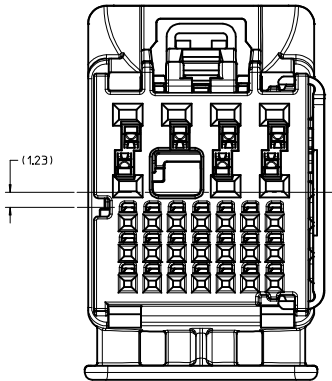
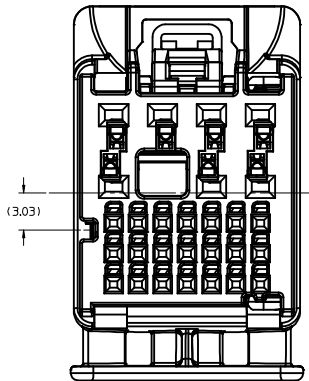
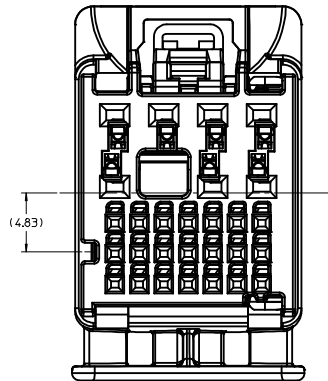




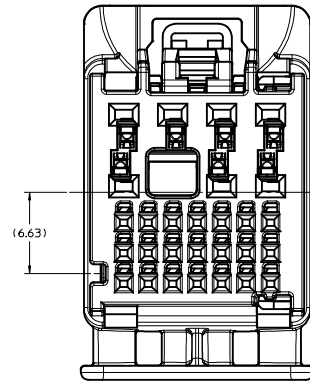
28WAY CONNECTOR ASSY
KEY 1
P/N 1600140001



28WAY CONNECTOR ASSY
KEY 2
P/N 1600140002



28WAY CONNECTOR ASSY
KEY 3
P/N 1600140003



28WAY CONNECTOR ASSY
KEY 4
P/N 1600140004

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:

- a. APPLICATION SPECIFICATION SEE: AS-160014-001
- b. PRODUCT SPECIFICATION SEE: PS-160014-001
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31302-266
- 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)

2. DESIGN - MATERIALS:

- a. SEE BOM TABLE

3. DESIGN - GEOMETRY:

- a. ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
- b. PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
- c. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- e. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- f. MARKED TEXT TO INCLUDE RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
 - 1. LASER ETCHED DATE CODE
 - 1ST THROUGH 2ND DIGIT = CALENDAR YEAR
 - 3RD THROUGH 5TH DIGIT = "DAY #" OF YEAR
 - 6TH THROUGH 7TH DIGIT = HOUR OF DAY
 - 8TH THROUGH 9TH DIGIT = MINUTE OF HOUR
 - 10TH THROUGH 11TH DIGIT = SECOND OF MINUTE

4. DESIGN - MANUFACTURING:

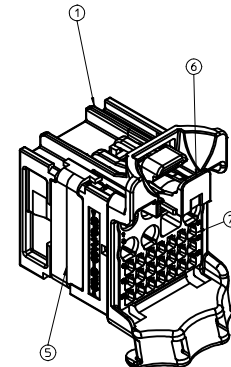
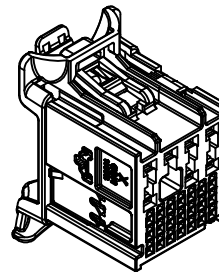
- a. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

MOLEX ASSEMBLY
PART NO.'S

1600140001	KEY 1
1600140002	KEY 2
1600140003	KEY 3
1600140004	KEY 4

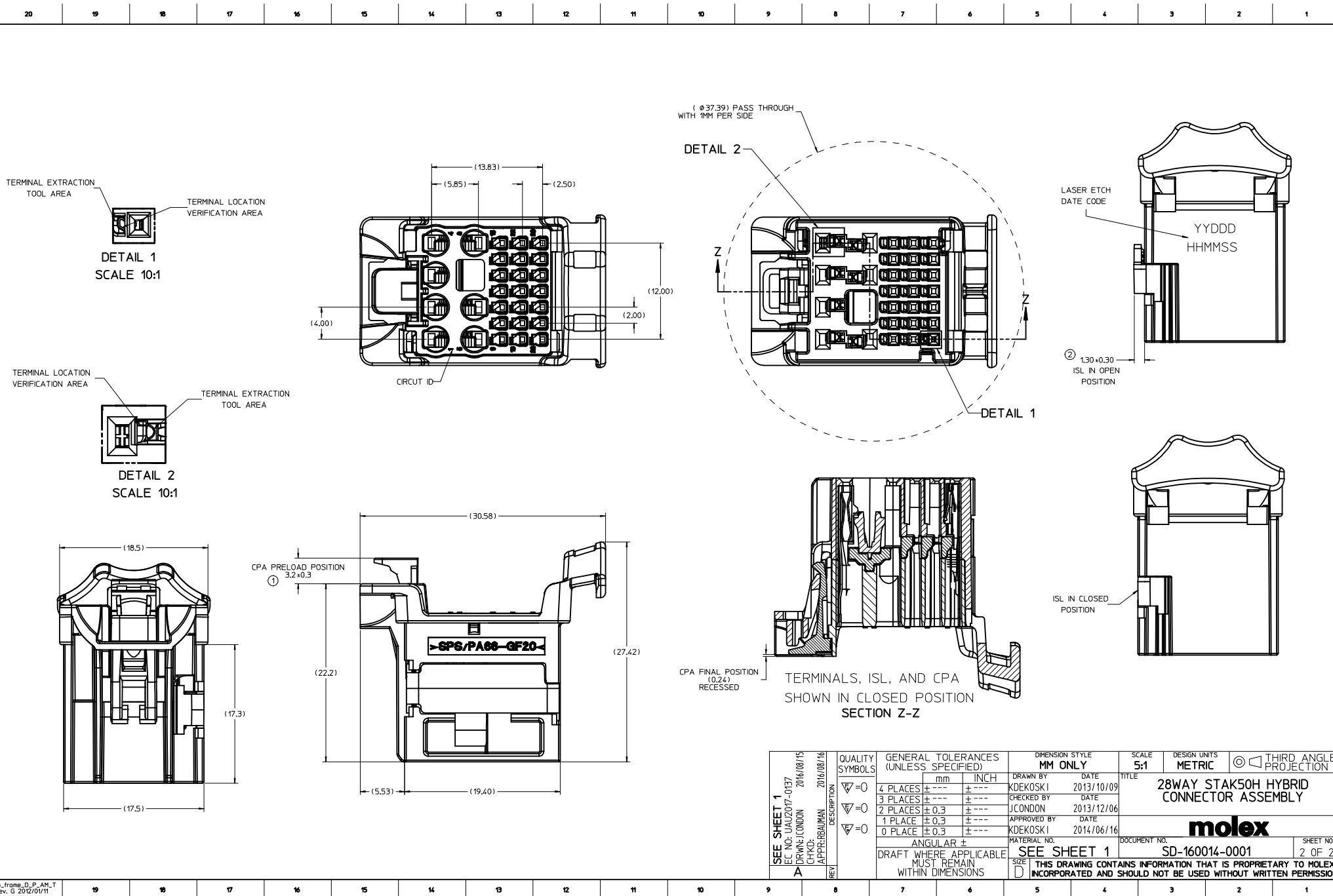
ITEM	DESCRIPTION	COLOR	RECYCLING CODE	WEIGHT (GRAMS)	NO OF ITEMS REQUIRED
1	OUTER SHROUD - KEY 1	DARK GRAY	SPS/PA66-GF20	2.9	1
2	OUTER SHROUD - KEY 2	LT GREEN A	SPS/PA66-GF20	2.9	1
3	OUTER SHROUD - KEY 3	LT GRAY	SPS/PA66-GF20	2.9	1
4	OUTER SHROUD - KEY 4	BLACK	SPS/PA66-GF20	2.9	1
5	ISL	NATURAL	SPS-GF30	0.34	1
6	CPA	NATURAL	PA66-GF50	0.08	1
7	INNER HOUSING	STONE GRAY	SPS/PA-GF20	1.48	1

PART NUMBER	PLATING	SUPPLIER	WIRE GAGE (mm2)	TERMINAL FAMILY	WIRE SPECIFICATION
2-1703930-1	TIN PLATING	TE	0.22 - 0.35	NanoMOS SOCKET CONTACT (0.5 mm)	SAE/ J1128 THIN WALL INSULATION
1-1703930-1	TIN PLATING	TE	0.13 - 0.17	NanoMOS SOCKET CONTACT (0.5 mm)	
13881789	TIN PLATING	DELPHI	0.35 - 0.5	TAXI TERM OCS 1.2	GMW 15626 INSULATION TYPE FLR (REGULAR THIN WALL)
13881788	TIN PLATING	DELPHI	0.75 - 0.8	TAXI TERM OCS 1.2	
SMSA-A031T-M1.2	TIN PLATING	JST	0.5 - 0.75	MSA 1.2mm TERMINAL	
SMSA-A041T-M1.2	TIN PLATING	JST	1.0 - 1.5	MSA 1.2mm TERMINAL	



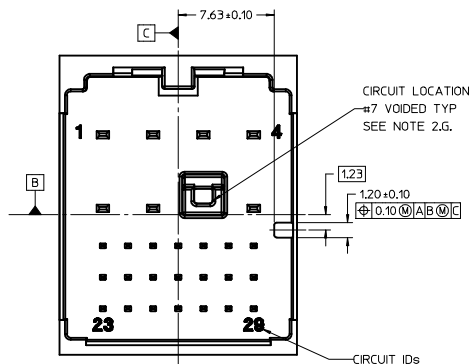
A	UUAU2017-0137 SAP # 10789287 JCONDON 08/13/2016
7	UUAU2016-1182 SAP # 10762453 JCONDON 02/08/2016
6	UUAU2015-1899 SAP # 10698159 JCONDON 06/17/2015
5	UUAU2015-1606 SAP # 10685685 JCONDON 04/23/2015
4	UUAU2015-0824 SAP # XXXXXXX JCONDON 12/05/2014
3	UUAU2014-1923 SAP # XXXXXXX BSCUDDER 05/19/2014
2	UUAU2014-1726 SAP # XXXXXXX CBOWDEN 10/22/2013
1	UUAU2014-0633 SAP # XXXXXXX KDEKOSKI 10/09/2013

SEE REV COLUMN EC NO: UUAU2017-0137 DRAWN/CONDON 2016/08/15 CHKD: APPR:RBAJMAN 2016/08/16	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.3 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± 0.3 ± --- ANGULAR ± 3 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY DATE KDEKOSKI 2013/10/09 CHECKED BY DATE JCONDON 2013/12/06 APPROVED BY DATE	SCALE 5:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE 28WAY STAK50H HYBRID CONNECTOR ASSEMBLY	molex	MATERIAL NO. CHARTED DOCUMENT NO. SD-160014-0001	SHEET NO. 1 OF 2

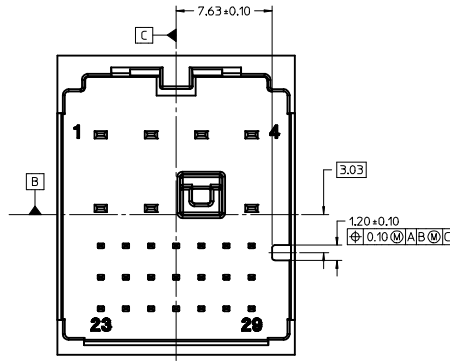


1b_frame_0_P_AM_T
Rev. G 2012/01/11

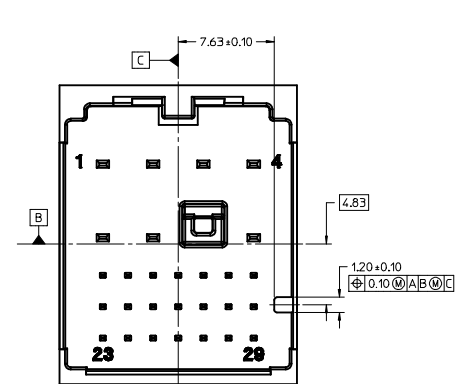
SEE SHEET 1 IEC NO. UAU2017-0137 DRAWN/CONDON CHKD: APPR:RBALMAN REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	28WAY STAK50H HYBRID CONNECTOR ASSEMBLY molex DOCUMENT NO. SD-160014-0001 SHEET NO. 2 OF 2	
				DRAWN BY KDEKOSKI		DATE 2013/10/09	TITLE			
		4 PLACES ± --- ± ---		CHECKED BY JCONDON		DATE 2013/12/06				
		3 PLACES ± --- ± ---		APPROVED BY KDEKOSKI		DATE 2014/06/16				
		2 PLACES ± 0.3 ± ---								
		1 PLACE ± 0.3 ± ---								
		0 PLACE ± 0.3 ± ---								
		ANGULAR ±		MATERIAL NO.		DRAWING NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-160014-0001				
				SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



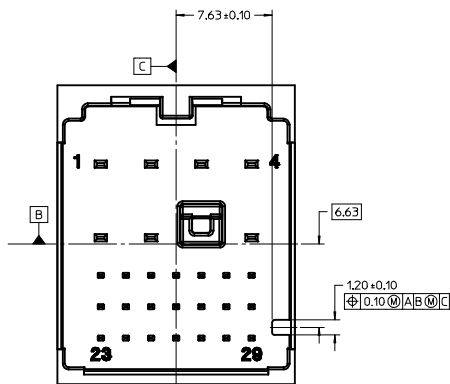
INTERFACE KEY #1
MATING CONNECTOR COLOR: DARK GRAY



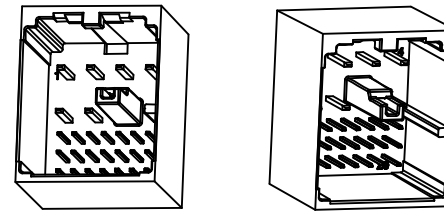
INTERFACE KEY #2
MATING CONNECTOR COLOR: LT GREEN A



INTERFACE KEY #3
MATING CONNECTOR COLOR: LIGHT GRAY



INTERFACE KEY #4
MATING CONNECTOR COLOR: BLACK

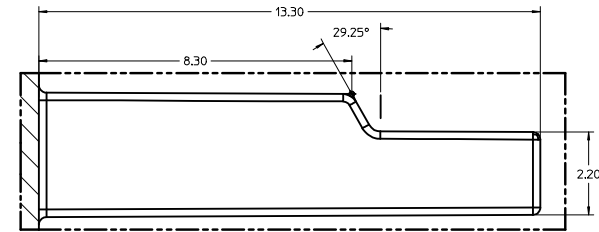
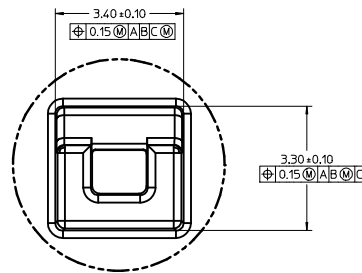
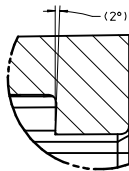
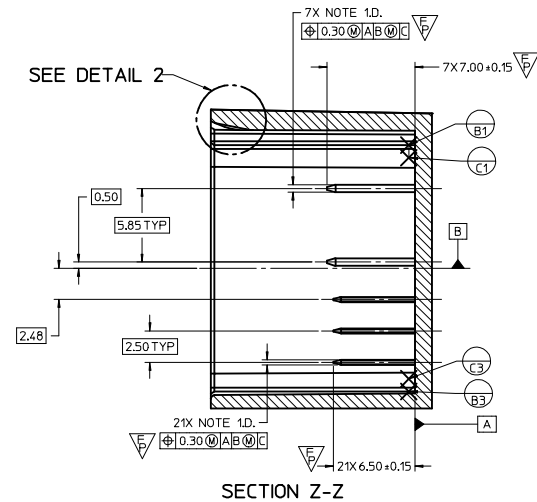
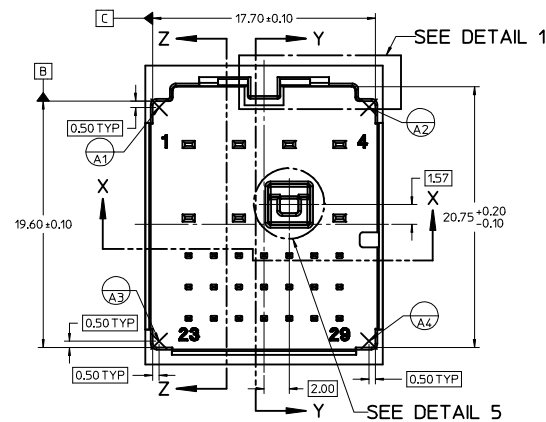
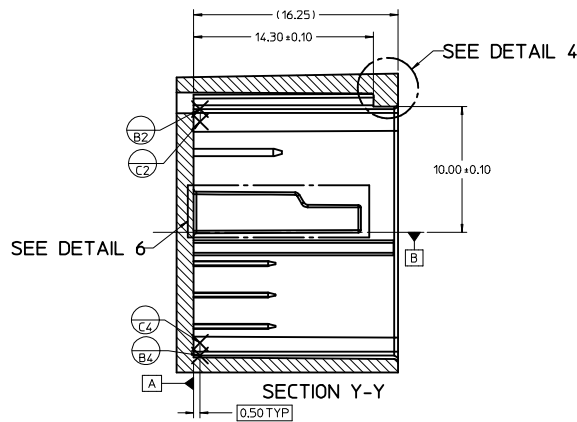
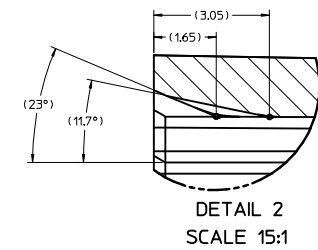
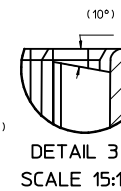
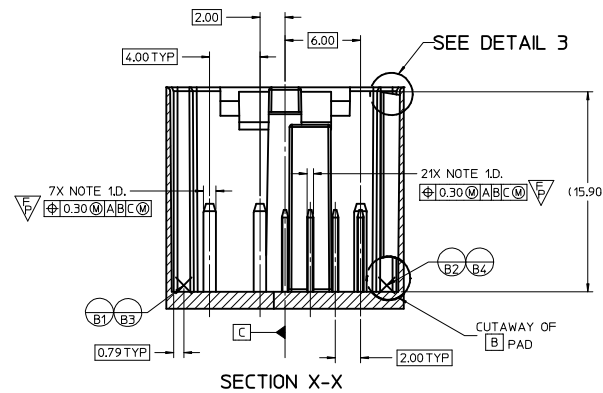
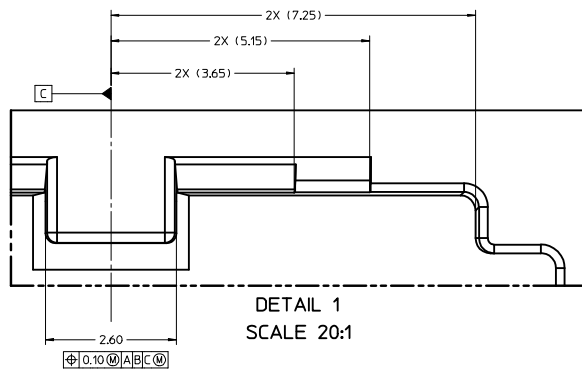


NOTES: VALID UNLESS OTHERWISE SPECIFIED

- DESIGN - MATERIALS:
 - RESIN MATERIAL: PBT+GF30 OR SPS+GF30 OR EQUIVALENT
 - PIN/BLADE MATERIAL: ACCORDING TO USCAR DRAWING EWCAP-001 NOTE B2.
 - PLATING: ACCORDING TO USCAR DRAWING EWCAP-001 TIN REFLOW WITH UNDERPLATE.
 - PIN GEOMETRY ACCORDING TO USCAR DRAWING EWCAP-001 (120-T002 & 050-T001)
- DESIGN - GEOMETRY:
 - ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
 - PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
 - GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
 - GENERAL TOLERANCES:
 - LINEAR: PER DIN 16901 LINEAR CODE B FOR PRECISION ENGINEERING
 - ANGULAR: ±3°
 - EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
 - CIRCUIT LOCATION #7 VOIDED FOR 28WAY INTERFACE
- DESIGN - MANUFACTURING:
 - DRAFT TO BE WITHIN TOLERANCE.

A1	UAU2016-1133 SAP # 10762453 JCONDON 02/02/2016
A	UAU2015-1973 SAP # 10701371 JCONDON 06/30/2015
6	UAU2015-1446 SAP # 10681629 JCONDON 03/25/2015
5	UAU2015-1212 SAP # 10674908 JCONDON 02/06/2015
4	UAU2015-0634 SAP # 10661788 JCONDON 10/22/2014
3	UAU2014-1679 SAP # XXXXXXXX BSCUDDER 04/28/2014
2	UAU2014-1221 SAP # XXXXXXXX MYOUNG01 01/21/2014
1	UAU2014-0715 SAP # XXXXXXXX MYOUNG01 11/14/2013

SEE REV COLUMN EC NO: UAU2016-1133 DRAWN: JCONDON CHKD: APPR: KDEKOSKI REV: A1	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±--- 3 PLACES ±--- 2 PLACES ±--- 1 PLACE ±--- 0 PLACE ±--- ANGULAR ±--- DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY MYOUNG01 CHECKED BY JCONDON APPROVED BY KDEKOSKI MATERIAL NO. N/A	SCALE 5:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE 28WAY STAK50H INTERFACE DRAWING molex DOCUMENT NO. SD-160014-002	SHEET NO. 1 OF 3



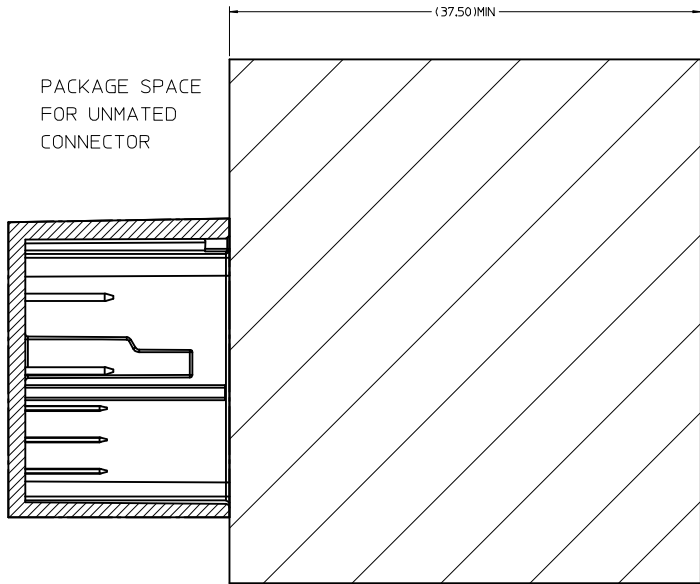
SEE SHEET 1 EC NO.: U2016-1982 DRAWN: LONDON CHK'D: APPR: KDEOSKI 2016/07/02 2016/07/24	QUALITY SYMBOLS	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					MM ONLY		5:1	METRIC		
			4 PLACES ±		DRAWN BY MYUNG01		DATE 2013/11/14		TITLE 28WAY STAK50H INTERFACE DRAWING	
			3 PLACES ±		CHECKED BY JCONDON		DATE 2013/12/04			
			2 PLACES ±		APPROVED BY KDEOSKI		DATE 2014/01/02			
			1 PLACE ±		MATERIAL NO.		DOCUMENT NO.			
			0 PLACE ±		N/A		SD-160014-002			
			ANGULAR ±		SIZE A1		SHEET NO. 2 OF 3			
			DRAWN WHERE APPLICABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			MUST REMAIN WITHIN DIMENSIONS							

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

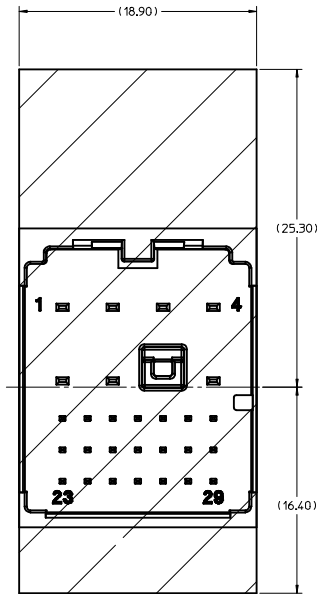
M
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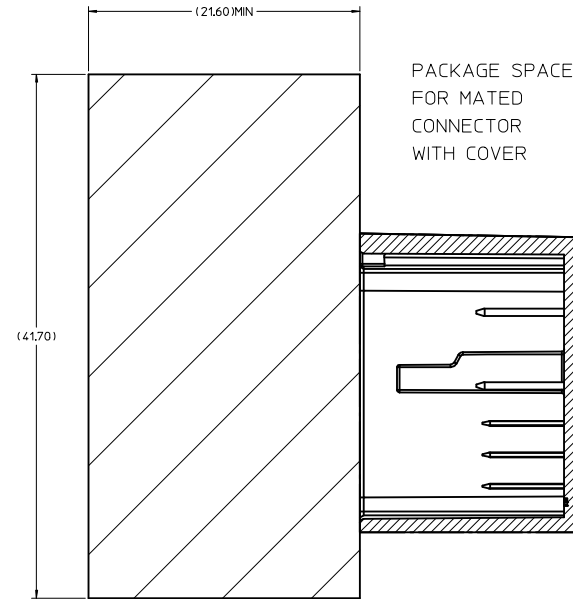
PACKAGE SPACE
FOR UNMATED
CONNECTOR



PACKAGE SPACE
FOR CONNECTOR



PACKAGE SPACE
FOR MATED
CONNECTOR
WITH COVER



SEE SHEET 1 EC NO: UAU2016-182 DRAWN: JCONDON CHKD: APPR: KDEKOSKI A1	2016/03/24	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±---+--- 3 PLACES ±---+--- 2 PLACES ±---+--- 1 PLACE ±---+--- 0 PLACE ±---+--- ANGULAR ±---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY	DRAWN BY MYOUNG01 CHECKED BY JCONDON APPROVED BY KDEKOSKI MATERIAL NO. N/A	DATE 2013/11/14 2013/12/04 2014/01/02	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE 28WAY STAK50H INTERFACE DRAWING	DOCUMENT NO. SD-160014-002	SHEET NO. 3 OF 3

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1