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NOTES: VALID UNLESS OTHERWISE SPECIFIED
1. GENERAL:

a. APPLICATION SPECIFICATION: AS-31386-200

b. PRODUCT SPECIFICATION: PS-31387-200

c. PACKAGING SPECIFICATION: PK-31301-916

d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016

e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

f. DIMENSIONS AND TOLERANCES ARE VALID FOR AS SHIPPED SHTROUD ASSEMBLY

g. REFERENCE GM INTERFACE CONTROL DRAWINGS (ICD)

1. 12582682 (Au)

2. 12642695 (Ag)

2. DESIGN - MATERIALS:

a. PLASTIC PBT 30% GF - SEE CHART FOR COLOR

b. SIGNAL PIN PLATING:

- UNDERPLATE: NICKEL 1.27-2.54 µm

- SELECT GOLD OPTION: 0.76 µm MIN.

- SELECT SILVER OPTION: 1.90-3.30 µm MIN

- SOLDER TAIL SELECT TIN: 5.08-10.16 µm BRIGHT FINISH

c. GROUND PIN PLATING:

- UNDERPLATE: NICKEL 1.27-2.54 µm

- OVERPLATE: SELECT TIN 2.54-4.06 µm, MATTE FINISH

3. DESIGN - GEOMETRY:

a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR ALL NON-DIMENSIONAL FEATURES. DRAWING DIMENSIONS SHALL BE MET WHEN DIFFERENCES EXIST BETWEEN THE DRAWING AND THE CAD MODEL. UNDERLINED DIMENSIONS OR DIMENSIONS INDICATED AS "EDITED" MAY BE DIFFERENT FROM THE 3D MODEL GEOMETRY. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.

b. PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE

c. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

d. GENERAL TOLERANCES - SEE TABLE

4. DESIGN - MANUFACTURING:

a. HUMAN READABLE LASER MARKING

1. INFORMATION TO BE PRINTED:

DDDY - 4 DIGIT JULIAN DATE CODE

S_HH - STITHCER NUMBER_HOUR NUMBER (24 HOUR CLOCK)

MMMM - LAST FOUR DIGITS OF MOLEX MATERIAL NUMBER

2. SIZE: HUMAN LEGIBLE

b. PIN MATE SIDE AND PCB SIDE TRUE POSITION TO BE VERIFIED ONLINE WITH A GO/NO-GO FUNCTIONAL GAGE.

c. ANTI-TARNISH FOR Ag PLATING ONLY: SYTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN. 3.7mm FROM PIN TIP).

d. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (CLASS B).

e. THERE SHALL BE NO PERMISSIBLE DEFECTS THAT COULD POTENTIALLY PROHIBIT THE FUNCTIONALITY WITHIN THE SEALING SURFACE/ZONE SUCH AS PARTING LINES, MISMATCHES, SINK, TEXTURE VARIATIONS, SCRATCHES/GOUGES, SHORT FILL, PROTRUSIONS, PITTS, DENTS/NICKS, BLISTERS OR EJECTOR MARKS

INSPECTION BALLOON LOG

PER DRAWING REVISION: B8
LAST INSPECTION BALLOON: 47
ADDED BALLOON NUMBERS: 1 2 6 7 8 9 10 11 12 13 14 15 19 20 24 25 26 27 28 29
 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
REMOVED BALLOON NUMBERS: 3 4 5 16 17 18 21 22 23

B14

NX REMASTERING

B13

CORRECTED REVISION COLUMN

B12

CORRECTED PCB KEY DIM A & DIM B FOR B & C KEYS

B11

UPDATED PCB KEY DIM A & DIM B FOR ALL KEYS
UPDATE STATUS TO SALEABLE

B10

UPDATED NOTE 1c
(Au & Ag PACKAGING ARE THE SAME) SAP# 10607192

B9

UPDATED NOTE 1c
SAP# 10595870

B8

ADDED NOTE 4d, e & SEALING ZONE DIMS ON PG 2
SAP# 10586362

B7

MODIFIED HIGH RETENTION CAVITY FOR 2.8 GROUND PIN
SAP# 10584227

B6

ADDED BALLOONS 1,2,6-15,19,20,
24-47; DELETED BALLOONS 3-5,17,
18,21-23
EDITED ALL NOTES, STATUS &
MATING HARNESS PART NUMBER
SAP# 10580347

REV

DESCRIPTION

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

EC NO: 121890
DRWN: BSKANTHARAJU
CHK'D: DKRAWCZYK
REV APPR:

2017/03/23
2017/10/12

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 3.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.13
1 PLACE ± 0.25
0 PLACES ±
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITSMMSCALE2:1

DRWN BYFJAKLICDATE04/30/08

CHKD BYFJAKLICDATE04/30/08

APPR BYGPRATTDATE05/05/08

DRAWING SIZEDTHIRD ANGLE PROJECTION

SERIES31387DOCUMENT NUMBERSD-31387-073DOC TYPEPSDDOC PART000SHEET NUMBER1 OF 3

molex®

73 CKT SHTROUD ASSEMBLY
0.64 SQ. PINS MX123

PRODUCT CUSTOMER DRAWING

MATERIAL NUMBERSEE CHARTCUSTOMERGEERAL MARKET

RELEASE STATUS

RELEASE DATE

19

18

17

16

15

14

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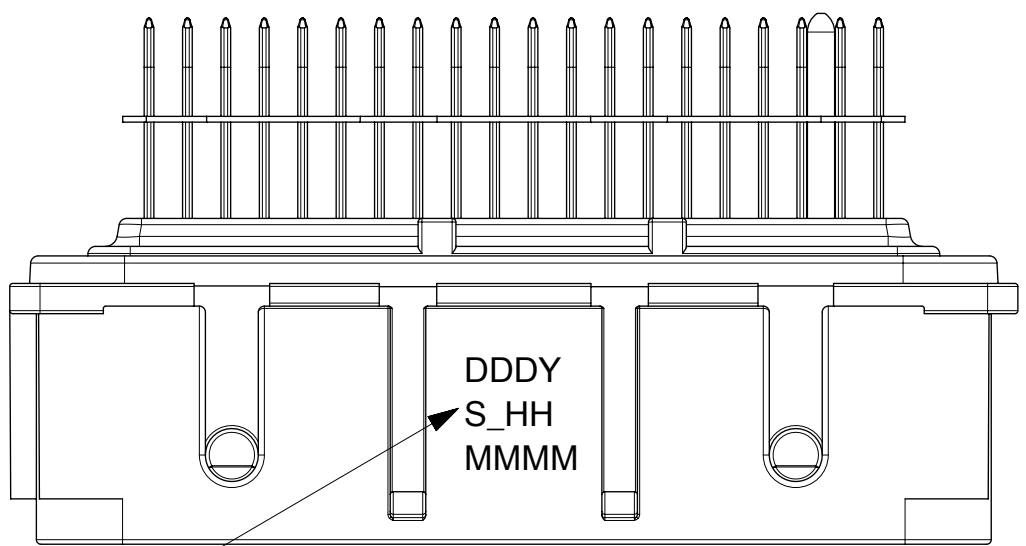
4

3

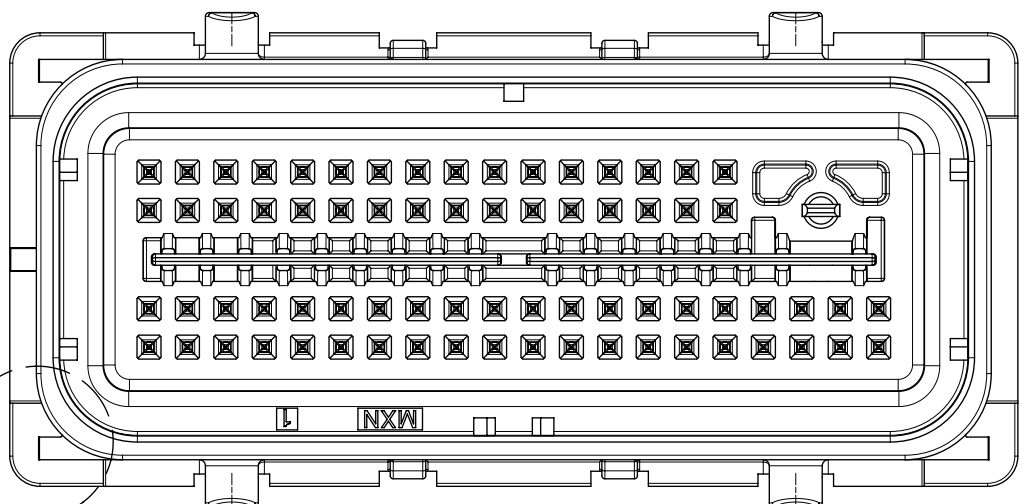
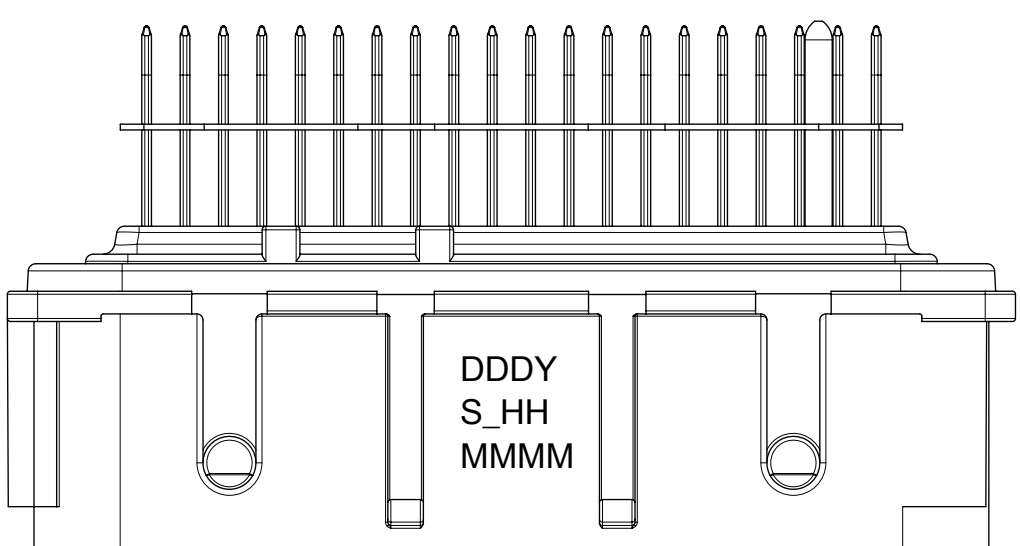
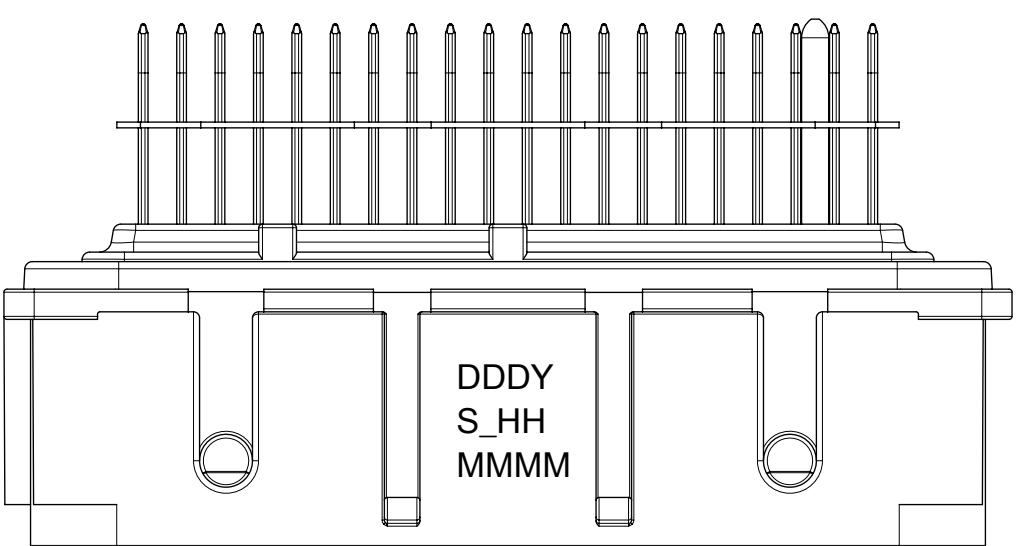
2

1

SHROUD ASSEMBLY NUMBER	MATE SIDE PIN FINISH	COLOR	HARNESS SIDE KEY CODE	PCB SIDE KEY LOCATION		MATING HARNESS PART NUMBER (OPT 0, OPT 9)	STATUS
				DIM. "A" ±0.30	DIM. "B" ±0.30		
31387-2014	GOLD	BLACK	A	19.05	34.29	345660103 345661303	SALEABLE
31387-2002	GOLD	GRAY	B	8.89	24.13	345660203 345661403	SALEABLE
31387-2003	GOLD	BLUE	C	8.89	19.05	345660303 345661503	SALEABLE
31387-2034	SILVER	BLACK	A	19.05	34.29	345660103 345661303	SALEABLE
31387-2032	SILVER	GRAY	B	8.89	24.13	345660203 345661403	SALEABLE
31387-2033	SILVER	BLUE	C	8.89	19.05	345660303 345661503	SALEABLE

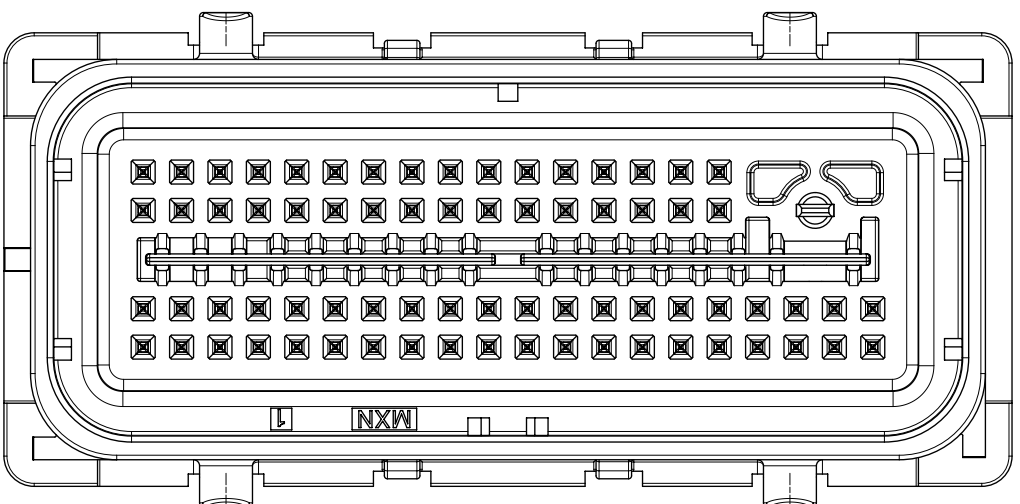


SHROUD ASSEMBLY
TRACEABILITY INFORMATION
FOR MOLEX INTERNAL
USE ONLY (SEE NOTE 4a)

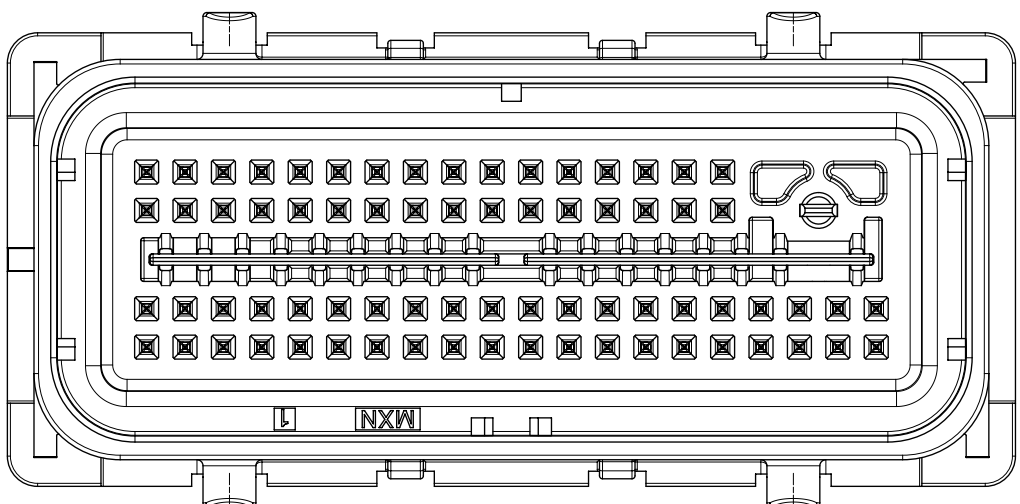


MATE SIDE
POLARIZATION KEY
AT CORNERS

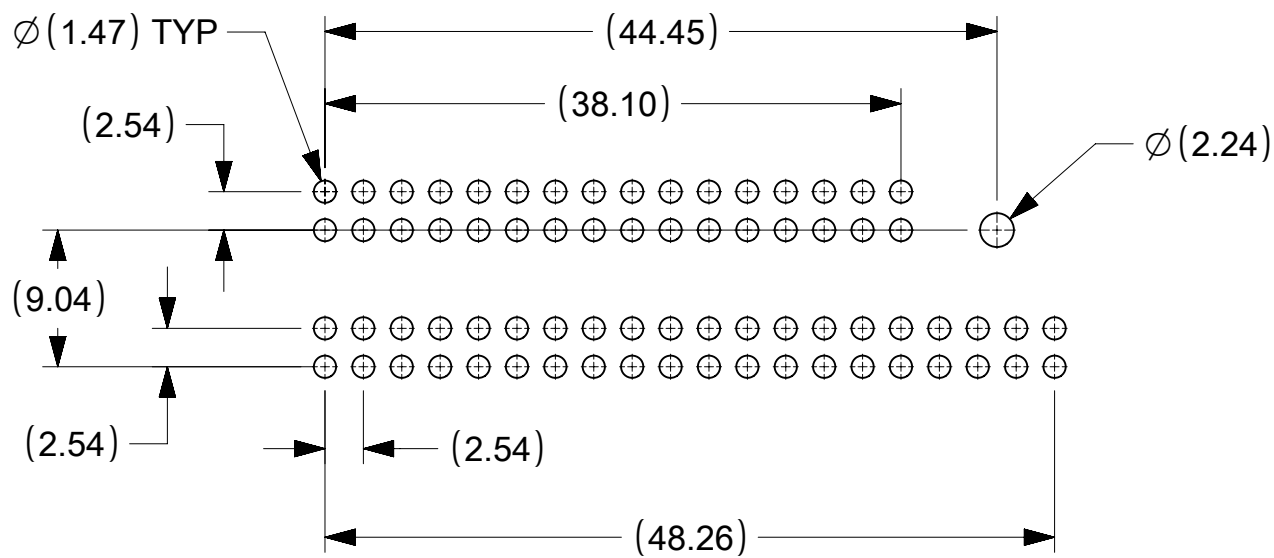
KEY OPTION "A"



KEY OPTION "B"



KEY OPTION "C"



PCB LAYOUT FOR REFERENCE ONLY

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EC NO: 121890

DRWN: BSKANTHARAJU

CHKD:

REV/ APPR: DKRAWCZYK

2017/03/23

2017/10/12

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 3.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.13

1 PLACE ± 0.25

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS

MM

DRWN BY

FJAKLIC

CHK'D BY

FJAKLIC

APPR BY

GPRATT

DRAWING SIZE

D

SCALE

2:1

DATE

04/30/08

DATE

04/30/08

DATE

05/05/08

THIRD ANGLE PROJECTION

73 CKT SHROUD ASSEMBLY
0.64 SQ. PINS MX123

PRODUCT CUSTOMER DRAWING

SERIES

31387

MATERIAL NUMBER

SEE CHART

CUSTOMER

GENERAL MARKET

DOCUMENT NUMBER

SD-31387-073

DOC TYPE

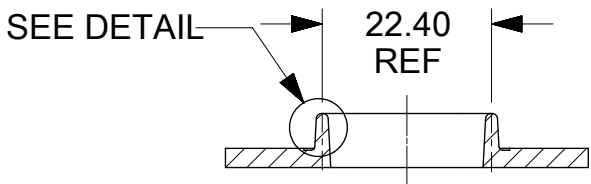
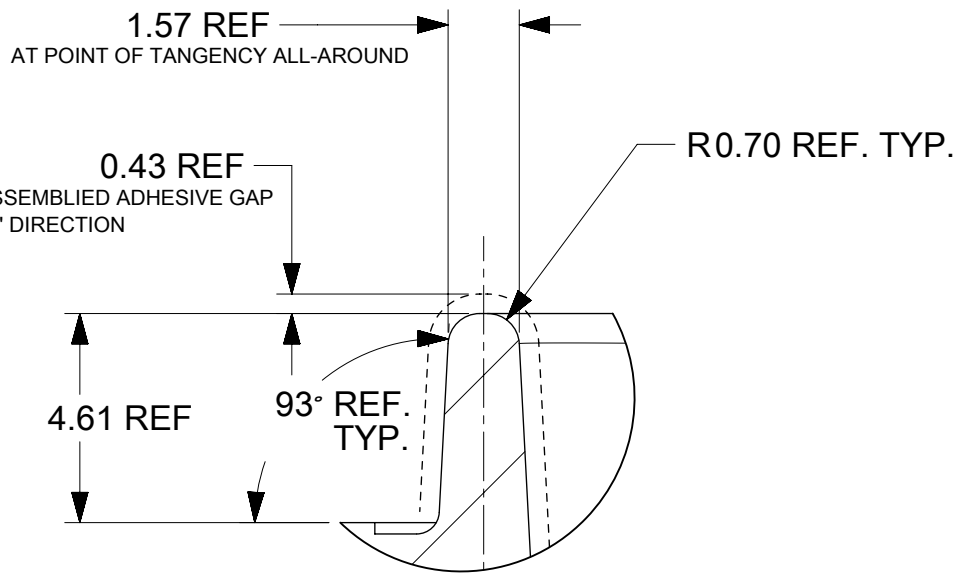
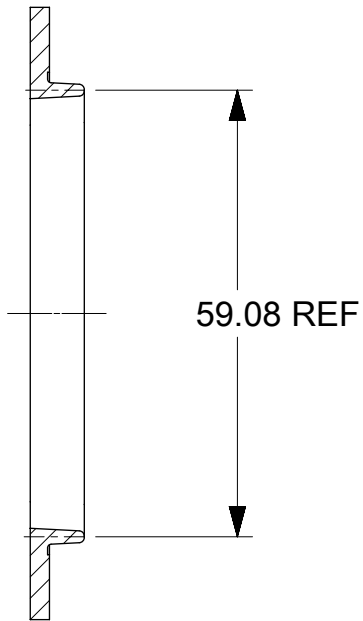
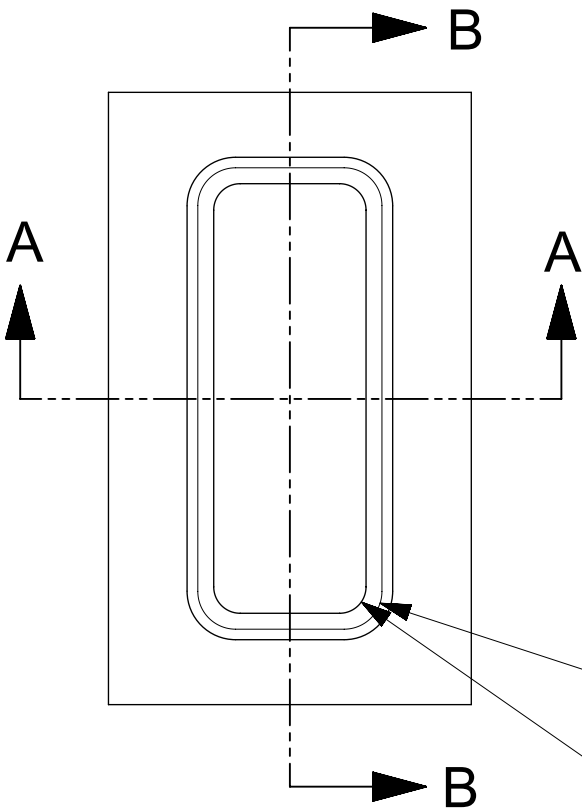
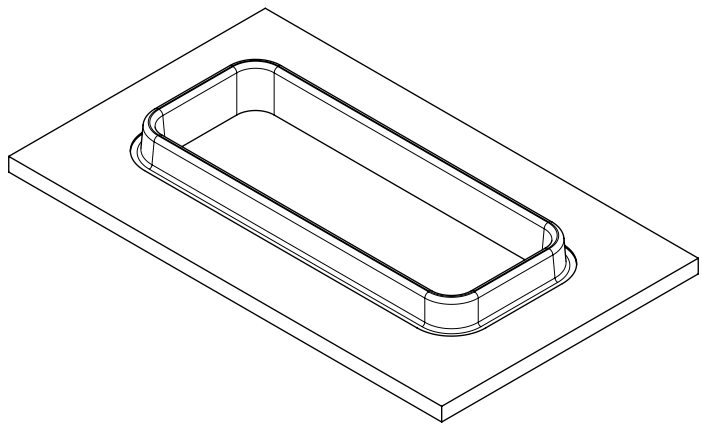
PSD

DOC PART

000

SHEET NUMBER

3 OF 3



SECTION A-A

SECTION B-B

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
QUALITY SYMBOLS		EC NO: 121890 DRWN: BSKANTHARAJU CHK'D: APPR: DKRAWCZYK	2017/03/28 2017/10/12	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex® LARGE FOOTPRINT ADHESIVE TONGUE GEOMETRY	
 = 0	MM					1:1					
 = 0	DRWN BY FJAKLIC DATE 11/21/2008										
 = 0	ANGULAR TOL ± °			CHK'D BY GPRATT DATE 11/21/2008		PRODUCT CUSTOMER DRAWING					
 = 0	4 PLACES ±			APPR BY DKRAWCZYK DATE 2013/02/19							
 = 0	3 PLACES ±			DRAWING SIZE B THIRD ANGLE PROJECTION 							
 = 0	2 PLACES ±			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SERIES 31387		MATERIAL NUMBER		CUSTOMER GENERAL MARKET	
 = 0	1 PLACE ±					DOCUMENT NUMBER SD-31387-173		DOC TYPE PSD	DOC PART 000	SHEET NUMBER 1 OF 1	
 = 0	0 PLACES ±										