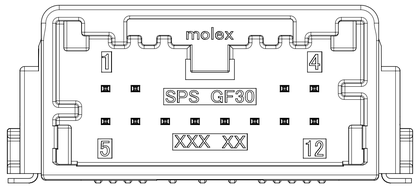
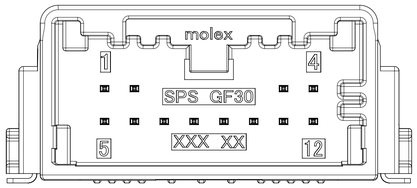


12 CIRCUIT SMT USCAR HEADER
POLARIZATION OPTION A



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)

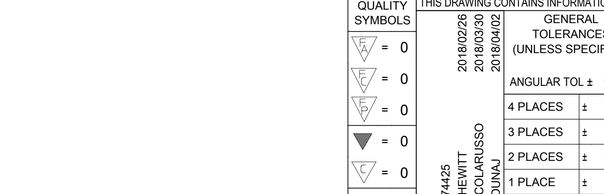
2. DESIGN - MATERIALS:
   a. SHROUD (PLASTIC HOUSING): SPS 30% GF, 25% REGRIND MAX PER WEIGHT
   b. BLADES:
      BASE METAL: C260 BRASS
      PLATING REQUIREMENTS:
      TIN:
      UNDERPLATING:
      OVERALL NICKEL: 1.25 - 2.25 MICROMETERS
      OVERPLATING:
      OVERALL TIN: 2.5 - 4.0 MICROMETERS
      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.

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

INSPECTION BALLON NUMBER LOG
PER DRAWING REVISION: W5
LAST BALLOON USED: 16
ADDED BALLOON NUMBERS:
REMOVED BALLOON NUMBERS:

REV	DESCRIPTION
W5	ADDED DIM BALLOON 15 & 16
W4	ADDED 16CKT GOLD DEPOPULATED POL A P/N
W3	NX REMASTERING

QUALITY SYMBOLS	
AA	= 0
AC	= 0
AD	= 0
	= 0
AB	= 0
	= 0
	= 0
AE	= 0

2018/02/26
2018/03/30
2018/04/02
EC NO: 174425
DRWN: KHEWITT
CH'KD: ECOLARUSSO
APPR: JDUNAJ
REV W5

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ± 1.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.10
1 PLACE	± 0.2
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION UNITS: MM ONLY
SCALE: 5:1
DRWN BY: TMACHUGA
DATE: 2011/11/23
CHK'D BY:
DATE:
APPR BY: SMARCEAU
DATE: 2011/12/19
DRAWING SIZE: D
THIRD ANGLE PROJECTION

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

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MINI 50 DUAL ROW
SMT HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

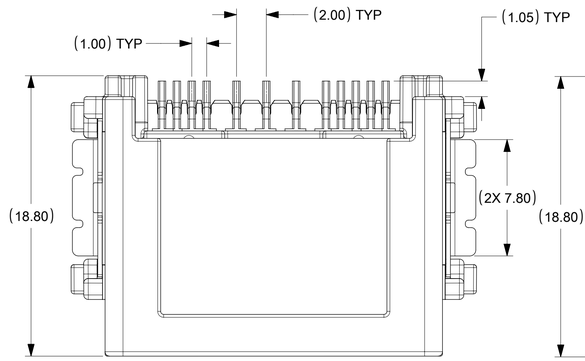
SERIES	MATERIAL NUMBER	CUSTOMER
34897	SEE CHART	GENERAL MARKET

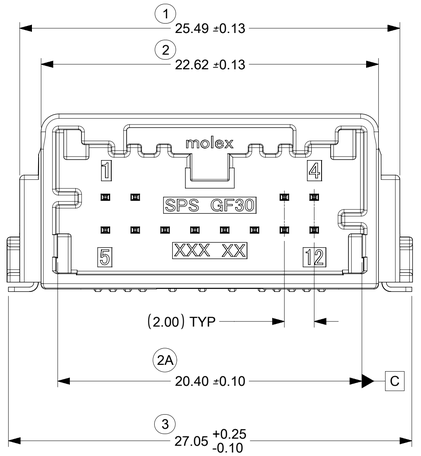
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34897-001	PSD	000	1 OF 5

RELEASE STATUS		RELEASE DATE	

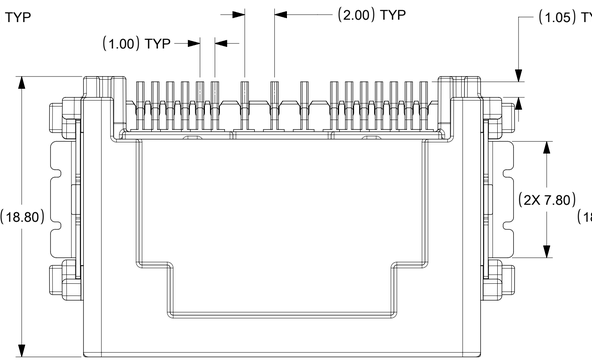
TEMPLATE: master Drawing D
APPROVED: YES
DATE: 2017/05/08

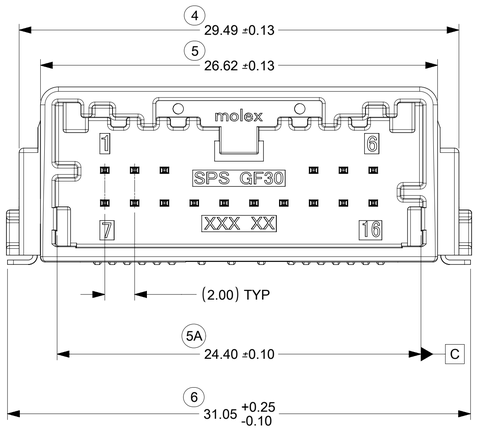
12 CKT SMT USCAR HEADER



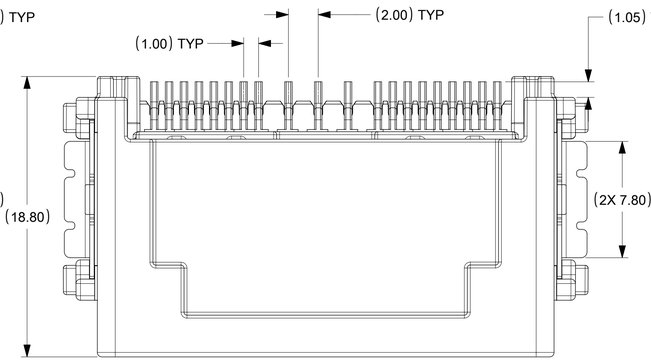


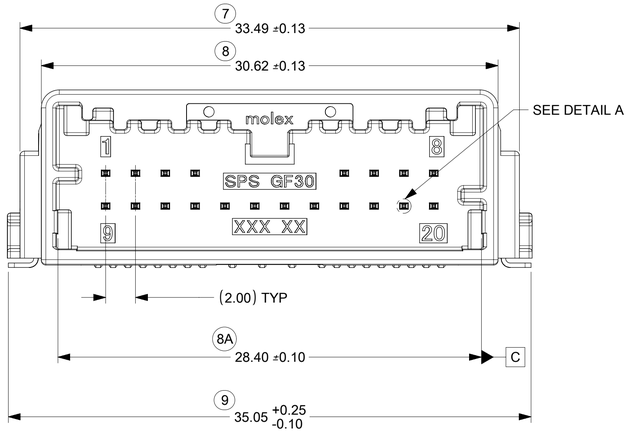
16 CKT SMT HEADER



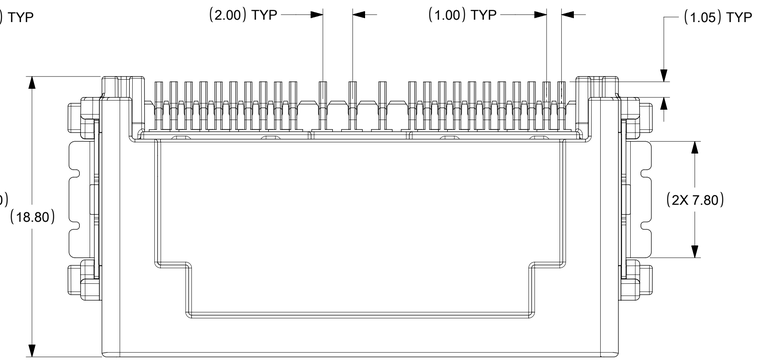


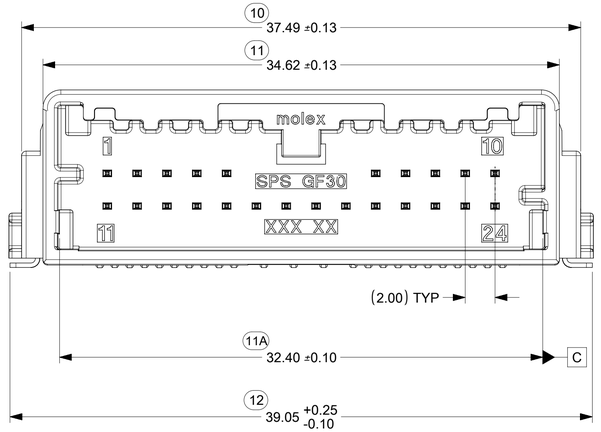
20 CKT SMT HEADER



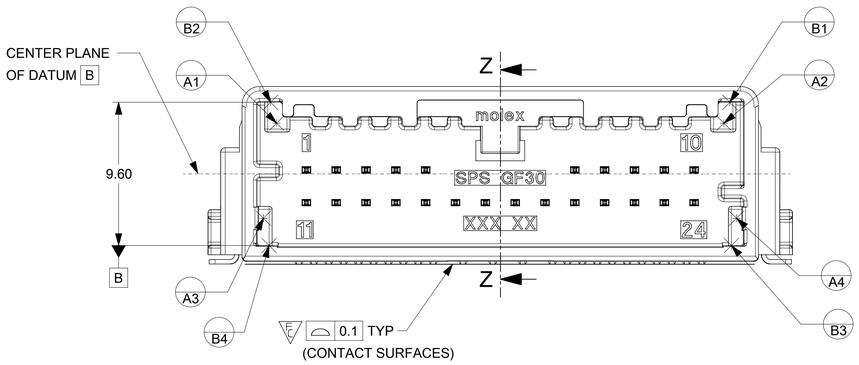


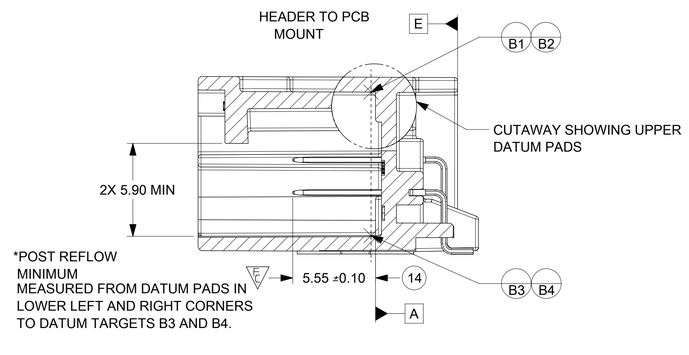
24 CKT SMT HEADER



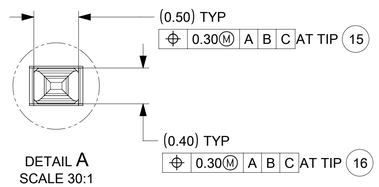


POST-REFLOW MINIMUM LATCH HEIGHT
24 CKT HEADER ASSEMBLY SHOWN AS EXAMPLE





SECTION Z-Z



DETAIL A
SCALE 30:1

QUALITY SYMBOLS	
E/A	= 0
E/C	= 0
E/D	= 0
▼	= 0
E/C	= 0
☒	= 0
■	= 0
E/C	= 0

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

EC NO: 174425 2018/02/26
DRWN: KHEWITT 2018/03/30
CHK'D: ECOLARUSSO
APPR: JDUNAJ 2018/04/02

REV: W5

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

DIMENSION UNITS: MM ONLY
SCALE: 5:1
DRWN BY: TMACHUGA
DATE: 2011/11/23
CHK'D BY:
DATE:
APPR BY: SMARCEAU
DATE: 2011/12/19
DRAWING SIZE: D
THIRD ANGLE PROJECTION

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MINI 50 DUAL ROW
SMT HEADER ASSEMBLY SALES DRAWING

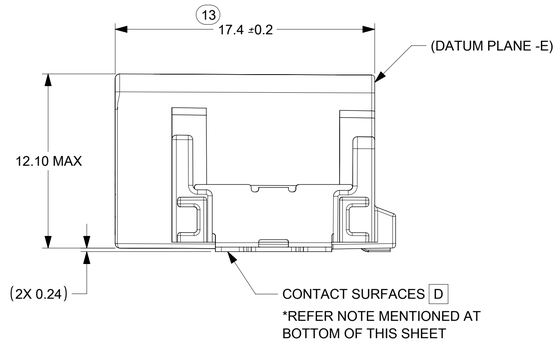
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34897	SEE CHART	GENERAL MARKET

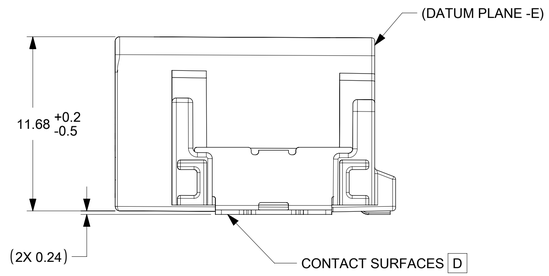
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34897-001	PSD	000	2 OF 5

RELEASE STATUS		RELEASE DATE	

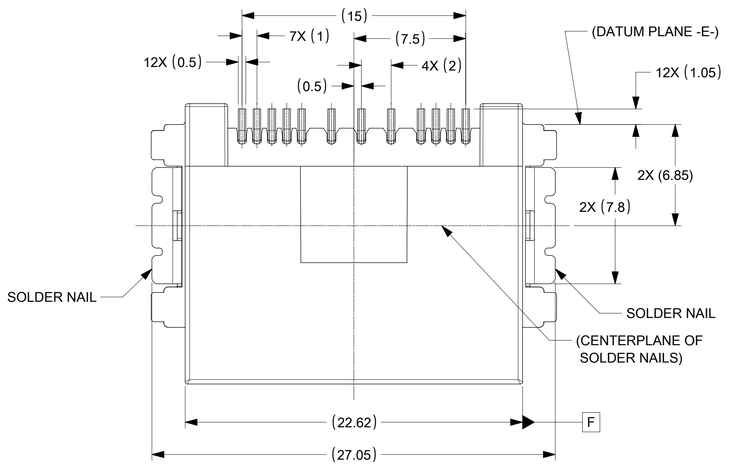
BEFORE REFLOW SOLDERING TEMPERATURE EXPOSURE



AFTER REFLOW SOLDERING TEMPERATURE EXPOSURE

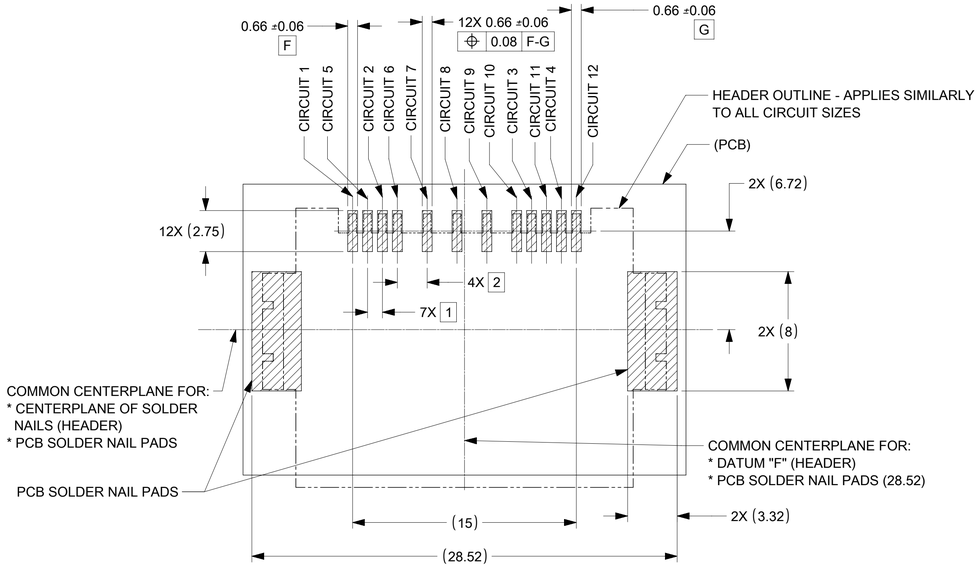


NOTE:
CONTACTS PER CKT:
- 12 CKT - 14 CONTACTS
- 16 CKT - 18 CONTACTS
- 20 CKT - 22 CONTACTS
- 24 CKT - 26 CONTACTS



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

RECOMMENDED PCB LAYOUT:



12 CKT PCB LAYOUT

QUALITY SYMBOLS	
E/A	= 0
E/C	= 0
E/P	= 0
	= 0
C	= 0
	= 0
	= 0
V	= 0

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

EC NO: 174425 2018/02/26
DRWN: KHEWITT 2018/03/30
CHK'D: ECOLARUSSO
APPR: JDUNAJ 2018/04/02

REV: W5

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

DIMENSION UNITS: MM ONLY
SCALE: 5:1
DRWN BY: TMACHUGA DATE: 2011/11/23
CHK'D BY: DATE:
APPR BY: SMARCEAU DATE: 2011/12/19
DRAWING SIZE: D
THIRD ANGLE PROJECTION

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MINI 50 DUAL ROW
SMT HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

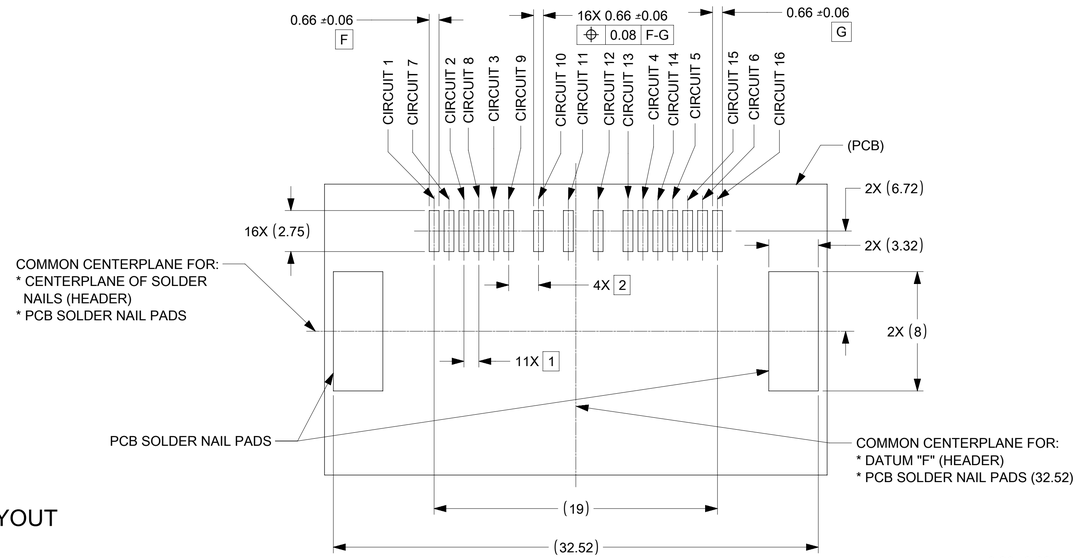
SERIES	MATERIAL NUMBER	CUSTOMER
34897	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34897-001	PSD	000	3 OF 5

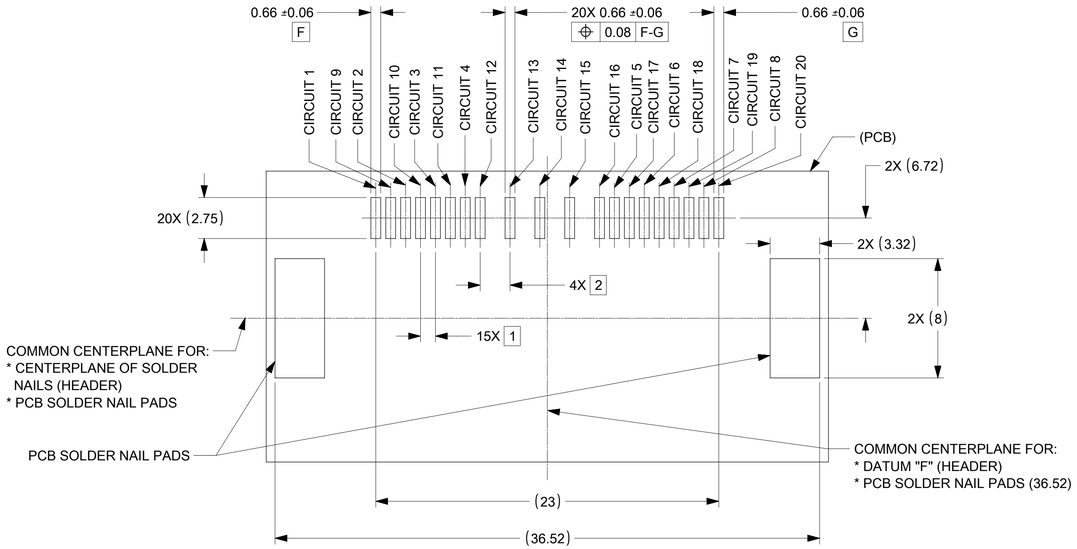
RELEASE STATUS		RELEASE DATE	

RECOMMENDED PCB LAYOUT:

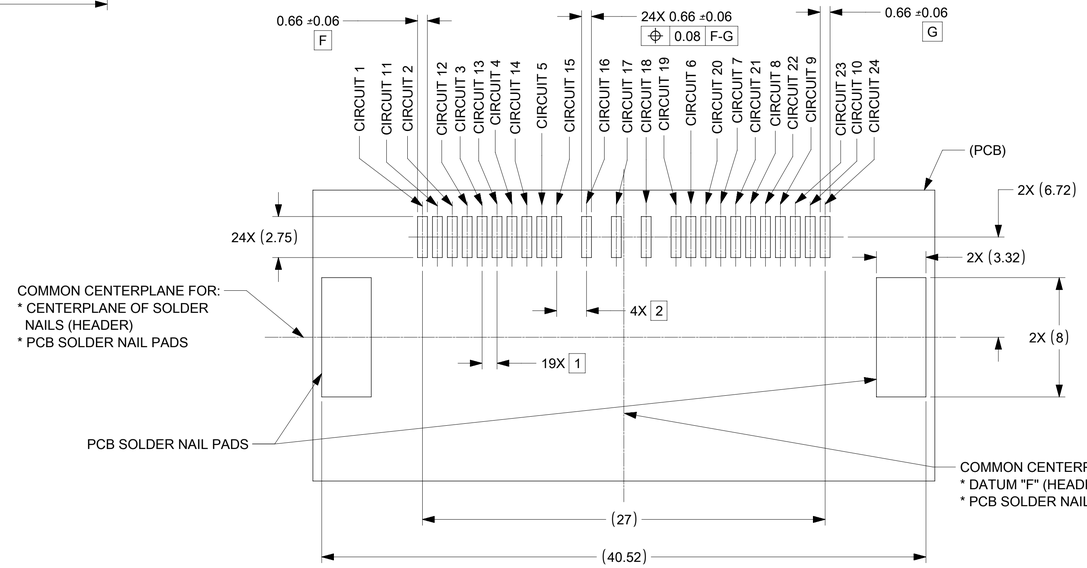
16 CKT PCB LAYOUT



20 CKT PCB LAYOUT



24 CKT PCB LAYOUT



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

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

2018/02/28
2018/03/30
2018/04/02

EC NO: 174425
DRWN: KHEWITT
CHK'D: ECOLARUSSO
APPR: JDUNAJ

REV: W5

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

DIMENSION UNITS	SCALE
MM ONLY	5:1
DRWN BY: TMACHUGA	DATE: 2011/11/23
CHK'D BY	DATE
APPR BY: SMARCEAU	DATE: 2011/12/19
DRAWING SIZE: D	THIRD ANGLE PROJECTION

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MINI 50 DUAL ROW
SMT HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34897	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34897-001	PSD	000	4 OF 5

RELEASE STATUS		RELEASE DATE	

PRINTED: master-tb-prod-01
DATE: 2018/04/02
DATE: 2011/12/19

MINI50 SMT DUAL ROW HEADER ASSEMBLIES

GOLD:

MATERIAL NUMBER		CONFIGURATION	CIRCUIT	POL	DEPOPULATED	VOIDED CKTS	COLOR	BLADE PLATING	MATING COMPONENT	
TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-31301-786								UN-BRIDGED	BRIDGED
34897-5120	34897-6120	USCAR	12	A	NO	N/A	BLACK	GOLD	34824-0124	34824-1124
34897-5121	34897-6121	USCAR	12	B	NO	N/A	GRAY	GOLD	34824-0125	34824-1125
34897-5122	34897-6122	USCAR	12	C	NO	N/A	DARK GRAY	GOLD	34824-0126	34824-1126
34897-5160	34897-6160	USCAR	16	A	NO	N/A	BLACK	GOLD	34824-0164	34824-1164
34897-5161	34897-6161	USCAR	16	B	NO	N/A	GRAY	GOLD	34824-0165	34824-1165
34897-5162	34897-6162	USCAR	16	C	NO	N/A	DARK GRAY	GOLD	34824-0166	34824-1166
34897-5200	34897-6200	USCAR	20	A	NO	N/A	BLACK	GOLD	34824-0204	34824-1204
34897-5201	34897-6201	USCAR	20	B	NO	N/A	GRAY	GOLD	34824-0205	34824-1205
34897-5202	34897-6202	USCAR	20	C	NO	N/A	DARK GRAY	GOLD	34824-0206	34824-1206
34897-5240	34897-6240	USCAR	24	A	NO	N/A	BLACK	GOLD	34824-0244	34824-1244
34897-5241	34897-6241	USCAR	24	B	NO	N/A	GRAY	GOLD	34824-0245	34824-1245
34897-5242	34897-6242	USCAR	24	C	NO	N/A	DARK GRAY	GOLD	34824-0246	34824-1246
N/A	34897-6164	USCAR	16	A	YES	1, 2, 3, 4, 5, 6, 10, 13	BLACK	GOLD	34824-0160	34824-1160

TIN:

MATERIAL NUMBER		CONFIGURATION	CIRCUIT	POL	COLOR	BLADE PLATING	MATING COMPONENT	
TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-31301-786						UN-BRIDGED	BRIDGED
34897-9120	34897-8120	USCAR	12	A	BLACK	TIN	34824-0124	34824-1124
34897-9121	34897-8121	USCAR	12	B	GRAY	TIN	34824-0125	34824-1125
34897-9122	34897-8122	USCAR	12	C	DARK GRAY	TIN	34824-0126	34824-1126
34897-9160	34897-8160	USCAR	16	A	BLACK	TIN	34824-0164	34824-1164
34897-9161	34897-8161	USCAR	16	B	GRAY	TIN	34824-0165	34824-1165
34897-9162	34897-8162	USCAR	16	C	DARK GRAY	TIN	34824-0166	34824-1166
34897-9200	34897-8200	USCAR	20	A	BLACK	TIN	34824-0204	34824-1204
34897-9201	34897-8201	USCAR	20	B	GRAY	TIN	34824-0205	34824-1205
34897-9202	34897-8202	USCAR	20	C	DARK GRAY	TIN	34824-0206	34824-1206
34897-9240	34897-8240	USCAR	24	A	BLACK	TIN	34824-0244	34824-1244
34897-9241	34897-8241	USCAR	24	B	GRAY	TIN	34824-0245	34824-1245
34897-9242	34897-8242	USCAR	24	C	DARK GRAY	TIN	34824-0246	34824-1246

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

QUALITY SYMBOLS
A = 0
C = 0
F = 0
= 0
= 0
= 0
= 0
= 0

EC NO: 174425 2018/02/28
DRWN: KHEWITT 2018/03/30
CHK'D: ECOLARUSSO
APPR: JDUNAJ 2018/04/02
REV W5

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

DIMENSION UNITS: MM ONLY
SCALE: 1:1
DRWN BY: TMACHUGA DATE: 2011/11/23
CHK'D BY: DATE:
APPR BY: SMARCEAU DATE: 2011/12/19
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

MINI 50 DUAL ROW
SMT HEADER ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
34897	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34897-001	PSD	000	5 OF 5

RELEASE STATUS | RELEASE DATE

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

molex:

0436400901 190990009 152670251 430451220 436803002 0190690033 190990010 439151216
447641402 447691602 190670071 190690096 397730002 759001161 760475001 0436802002
151670255 152670269 417920538 459705185 5046940301 190730231 444280402 152660117
152670357 398800403 447642001 0190700155 151660057 430450225