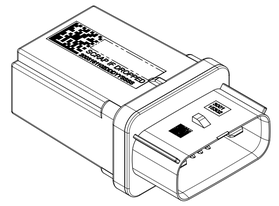
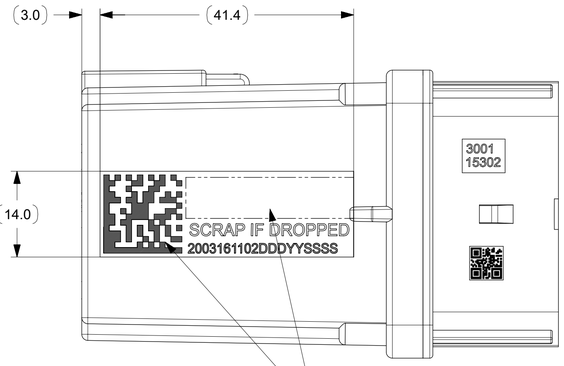
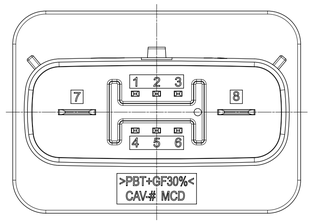




1. LASER MARKING: SEE NOTE 4.2.1 - 4.2.2

2. BOX AREA: OPTIONAL CONSTRUCTION PER REQUIREMENT: SEE PN TABLE



8-WAY KEY_A: 200316-1102

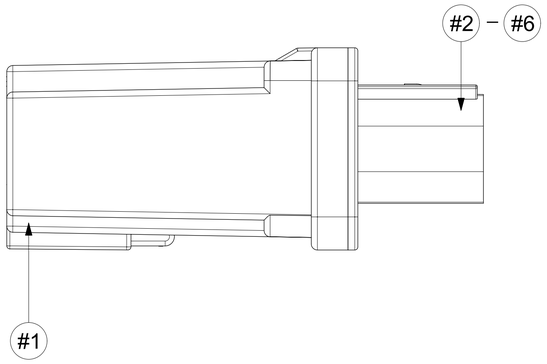
NOTES:

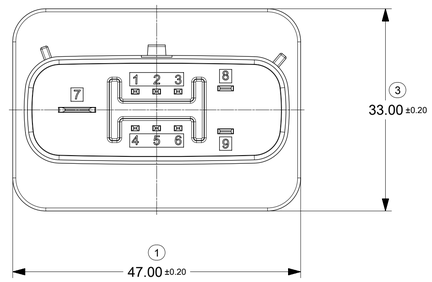
1. GENERAL:
   - 1.1 APPLICATION SPECIFICATION SEE: AS-200316100X
   - 1.2 PRODUCT SPECIFICATION SEE: PS-200316100X
   - 1.3 PACKAGING SPECIFICATION PER MOLEX DRAWING PK-2003168103
   - 1.4 PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300 (FOR SUPPLIERS) OR QEHS-699000-301 (FOR CUSTOMERS) OR QEHS-699000-304 (INTERNAL)
   - 1.5 DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:
   - 2.1 SEE BOM TABLE / COMPONENT DRAWINGS
   - 2.2 PLATING: SEE COMPONENT DRAWINGS
     - 1.5 BLADES: PER EWCAP-001 REV_K: HARNESS SIDE
       1.0-2.5 µM ELECTRO DEPOSITED TIN OVER 0.76-2.0 UM ELECTRODEPOSITED SULPHAMATE NICKEL
     - 2.8 BLADES: PER EWCAP-001 REV_K: HARNESS SIDE
       1.0-2.5 µM ELECTRO DEPOSITED TIN OVER 0.76-2.0 UM ELECTRODEPOSITED SULPHAMATE NICKEL
     - 6.3 BLADES (TIN): PER EWCAP-001 REV_K: HARNESS SIDE
       1.0-2.5 µM ELECTRO DEPOSITED TIN OVER 0.76-2.0 UM ELECTRODEPOSITED SULPHAMATE NICKEL
     - 6.3 BLADES (AG): PER EWCAP-001 REV_K: HARNESS SIDE
       1.0-3.0 µM ELECTRO DEPOSITED SILVER OVER 1.0-2.0 UM ELECTRODEPOSITED SULPHAMATE NICKEL.
       ANTI-TARNISH COATING: EVABRIGHT-S
   - 2.3 FOR SILVER PLATED BLADES ONLY: ANTI-TARNISHING AGENTS MAY WIPE OFF PINS/BLADES DURING TERMINAL INSERTION. SOME GREY OR BLACK SPOTS MAY APPEAR ON SILVER PLATED PINS. ELECTRICAL PERFORMANCE IS NOT AFFECTED BY GREY OR BLACK TARNISH ON THE SILVER PLATING SURFACE. ACCEPTABLE SILVER PIN SURFACE CAN INCLUDE GREY OR BLACK TARNISH.

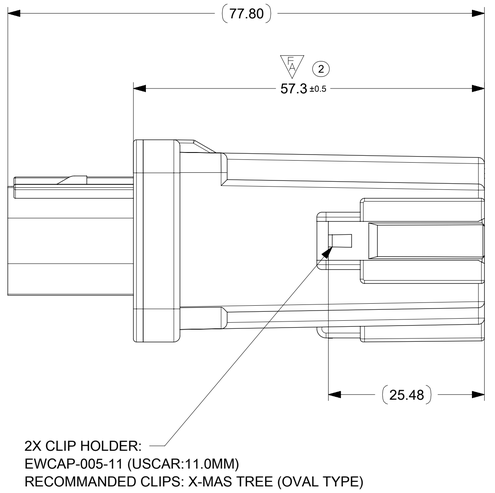
3. DESIGN - GEOMETRY:
   - 3.1 THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
   - 3.2 THE 3-D CAD DATA IS MASTER FOR THIS PART AND IS TO BE USED TO ESTABLISH DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING. ANY DIMENSIONS UNDERLINED INDICATE A CONFLICT WITH THE MODEL.
   - 3.3 GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009.
   - 3.5 EDGES AND UNDIMENSIONED DETAILS PER ISO 13715
   - 3.6 CORNERS SHOWN AS SHARP TO R0.2 MAX

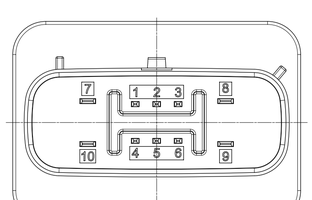
4. DESIGN - MANUFACTURING:
   - 4.1 VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (CLASS B)
   - 4.2 TRACEABILITY LASER MARKING: INITIAL SAMPLE MUST BE APPROVED BY PRODUCT ENGR.
     - 4.2.1 2D DATA MATRIX CODE (2D DMC)
       - MARKING AND READING STANDARD: DATA MATRIX (ECC200)
       - 14MM X 14MM SIZE
       - INFORMATION TO BE ENCODED:
         PPPP = LAST FOUR DIGITS OF MOLEX PART NUMBER
         YY=YEAR
         DDD=DAY OF THE YEAR
         SSSS=INCREMENTAL SERIAL NUMBER
     - 4.2.2 HUMAN READABLE CODE (HRC)
       - PERMANENTLY APPLIED ON THE PART WITH APPROPRIATE FONT SIZE
       - INFORMATION TO BE PRINTED:
         10 DIGIT MOLEX PART NUMBER
         5 DIGITS JULIAN MANUFACTURING DATE (DDDYY)
         4 DIGITS INCREMENTAL SERIAL NUMBER
   - 4.3 ALL ASSEMBLYS MUST BE CHECKED FOR ELCTRICAL FUNCTIONALITY TEST SPEC.: SEE P/N TABLE
   - 4.4 LEAK TEST SPECIFICATION: PRESSURE: -55 KPA (-8 PSI VACUUM)
     - ACCEPTANCE CRITERIA: LESS THAN 5SCCM (IN THE ADHESIVE SIDE
   - 4.5 CLEANLINESS REQUIREMENTS (PARTICLES CONTAMINATION): ACCORDING TO ISO 16232 FOR SURFACE AREA OF 1000 CM2:
     - METALLIC PARTICLES = 1000 MICRON MAX.
     - NONMETALLIC PARTICLES = UNLIMITED
     - FIBERS MAXINUM = UNLIMITED
     - TOTAL MASS OF DEBRIS: LESS THAN 5 MG





9-WAY KEY_A: TBD





10-WAY KEY_A: TBD

BOM TABLE

ASSEMBLY P/N			2003161101	2003161102	2003161103	2003161121	2003161122
STATUS			ACTIVE	ACTIVE	ACTIVE	ACTIVE	ACTIVE
ITEM	PN	COMPONENT DESCRIPTION	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1	2003169120	MPDB_MOD_BCK-CVR	1	1	1	1	1
2	2003165001	MPDB_MOD_PCB_ASSY 8CKT KEY-B	1	-	-	-	-
3	2003165002	MPDB_MOD_PCB_ASSY 8CKT KEY-A	-	1	-	-	-
4	2003165003	MPDB_MOD_PCB_ASSY 8CKT KEY-C	-	-	1	-	-
5	2003165021	MPDB_MOD_PCB_ASSY 8CKT KEY-A	-	-	-	1	-
6	2003165022	MPDB_MOD_PCB_ASSY 8CKT KEY-B	-	-	-	-	1

2003161122	A	MPDB_ASSY 8CKT KEY-B GM2	B	8-WAY (6X1.5 & 2X6.3)	1.5:TIN / 6.3:TIN	MOLEX: 160078-3007	TS-2003161022	LASER MARKING	TBD
2003161121	A	MPDB_ASSY 8CKT KEY-A GM2	A	8-WAY (6X1.5 & 2X6.3)	1.5:TIN / 6.3:TIN	MOLEX: 160078-3006	TS-2003161021	LASER MARKING	TBD
2003161103	A1	MPDB_ASSY 8CKT KEY-C GM1	C	8-WAY (6X1.5 & 2X6.3)	1.5:TIN / 6.3:TIN	MOLEX: 160078-3026	TS-2003161003	LASER MARKING	TBD
2003161102	A1	MPDB_ASSY 8CKT KEY-A GM1	A	8-WAY (6X1.5 & 2X6.3)	1.5:TIN / 6.3:TIN	MOLEX: 160078-3022	TS-2003161002	LASER MARKING	TBD
2003161101	A1	MPDB_ASSY 8CKT KEY-B GM1	B	8-WAY (6X1.5 & 2X6.3)	1.5:TIN / 6.3:AG	MOLEX: 160078-3024	TS-2003161001	LASER MARKING	TBD
MOLEX P/N	REV	DESCRIPTION	KEY WAY	HEADER PIN OUT	HEADER BLADE PLATING	CONNECTOR P/N	EOL TEST SPEC.	TRACEABILITY	LASER MARK (BOX AREA)

B1	UPDATED PART DESCRIPTIONS	ER614434
B	ADDED 2003161121, 1122	ER608569
A	RELEASE PRODUCTION	10886196
REV.	DESCRIPTIONS	SAP NO.

DOCUMENT STATUS	P1	RELEASE DATE	2019/03/25 20:30:43

SYMBOLS: 1 = 1, 2 = 2, 0 = 0, 0 = 0, 0 = 0, 0 = 0, 0 = 0, 0 = 0

DIMENSION UNITS: mm | SCALE: 2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	3.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.1
1 PLACE	±	0.2
0 PLACES	±	0.25

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 614434
DRWN: ECHEONG 2019/03/25
CHK'D: RBAUMAN 2019/03/25
APPR: RBAUMAN 2019/03/25

INITIAL REVISION:
DRWN: ECHEONG 2018/03/01
APPR: RBAUMAN 2018/03/22

molex

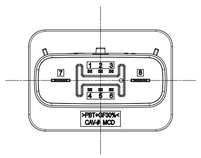
MPDB ASSY DWG G.MARKET

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2003161100	PSD	000	B1

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A1-SIZE	200316			1 OF 2

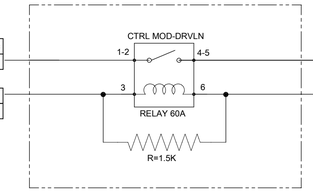
2003161101



8-WAY HEADER KEY_B

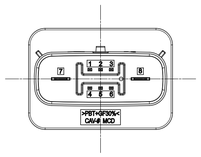
SCHEMATIC

FUSE	W.ASM	W.GAGE	TERM	PIN#
	TBD	8.0	6.3	8
	TBD	0.75	1.5	1
	TBD	0.75	1.5	1



PIN#	TERM	W.GAGE	W.ASM	FUSE
7	8.0	6.0	TBD	
2	1.5	0.75	TBD	

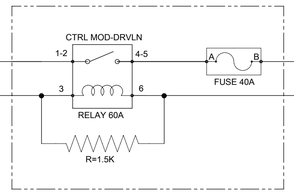
2003161102



8-WAY HEADER KEY_A

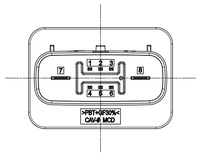
SCHEMATIC

FUSE	W.ASM	W.GAGE	TERM	PIN#
	TBD	4.0	6.3	8
	TBD	0.5	1.5	1



PIN#	TERM	W.GAGE	W.ASM	FUSE
7	6.3	6.0	TBD	40A
2	1.5	1.0	TBD	

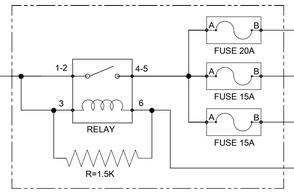
2003161103



8-WAY HEADER KEY_C

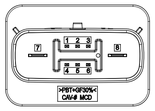
SCHEMATIC

FUSE	W.ASM	W.GAGE	TERM	PIN#
	TBD	6.0	6.3	7



PIN#	TERM	W.GAGE	W.ASM	FUSE
8	6.3	3.0	TBD	20A
2	1.5	1.5	TBD	15A
3	1.5	1.5	TBD	15A
1	1.5	0.35	TBD	

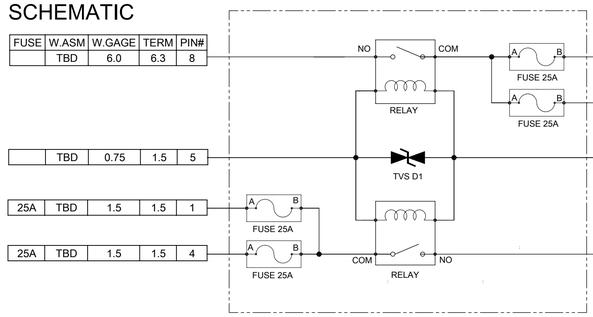
2003161121



8-WAY HEADER KEY_A

SCHEMATIC

FUSE	W.ASM	W.GAGE	TERM	PIN#
	TBD	6.0	6.3	8
	TBD	0.75	1.5	5
25A	TBD	1.5	1.5	1
25A	TBD	1.5	1.5	4



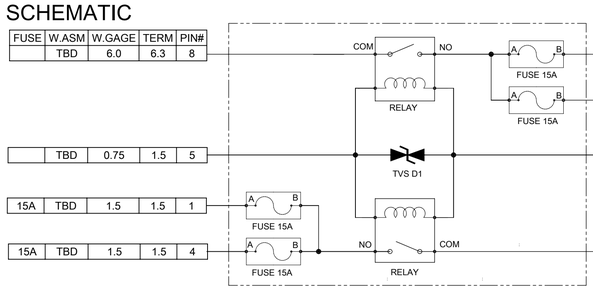
PIN#	TERM	W.GAGE	W.ASM	FUSE
3	1.5	1.5	TBD	25A
6	1.5	1.5	TBD	25A
2	1.5	0.75	TBD	
7	6.3	6.0	TBD	

2003161122

8-WAY HEADER KEY_B

SCHEMATIC

FUSE	W.ASM	W.GAGE	TERM	PIN#
	TBD	6.0	6.3	8
	TBD	0.75	1.5	5
15A	TBD	1.5	1.5	1
15A	TBD	1.5	1.5	4



PIN#	TERM	W.GAGE	W.ASM	FUSE
3	1.5	1.5	TBD	15A
6	1.5	1.5	TBD	15A
2	1.5	0.75	TBD	
7	6.3	6.0	TBD	

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
A = 0	DIMENSION UNITS: mm	SCALE: 1:1	CURRENT REV DESC:	molex
C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			MPDB ASSY DWG G.MARKET
F = 0	ANGULAR TOL ± 3.0 °		EC NO: 614434	PRODUCT CUSTOMER DRAWING
S = 0	4 PLACES ±		DRWN: ECHEONG 2019/03/25	DOCUMENT NUMBER: 2003161100 / DOC TYPE: PSD / DOC PART: 000 / REVISION: B1
= 0	3 PLACES ±		CHK'D: RBAUMAN 2019/03/25	
C = 0	2 PLACES ± 0.1		APPR: RBAUMAN 2019/03/25	
= 0	1 PLACE ± 0.2		INITIAL REVISION:	
= 0	0 PLACES ± 0.25		DRWN: ECHEONG 2018/03/01	
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: RBAUMAN 2018/03/22	
= 0	THIRD ANGLE PROJECTION	DRAWING: A1-SIZE	SERIES: 200316	MATERIAL NUMBER / CUSTOMER / SHEET NUMBER: 2 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2019/03/25 20:30:43