NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: AS-31386-200
   b. PRODUCT SPECIFICATION SEE: PS-31386-200
   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 THE AS SHIPPED SHROUD ASSEMBLY
   g. REFERENCE GM INTERFACE CONTROL DRAWINGS (ICD):
      1. 12582683
      2. 12642694

2. DESIGN - MATERIALS:
   a. PLASTIC: 30% GF PBT, SEE CHART FOR COLOR
   b. SIGNAL PIN PLATING:
      - UNDERPLATING (OVERALL): NICKEL 1.27-2.54 µm
      - GOLD (MATE SIDE): 0.76 µm MIN
      - SILVER (MATE SIDE): 1.90-3.30 µm
      - TIN (SOLDER TAIL): 5.08-10.16 µm BRIGHT 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 MARKIING
      1. INFORMATION TO BE PRINTED:
         DDDY - 4 DIGIT JULIAN DATE CODE
         S_HH - STITCHER 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 POSTION 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
B16	Added Updated PN# for Female Connectors
B15	Changed Dim "B" to reference correct datum
B14	
B13	UPDATED PCN 505530 FOR MINOR DRAFT AND RADII
B12	NX REMASTERING
B11	UPDATED NOTE 1c SAP# 10607192
B9	Ag PARTS TO SALEABLE SAP# 10594581
B8	ADDED NOTE 4d, e & SEALING ZONE ON PG 2 SAP# 10586362
B7	EDITED DIM & NOTES REMOVED NOTES 3e-3i & 4a-4l FROM PREVIOUS REV SAP# 10580347
B6	EDITED STATUS OF Ag PARTS SAP# 10579378
B5	EDITED DIMS, ADDED NOTES ON SHEET 1, DATUM D & E, UPDATED VIEWS AND FUNCTIONALS SAP# 10576862

INSPECTION BALLOON # LOG

PER DRAWING REVISION: B8
LAST BALLOON NUMBER USED: 47
ADDED BALLOON NUMBERS: 1, 2, 8, 17, 18, 19, 21, 23, 24, 26-44, 46, 47
REMOVED BALLOON NUMBERS: 3-7, 9-16, 20, 22, 25

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0
DIVISIONAL SYMBOLS

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

DIMENSION UNITS	SCALE
MM	2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3'
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Added Updated PN# for Female Connectors

STATUS: Production
DRWN: Jayasuriyaa R 2025-11-10
CHK'D: Jayasuriyaa R 2025-11-19
APPR: M Prashanth Nagaraj 2025-11-19

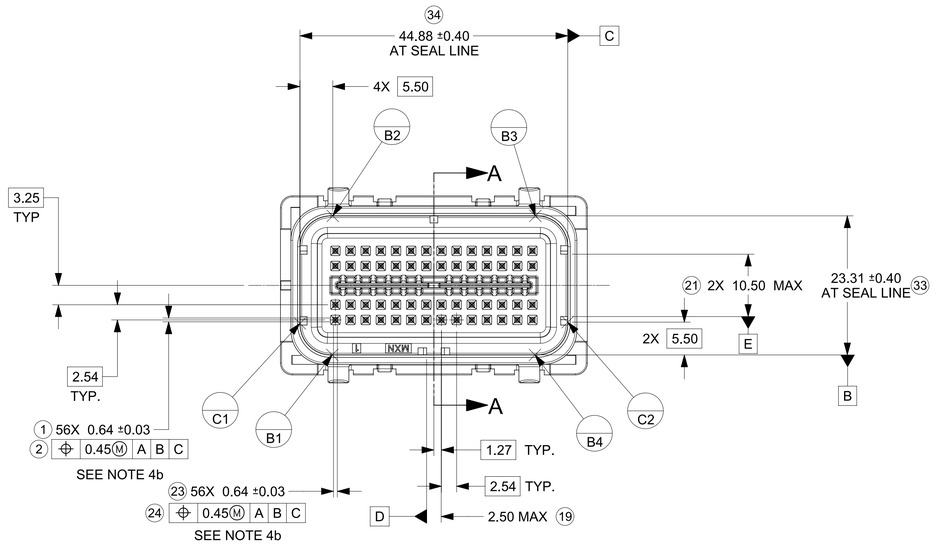
molex

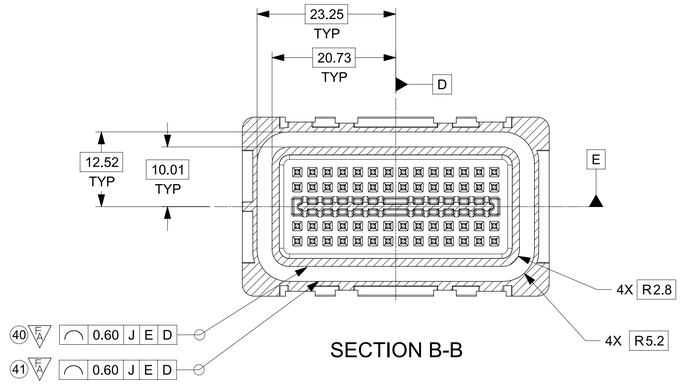
56 CKT SHROUD ASSEMBLY
0.64 SQ. PINS MX123

PRODUCT CUSTOMER DRAWING

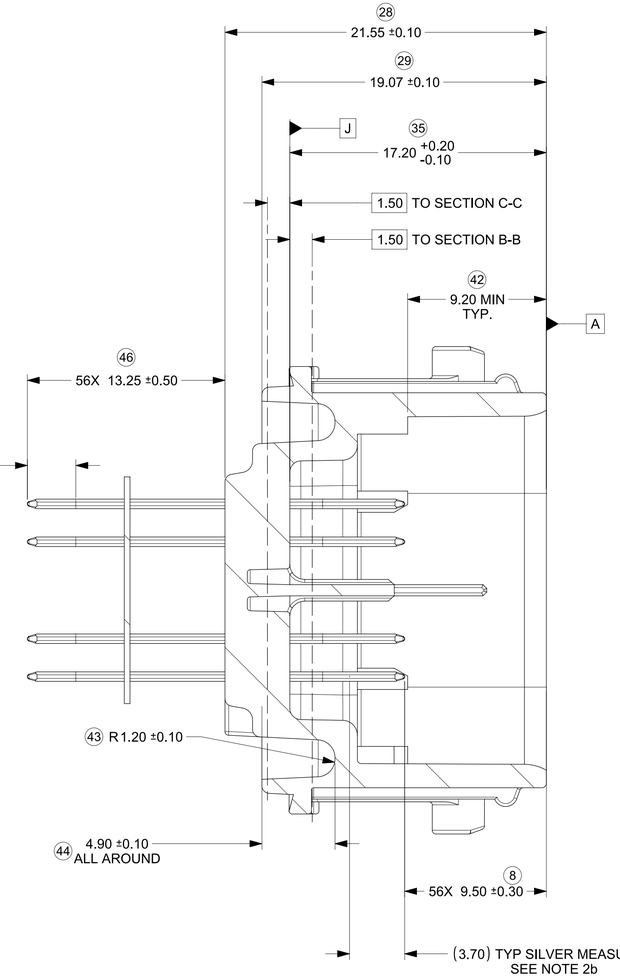
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31386-056	PSD	000	B16

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	31386	SEE CHART	GENERAL MARKET	1 OF 3

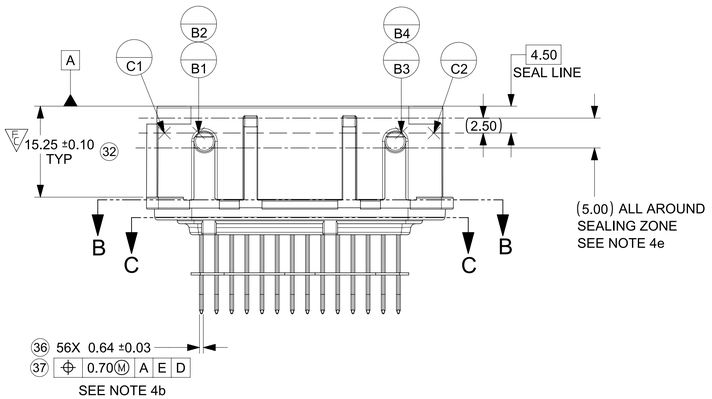


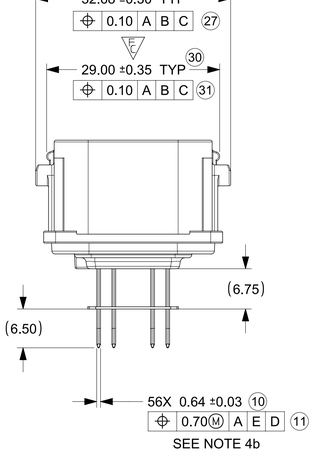


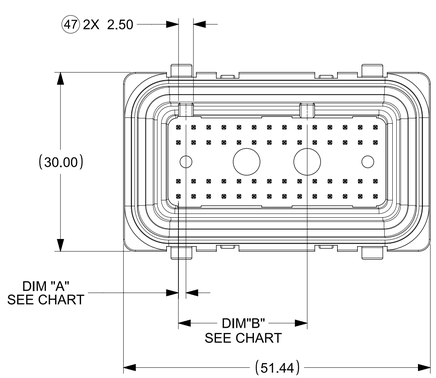
SECTION B-B

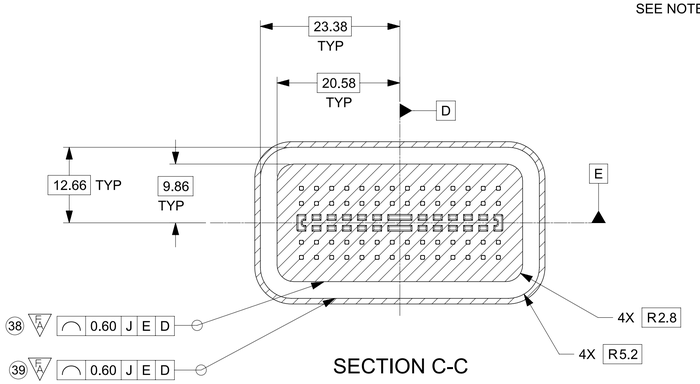


SECTION A-A
SCALE 5:1









SECTION C-C

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
F A = 4	DIMENSION UNITS: MM	SCALE: 2:1	CURRENT REV DESC: Added Updated PN# for Female Connectors
F C = 3	GENERAL TOLERANCES (UNLESS SPECIFIED)		
F D = 0	ANGULAR TOL ± 3°		
DIVISIONAL SYMBOLS	4 PLACES ±		
	3 PLACES ±		
	2 PLACES ± 0.130		
	1 PLACE ± 0.25		
	0 PLACES ±		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

STATUS: Production
DRWN: Jayasuriyaa R 2025-11-10
CHK'D: Jayasuriyaa R 2025-11-19
APPR: M Prashanth Nagaraj 2025-11-19

molex

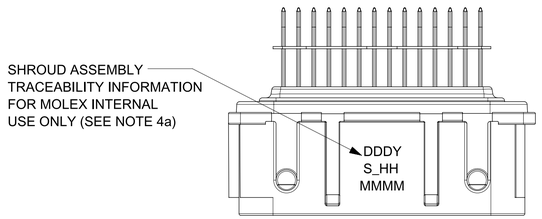
56 CKT SHROUD ASSEMBLY
0.64 SQ. PINS MX123

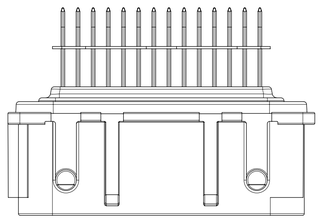
PRODUCT CUSTOMER DRAWING

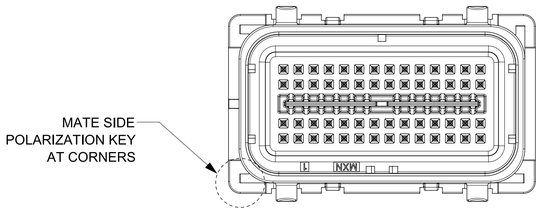
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31386-056	PSD	000	B16

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	31386	SEE CHART	GENERAL MARKET	2 OF 3

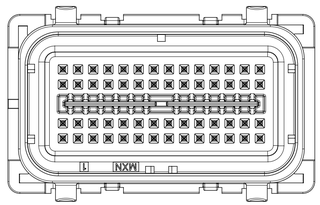
SHROUD ASSEMBLY NUMBER	MATE SIDE PIN FINISH	HOUSING COLOR	HARNESS SIDE KEY CODE	PCB SIDE KEY LOCATION		MATING HARNESS PART NUMBER (OPT 0, OPT 9)	STATUS
				DIM. "A" ±0.30	DIM "B" ±0.30		
31386-2001	GOLD	BLUE	G	6.35	26.67	345760703 / 2167420001 345761903 / 2167420007	SALEABLE
31386-2002	GOLD	GRAY	H	1.27	21.59	345760803 / 2167420002 345762003 / 2167420008	SALEABLE
31386-2020	SILVER	BLUE	G	6.35	26.67	345760703 / 2167420001 345761903 / 2167420007	SALEABLE
31386-2021	SILVER	GRAY	H	1.27	21.59	345760803 / 2167420002 345762003 / 2167420008	SALEABLE







KEY OPTION "G"



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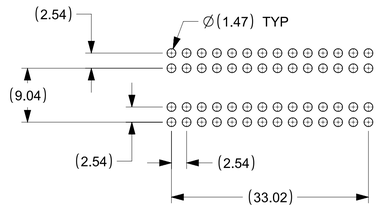


PCB LAYOUT FOR REFERENCE ONLY

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

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FE = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS: MM
SCALE: 2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Added Updated PN# for Female Connectors

STATUS: Production
DRWN: Jayasuriyaa R 2025-11-10
CHK'D: Jayasuriyaa R 2025-11-19
APPR: M Prashanth Nagaraj 2025-11-19

THIRD ANGLE PROJECTION
DRAWING: D-SIZE
SERIES: 31386

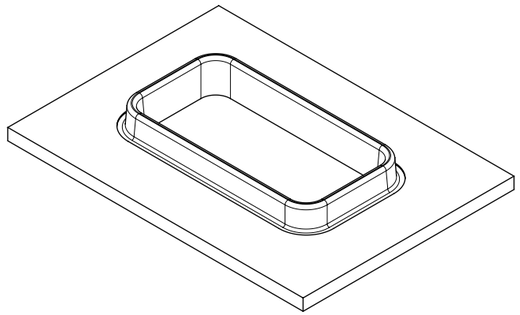
molex

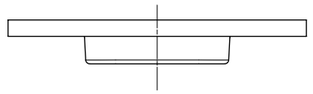
56 CKT SHROUD ASSEMBLY
0.64 SQ. PINS MX123

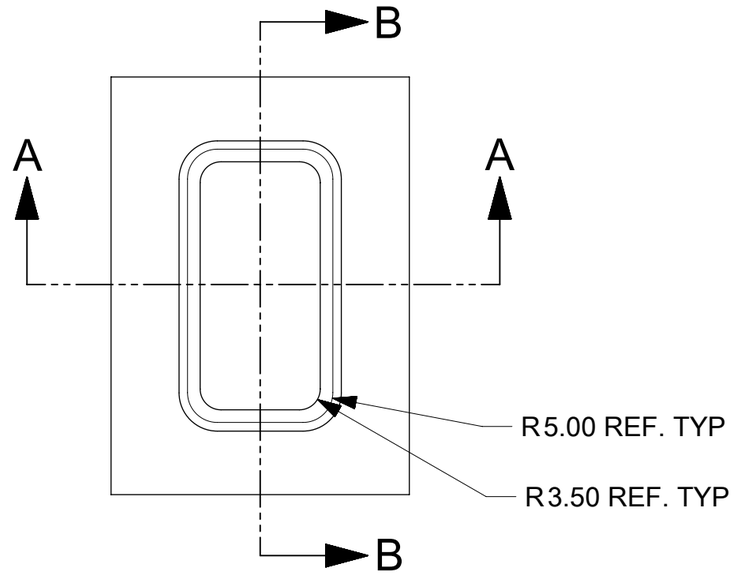
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-31386-056	PSD	000	B16

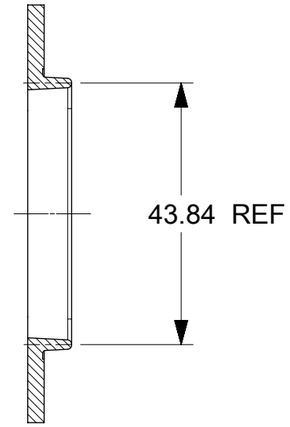
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	3 OF 3

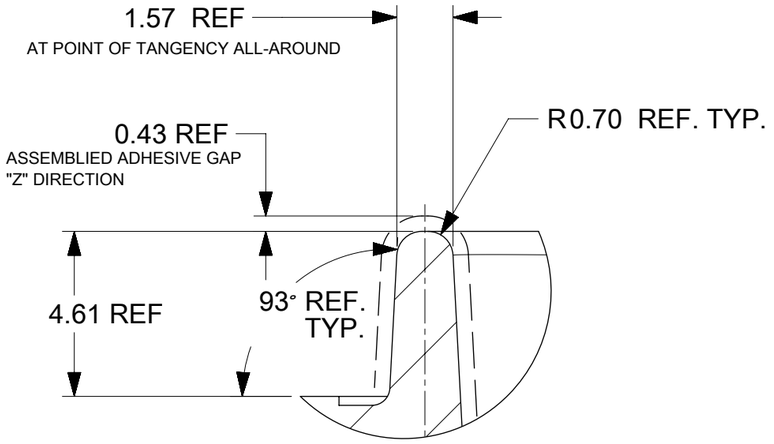




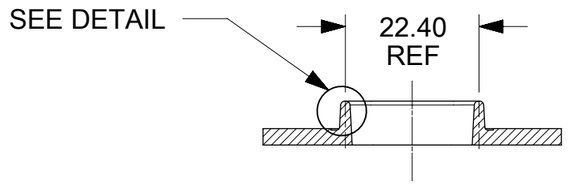


SECTION B-B





SCALE 6:1



SECTION A-A

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:
APPR: DKRAWCZYK 2017/10/12

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®

SMALL FOOTPRINT
ADHESIVE TONGUE GEOMETRY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
31386		GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-31386-156	PSD	000	1 OF 1

RELEASE STATUS		RELEASE DATE	

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