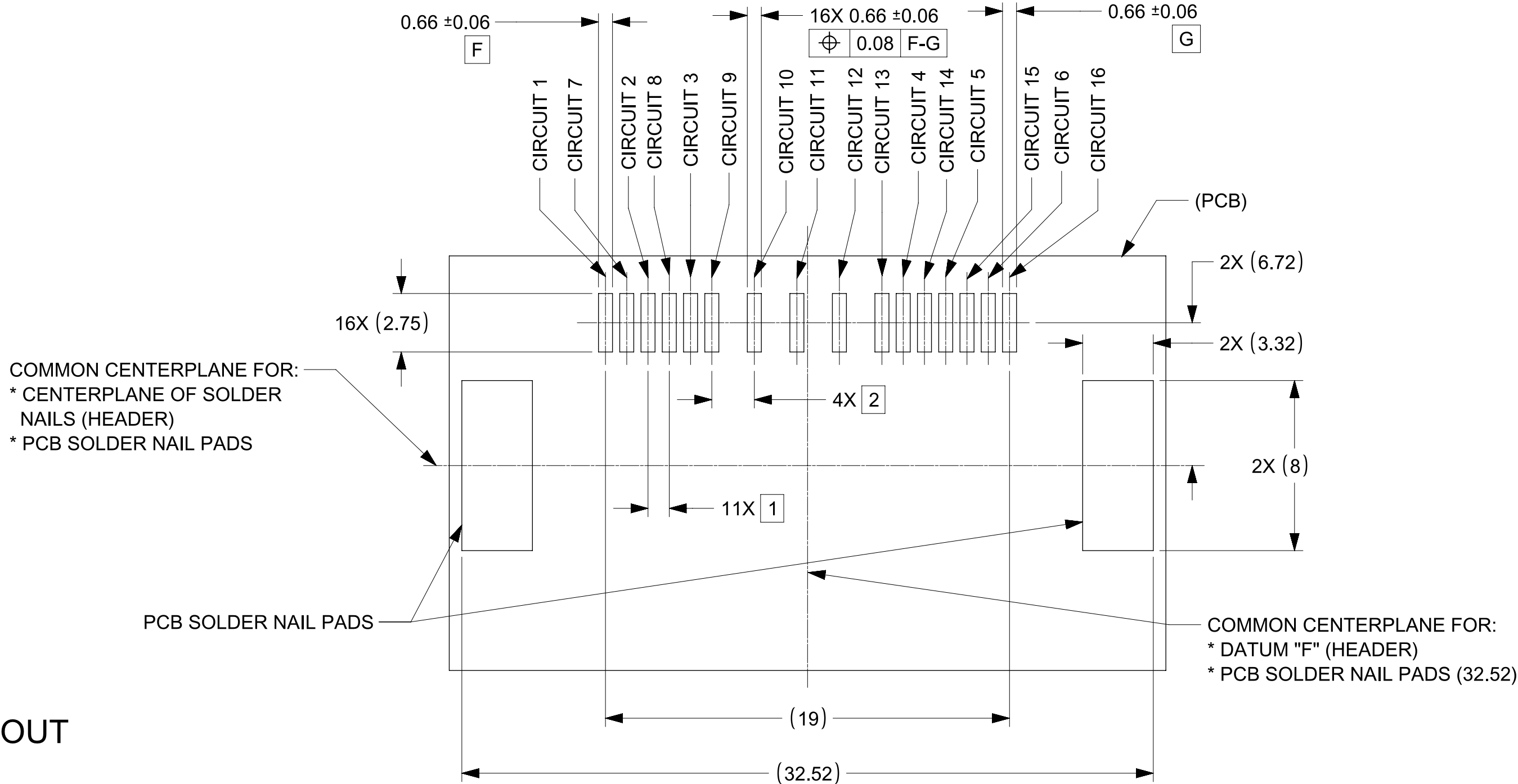
12 CKT SMT HEADER (BOTTOM VIEW)
(OTHER CIRCUIT SIZES ARE SIMILAR)



12 CKT PCB LAYOUT

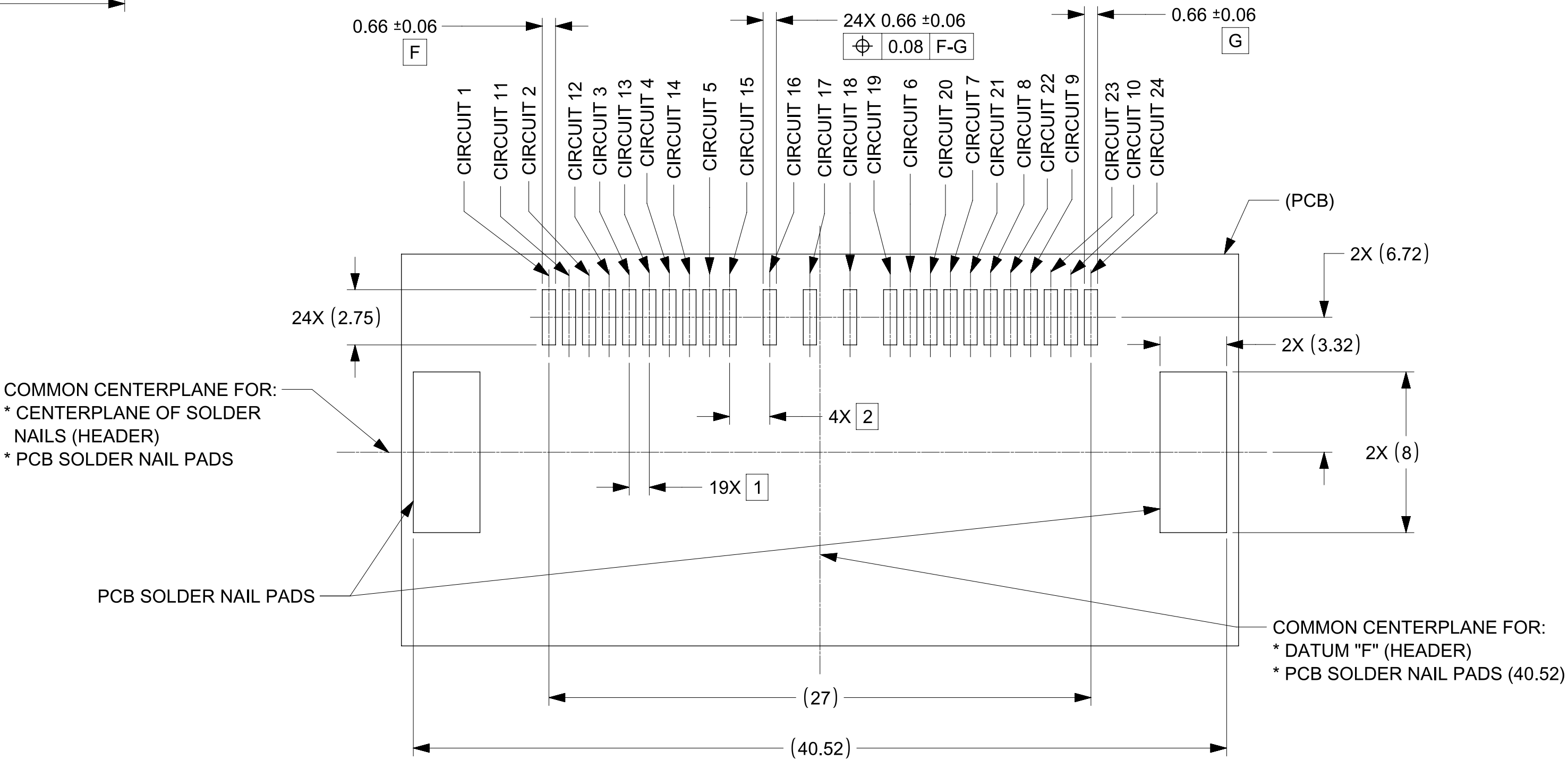
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
DIMENSION UNITS		SCALE		CURRENT REV DESC: REFER TO REVISION COLUMN				molex									
MM		5:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)								MINI50 12-24CKT SMT HDR SALES DRAWING									
ANGULAR TOL ± 1 °																	
4 PLACES		± 0		EC NO: CO-000026895				PRODUCT CUSTOMER DRAWING									
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				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
0 PLACES		± 0		INITIAL REVISION:						SD-34897-001		PSD		000		W12	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
				 		D-SIZE		34897				GENERAL MARKET		3 OF 5			

16 CKT PCB LAYOUT

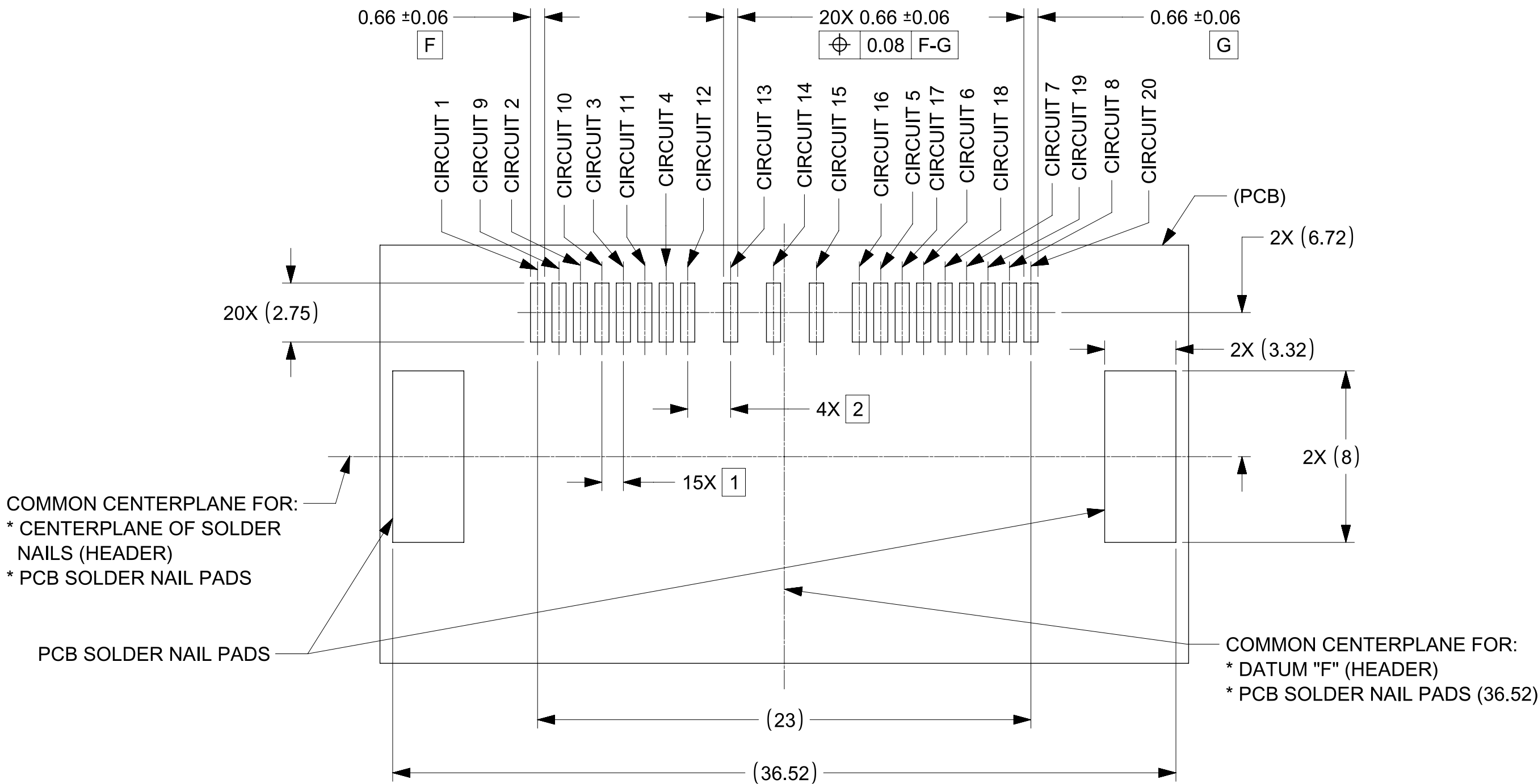


RECOMMENDED PCB LAYOUT:

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 MM		SCALE 5:1		CURRENT REV DESC: REFER TO REVISION COLUMN					
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL		±	1 °	EC NO: CO-000026895				MINI50 12-24CKT SMT HDR SALES DRAWING	
4 PLACES		±	0	DRWN: Lando Zhang 17-Jun-2025				PRODUCT CUSTOMER DRAWING	
3 PLACES		±	0	CHK'D: Leo Li 24-Jun-2025				DOCUMENT NUMBER	
2 PLACES		±	0.1	APPR: wolffw 25-Jun-2025				SD-34897-001	
1 PLACE		±	0.2	INITIAL REVISION:				DOC TYPE	
0 PLACES		±	0	DRWN: RFC_PLMIMP				PSD	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOC PART	
				D-SIZE		34897		000	
								REVISION	
								W12	
								SHEET NUMBER	
								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

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 1 °

4 PLACES ± 0

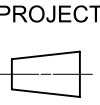
3 PLACES ± 0

2 PLACES ± 0.1

1 PLACE ± 0.2

0 PLACES ± 0

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS



DRAWING

D-SIZE

SERIES

34897

CURRENT REV DESC: REFER TO REVISION COLUMN

EC NO: CO-000026895
DRWN: Lando Zhang
CHK'D: Leo Li
APPR: wolffw

17-Jun-2025
24-Jun-2025
25-Jun-2025

INITIAL REVISION:
DRWN: RFC_PLMIMP
APPR:

DOCUMENT NUMBER

SD-34897-001

DOC TYPE

PSD

DOC PART

000

REVISION

W12

PRODUCT CUSTOMER DRAWING

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

GENERAL MARKET

5 OF 5

DOCUMENT STATUS

Production

RELEASE DATE

25-Jun-2025 19:03:47

19181716151413121110987654321