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 SHROUD 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 FROMTHE 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, PITS, DENTS/NICKS, BLISTERS OR EJECTOR MARKS.

REV	DESCRIPTION
A10	UPDATED PCN 505530 FOR MINOR DRAFT AND RADII
A9	NX REMASTERING
A8	UPDATE STATUS TO SALEABLE
A7	UPDATED NOTE 1c SAP# 10595870
A6	ADDED NOTE 4d, e & SEALING ZONE ON PG 2 SAP# 10586362
A5	MODIFIED HIGH RETENTION CAVITY FOR 2.8 GROUND PIN SAP# 10584227
A4	ADDED BALLOONS 1,2,6-15,19,20,24-47 REMOVED BALLOONS 3-5,17,18,21-23 EDITED ALL NOTES, STATUS & MATING HARNESS PART NUMBER SAP# 10580347

INSPECTION BALLOON NUMBER LOG

PER DRAWING REVISION: A6
LAST BALLOON NUMBER: 47
ADDED BALLOON NUMBER: 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
DELETED INSPECTION BALLOON NUMBER: 3 4 5 16 17 18 21 22 23

QUALITY SYMBOLS
F = 0
E = 0
D = 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

EC NO: 606583 2018/10/16
DRWN: BSKANTHARAJU 2018/12/10
CHK'D: DKRAWCZYK 2018/12/10
APPR: DKRAWCZYK

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

REV A10

DIMENSION UNITS: MM
SCALE: 2:1
DRWN BY: HKASSAB DATE: 2011/02/09
CHK'D BY: DATE:
APPR BY: RBAUMAN DATE: 2011/02/16
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

66 CKT SHROUD ASSY
GENERAL MAKRET

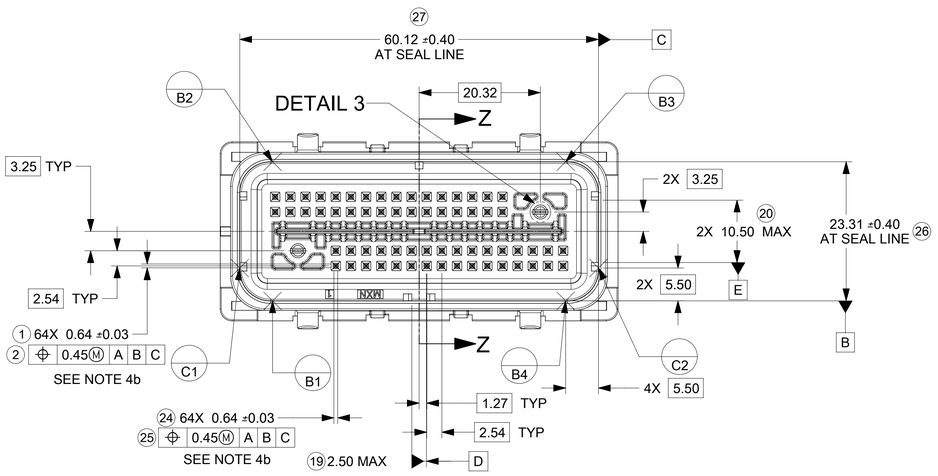
PRODUCT CUSTOMER DRAWING

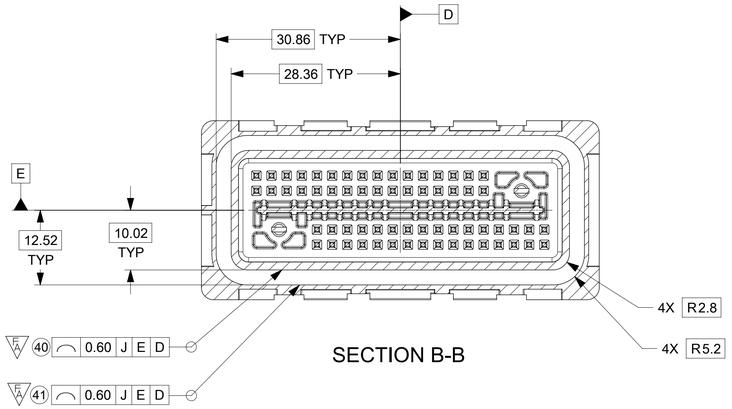
SERIES	MATERIAL NUMBER	CUSTOMER
31387	SEE CHART	GENERAL MARKET

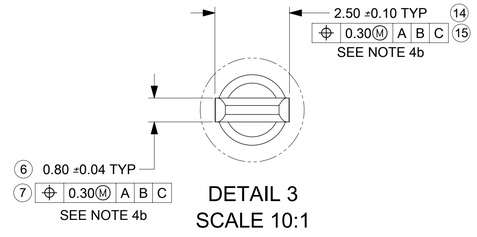
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-31387-066	PSD	000	1 OF 3

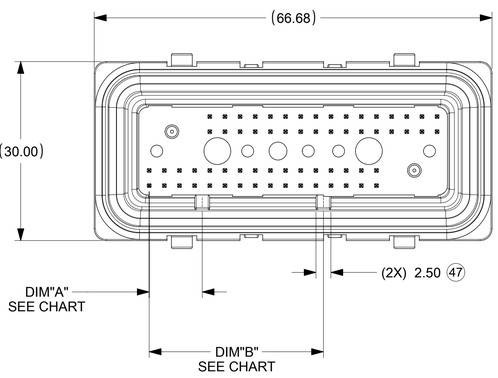
RELEASE STATUS | RELEASE DATE

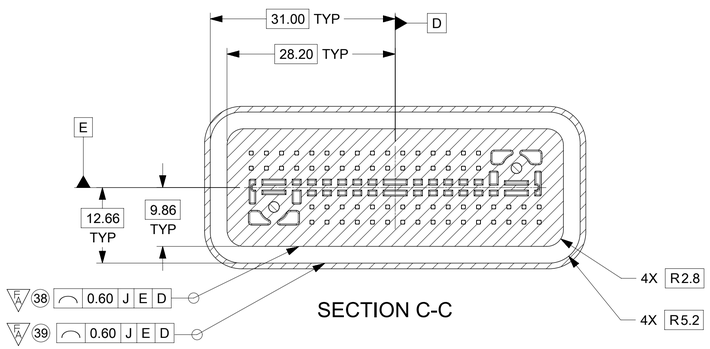
TEMPLATE: molex Drawing C
APPROVED: Yes
DATE: 2017/05/08











RELEASE STATUS		RELEASE DATE	

QUALITY SYMBOLS: (E) (A) = 4; (E) (F) = 3; (E) (F) = 0; ▼ = 0; (C) = 0; ☒ = 0; ■ = 0; (C) = 0

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

EC NO: 606583 '
DRWN: BSKANTHARAJU 2018/10/16
CHK'D: DKRAWCZYK 2018/12/10
APPR: DKRAWCZYK 2018/12/10
REV: A10

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
SCALE: 2:1
DRWN BY: HKASSAB DATE: 2011/02/09
CHK'D BY: DATE:
APPR BY: RBAUMAN DATE: 2011/02/16
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

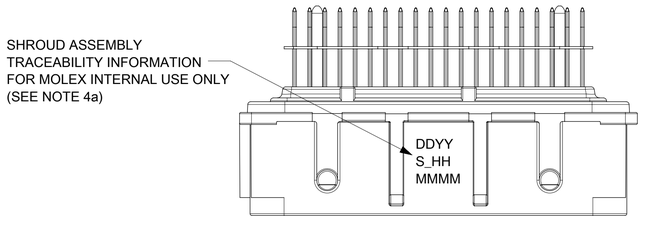
66 CKT SHROUD ASSY
GENERAL MAKRET

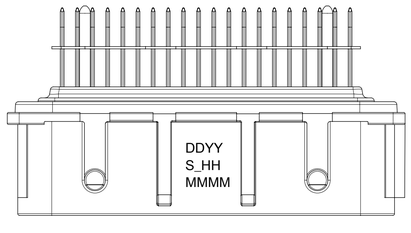
PRODUCT CUSTOMER DRAWING

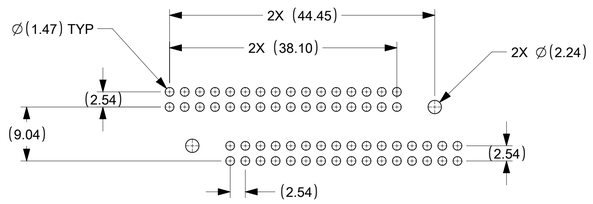
SERIES	MATERIAL NUMBER	CUSTOMER
31387	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-31387-066	PSD	000	2 OF 3

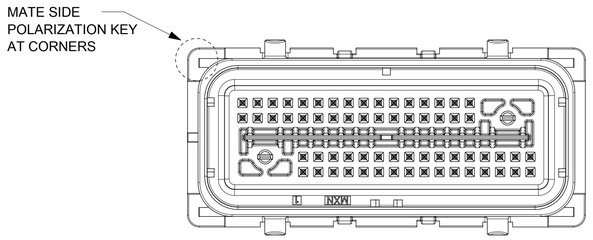
SHROUD ASSEMBLY NUMBER	MATE SIDE PIN FINISH	COLOR	HARNESS SIDE KEY CODE	PCB SIDE KEY LOCATION		MATING HARNESS PART NUMBER (OPT 0, OPT 9)	STATUS
				DIM. "A" ±0.30	DIM. "B" ±0.30		
31387-8001	GOLD	BLACK	A	8.89	29.21	348220013 348220023	SALEABLE
31387-8003	GOLD	BLUE	C	8.89	34.29	348220033 348220043	SALEABLE
31387-8004	SILVER	BLACK	A	8.89	29.21	348220013 348220023	SALEABLE
31387-8006	SILVER	BLUE	C	8.89	34.29	348220033 348220043	SALEABLE



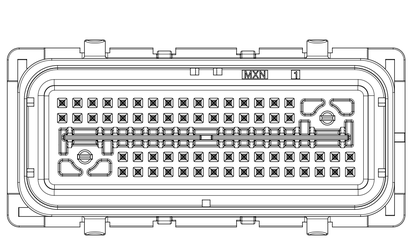




PCB LAYOUT FOR REFERENCE ONLY



KEY OPTION "A"



KEY OPTION "C"

QUALITY SYMBOLS	
= 0	
= 0	
= 0	
= 0	
= 0	
= 0	
= 0	
= 0	

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

EC NO: 606583
DRWN: BSKANTHARAJU 2018/10/16
CHK'D: DKRAWCZYK 2018/12/10
APPR: DKRAWCZYK 2018/12/10

REV: A10

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
SCALE: 2:1
DRWN BY: HKASSAB DATE: 2011/02/09
CHK'D BY: DATE:
APPR BY: RBAUMAN DATE: 2011/02/16
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

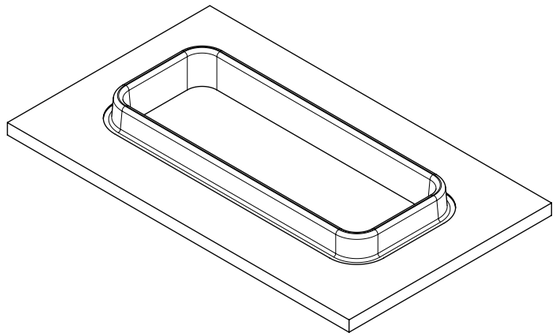
66 CKT SHROUD ASSY
GENERAL MAKRET

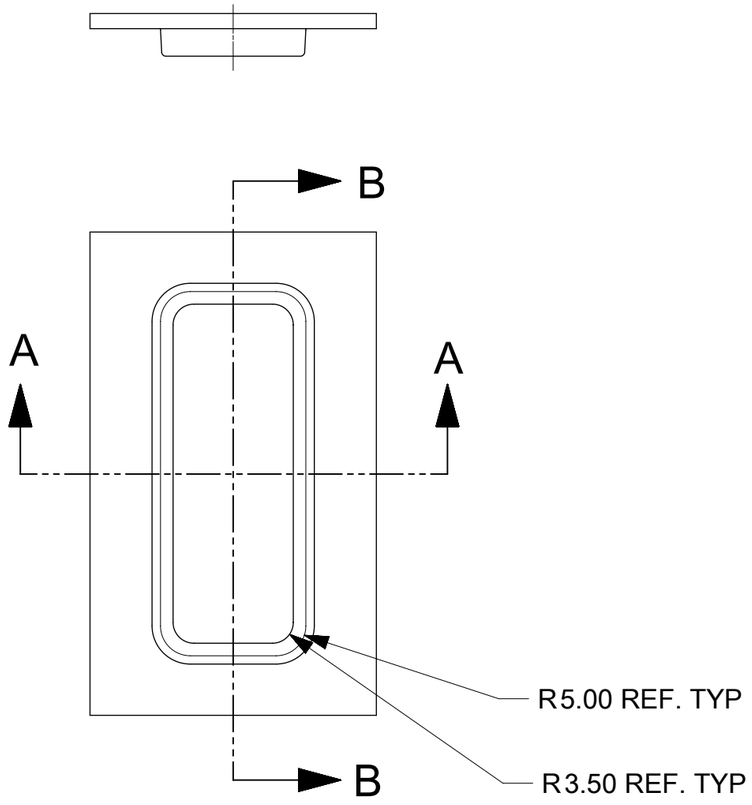
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
31387	SEE CHART	GENERAL MARKET

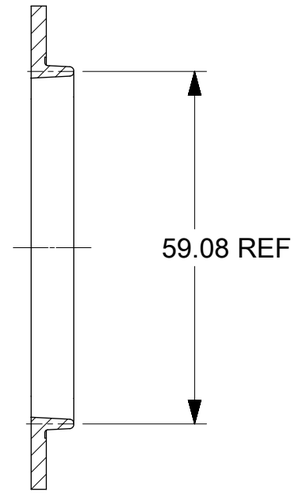
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-31387-066	PSD	000	3 OF 3

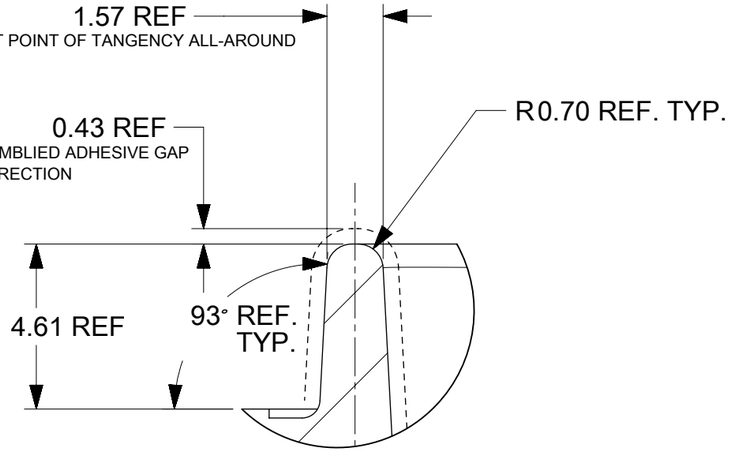
RELEASE STATUS		RELEASE DATE	



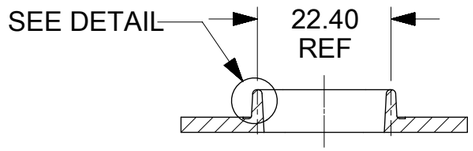


SECTION B-B





SCALE 6:1



SECTION A-A

QUALITY SYMBOLS
FA = 0
FC = 0
FP = 0
▼ = 0
C = 0
☒ = 0
■ = 0
▽ = 0

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

EC NO: 121890 2017/03/28
DRWN: BSKANTHARAJU
CHK'D: DKRAWCZYK 2017/10/12
APPR:
REV: B1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	MM
SCALE	1:1
DRWN BY	FJAKLIC
DATE	11/21/2008
CHK'D BY	GPRATT
DATE	11/21/2008
APPR BY	DKRAWCZYK
DATE	2013/02/19
DRAWING SIZE	B
THIRD ANGLE PROJECTION	

molex®

LARGE FOOTPRINT
ADHESIVE TONGUE GEOMETRY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
31387		GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-31387-173	PSD	000	1 OF 1

RELEASE STATUS		RELEASE DATE	

FORMAT: master-tb-prod-B
REVISION: C
DATE: 2017/02/06

Unikeyic Electronics

Global Electronic Components Distributor

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

molex:

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