BILL OF MATERIAL

ITEM	PART DESCRIPTION	MATERIAL	COLOR			
1	32CKT RA S CMC HOUSING BLK	PBT GF 30	BLACK	1	-	-
1	32CKT RA S CMC HOUSING GRY	PBT GF 30	GREY	-	1	-
1	32CKT RA S CMC HOUSING BRN	PBT GF 30	BROWN	-	-	1
2	CMC STRAIGHT GUIDING PLATE 32CKT	PBT GF 30-V0	BLACK	1	1	1
3	32CKT RA S CMC GASKET	SILICONE	RED	1	1	1
4	CMC HEADER PIN 1.5 W/PLT ROW 4	C26000 3/4H	N/A	2	2	2
5	CMC HEADER PIN 1.5 W/PLT ROW 3	C26000 3/4H	N/A	2	2	2
6	CMC HEADER PIN 1.5 W/PLT ROW 2	C26000 3/4H	N/A	2	2	2
7	CMC HEADER PIN 1.5 W/PLT ROW 1	C26000 3/4H	N/A	2	2	2
8	CMC HEADER PIN 0.64 W/BANDOLIER ROW 4	C26000 3/4H	N/A	6	6	6
9	CMC HEADER PIN 0.64 W/BANDOLIER ROW 3	C26000 3/4H	N/A	6	6	6
10	CMC HEADER PIN 0.64 W/BANDOLIER ROW 2	C26000 3/4H	N/A	6	6	6
11	CMC HEADER PIN 0.64 W/BANDOLIER ROW 1	C26000 3/4H	N/A	6	6	6
12	GREY DOT PAINT		N/A	-	1	-
12	BROWN DOT PAINT		N/A	-	-	1
	BANDOLIER		N/A			

MOLEX ASSEMBLY PART NO	PART DESCRIPTION	32 WAY POCKET	32 WAY POCKET	32 WAY POCKET
643341001	32CKT_RA_S_CMC_HEADER_ASSY BLK	BLACK KEY		
643341002 (NOT TOOLED)	32CKT_RA_S_CMC_HEADER_ASSY GRY		GREY KEY	
643341003 (NOT TOOLED)	32CKT_RA_S_CMC_HEADER_ASSY BRN			BROWN KEY

NOTES: VALID UNLESS OTHERWISE SPECIFIED

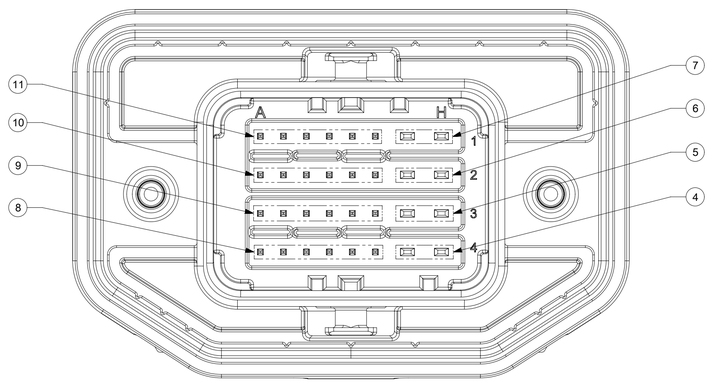
1. GENERAL:
   - 1.1 APPLICATION SPECIFICATION SEE: 643340000-AS PS 000
   - 1.2 PRODUCT SPECIFICATION SEE: 643340000-PS PS 000
   - 1.3 PACKAGING SPECIFICATION PER MOLEX DRAWING: 643341000-PK PDD 000
   - 1.4 PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: 201404-0015 (INTERNAL)
   - 1.5 DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

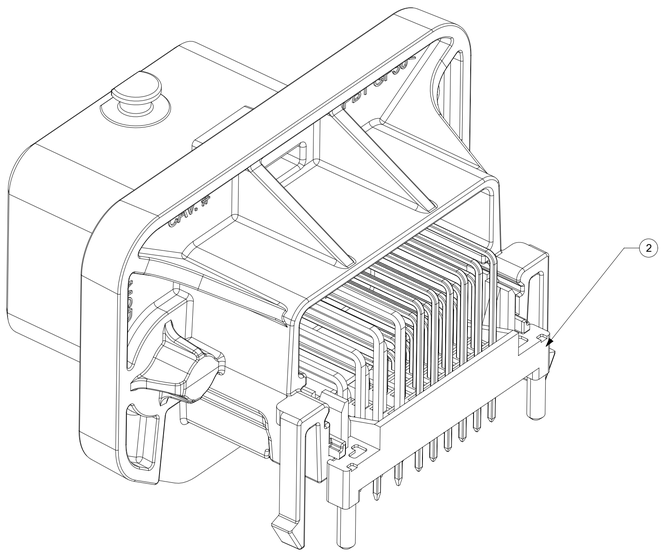
2. DESIGN - MATERIALS:
   - 2.1 SEE BOM TABLE

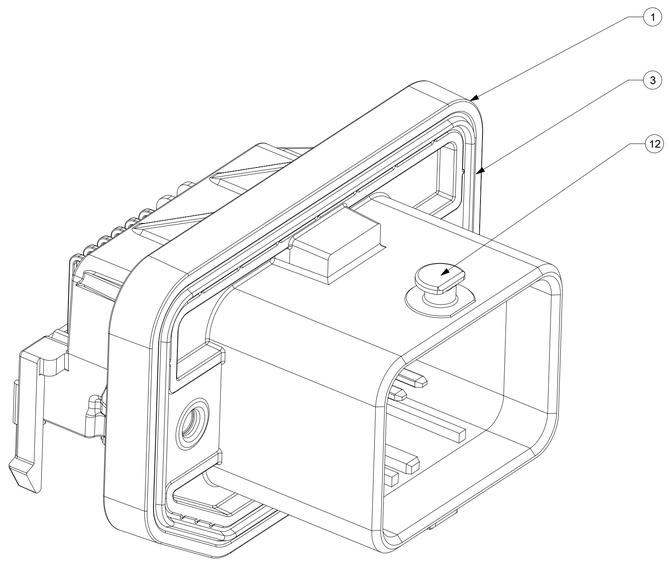
3. DESIGN - GEOMETRY:
   - 3.1 THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
   - 3.2 THE 3-D CAD DATA IS MASTER FOR THIS PART AND IS TO BE USED TO ESTABLISH DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING. ANY DIMENSIONS UNDERLINED INDICATE A CONFLICT WITH THE MODEL.
   - 3.3 PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
   - 3.4 GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009
   - 3.5 EDGES OF UNDEFINED SHAPE PER ISO 13715
   - 3.6 DIMENSIONS AND TOLERANCES APPLY BEFORE AND AFTER PLATING

4. DESIGN - MANUFACTURING:
   - 4.1 ANY PROCESS LUBRICANT REMAINING ON THE TERMINAL MUST NOT VARNISH OR DEGRADE ITS ELECTRICAL PERFORMANCE AS DEFINED IN THE PRODUCT SPEC. PROCESS LUBRICANTS SHALL BE APPROVED BY THE RESPONSIBLE ENGINEER.
   - 4.2 ALLOWABLE BURR ON TERMINALS: 0.05 MAX. NO BURRS ALLOWED AT MATING AREA AS AT PCB SOLDERING AREA.
   - 4.3 ALLOWED CAMBER: 6.35mm PER 457mm
   - 4.4 ALLOWED TWIST: 45° PER 1 METER
   - 4.5 MAXIMUM 3 SPLICES PER REEL
   - 4.6 PART TO BE FREE OF TOOL MARKS AS NOTED
   - 4.7 VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

5. INTERFACE DEFINITION:
   - 5.1 REFER TO DRAWING SD-98644-006







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

DIMENSION UNITS	SCALE
MM	3:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	°
4 PLACES	±	0.01
3 PLACES	±	0.03
2 PLACES	±	0.05
1 PLACE	±	0.1
0 PLACES	±	0.15

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 674884

DRWN:	GDONFACK	2021/08/16
CHK'D:	OVERCHERE	2021/08/16
APPR:	OPLESSIS	2021/08/23

INITIAL REVISION:

DRWN:	NLI106	2017/12/18
APPR:	SLAFAURE	2018/07/04

FIRST ANGLE PROJECTION

DRAWING: A1-SIZE

SERIES: 64334

molex

32CKT RA S CMC HEADER

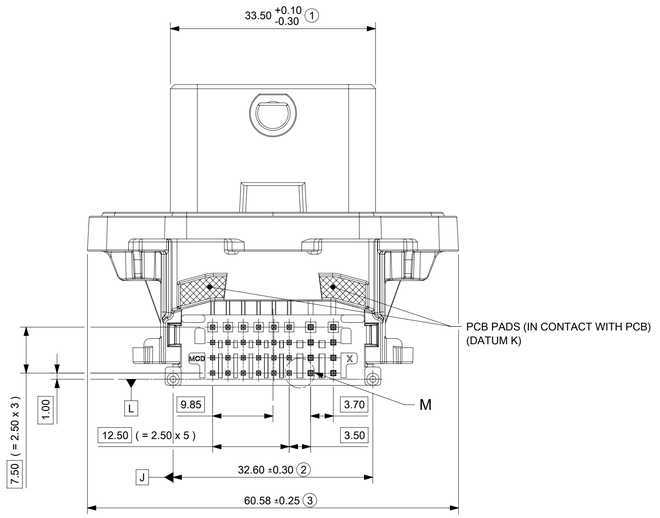
PRODUCT CUSTOMER DRAWING

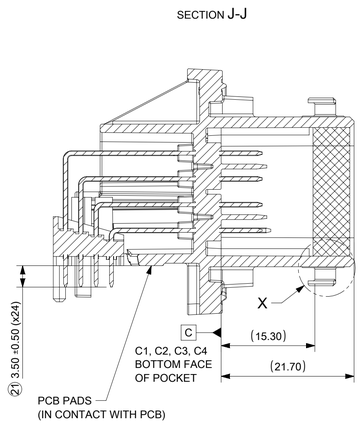
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
643341000	PSD	001	A6

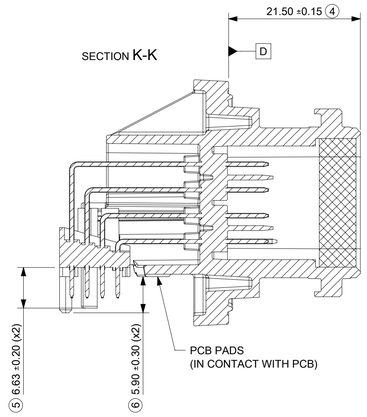
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 3

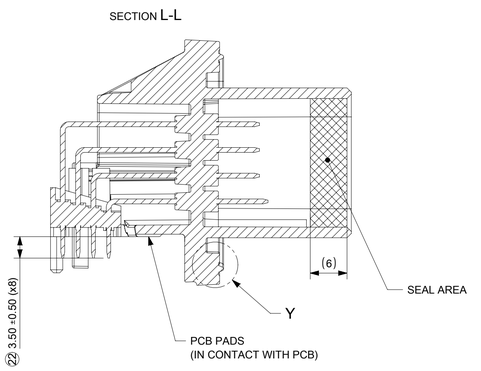
DOCUMENT STATUS	P1	RELEASE DATE	2021/08/23 12:56:08

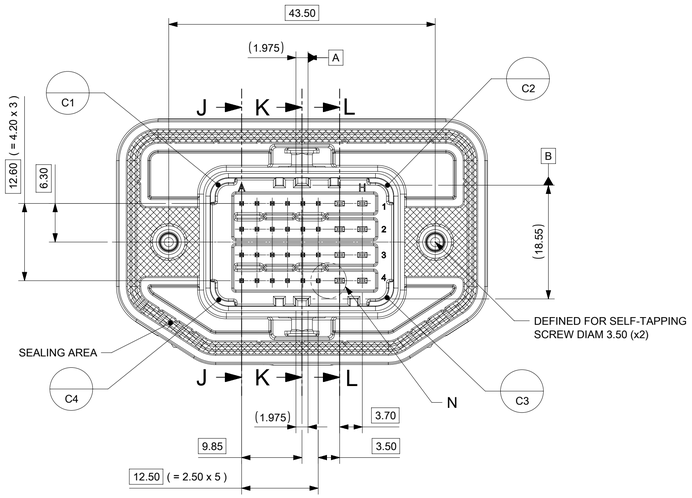
COPYRIGHT, molex-llc-prod-A1
DECOUPLING 24
DATE: 20180119

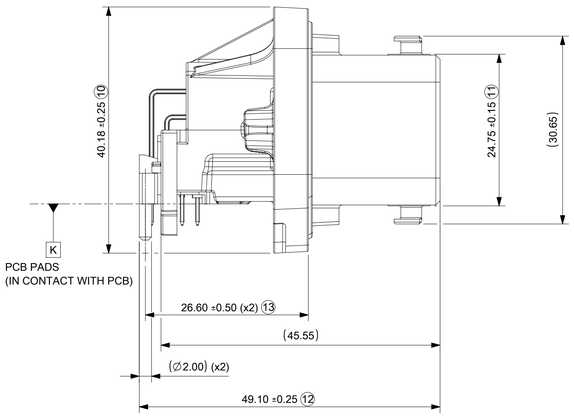


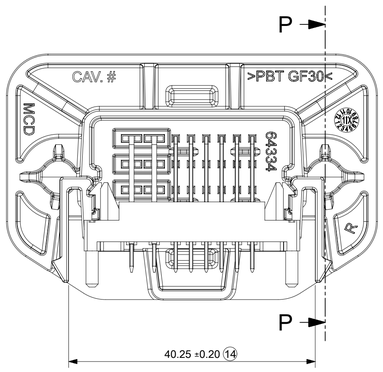


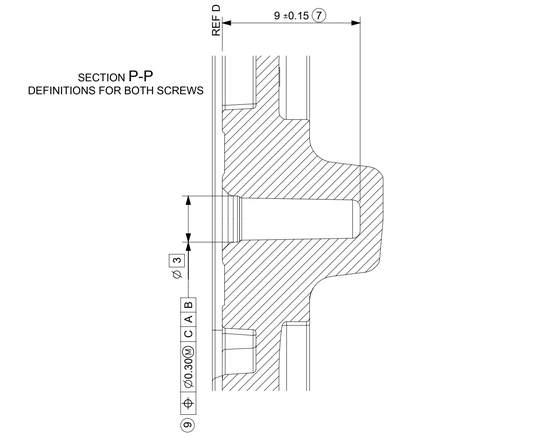


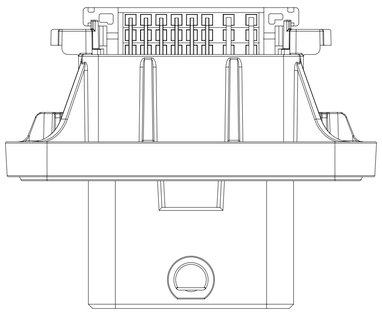


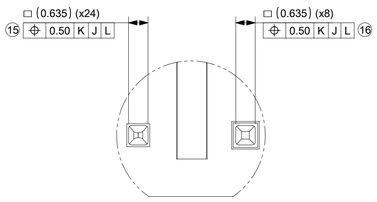


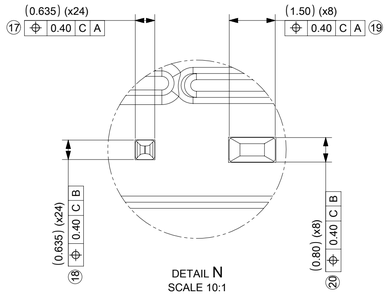


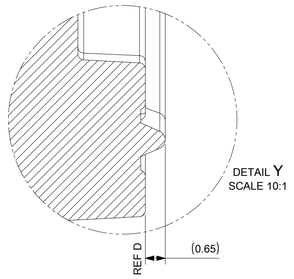


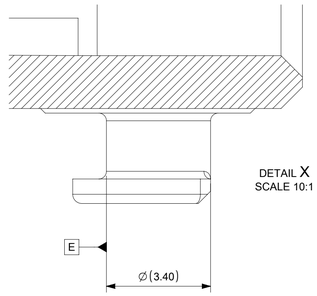












SPECIAL CHARACTERISTICS RELATED TO THE RECEPTACLE INTERFACE			
RECEPTACLE INTERFACE DRAWING	BALLOON	DIMENSION	FUNCTION
32CKT SD-98644-006	11	21 +/-0.1	SEALING
	30	30 +/-0.1	
	35	4x R3 +/-0.1	
	57	6.7 +/-0.2	PIN HEIGHT
	72	6.7 +/-0.2	
	86	8.1 +/-0.2	

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	±	°
4 PLACES	±	0.01
3 PLACES	±	0.03
2 PLACES	±	0.05
1 PLACE	±	0.1
0 PLACES	±	0.15

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 674884
DRWN: GDONFACK 2021/08/16
CHK'D: OVERCHERE 2021/08/16
APPR: OPLESSIS 2021/08/23

INITIAL REVISION:
DRWN: NLI106 2017/12/18
APPR: SLAFAURE 2018/07/04

molex

32CKT RA S CMC HEADER

PRODUCT CUSTOMER DRAWING

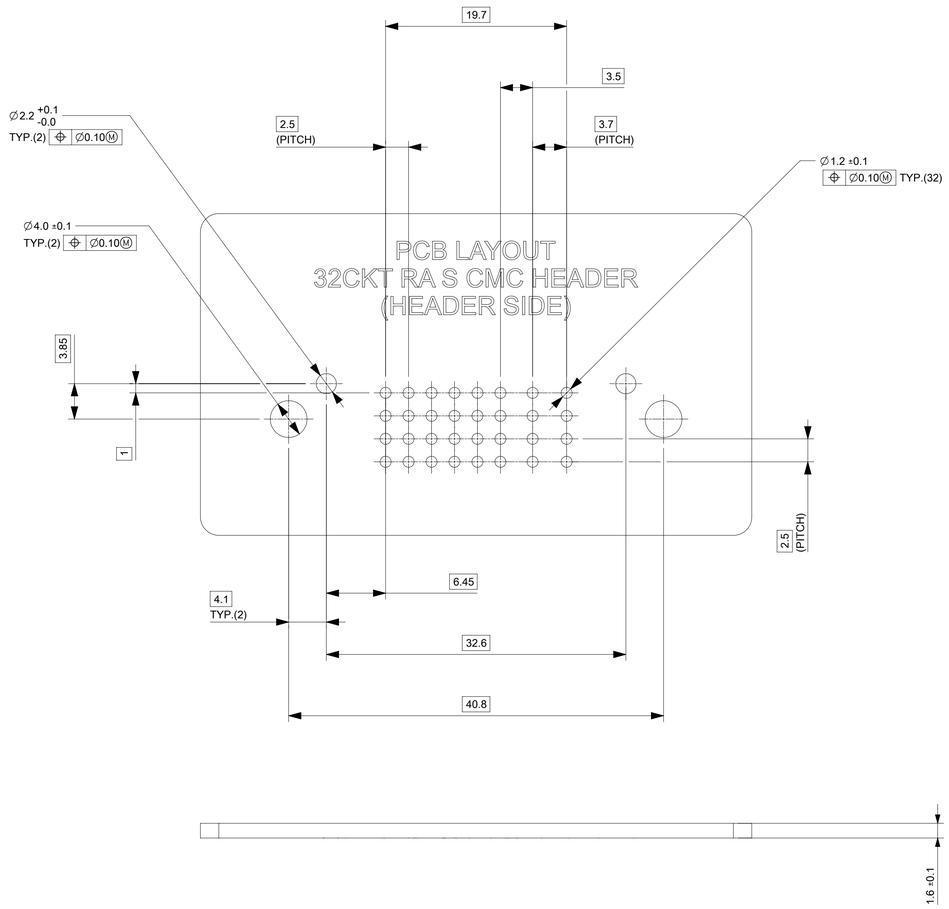
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
643341000	PSD	001	A6

FIRST ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A1-SIZE	64334	SEE TABLE	GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2021/08/23 12:56:08

FORMAT: molex-hi-print-A1
TEMPLATE: 1.0
DATE: 2018/07/18

RECOMMENDED PCB PAYOUT (COMPONENT SIDE)
THICKNESS: 1.6±0.1



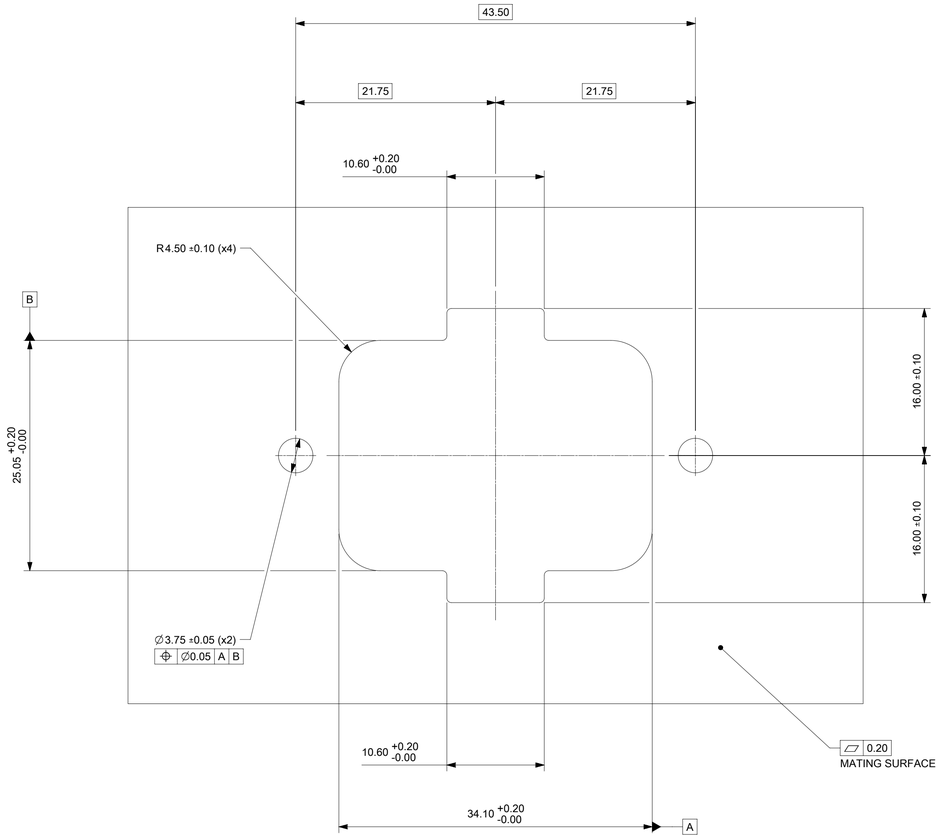
NOTES:
1. THE VIEW 'RECOMMENDED PCB LAYOUT' SHOW STHESECTION OF THE HOLE POSITION CONCERNING THE HEADER-PIN, GUIDING AND LOCKING LAYOUT.

2. THIS VIEW OF THE HOLE PATTERN DOESN'T POINT TO THE ABSOLUTE POSITION ON THE PCB.

3. THE HOLE PATERN IS THE COPY OF THE HEADER LAYOUT.

4. PLEASE COMBINE THE TWO ELEMENTS
(HEADER AND VIEW OF THE HOLE PATTERN)
TO CREATE PCB LAYOUT

RECOMMENDED PANEL PAYOUT



NOTES:
1. REQUIRED MATING SURFACE FINISH: Ra 3.0µm MAX OR POLISHED.

2. RECOMMENDED SCREW SIZE: SELF-TAPPING SCREW DIAM 3.5 WITH ENGAGEMENT LENGTH 6MM MINI.

3. RECOMMENDED PANEL THICKNESS: 2MM TO 4MM.

4. RECOMMENDED PANEL MATERIAL: METAL.

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

DIMENSION UNITS	SCALE
MM	3:1

GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	°
4 PLACES	±	0.01
3 PLACES	±	0.03
2 PLACES	±	0.05
1 PLACE	±	0.1
0 PLACES	±	0.15

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 674884
DRWN: GDONFACK 2021/08/16
CHK'D: OVERCHERE 2021/08/16
APPR: OPLESSIS 2021/08/23

INITIAL REVISION:
DRWN: NLI106 2017/12/18
APPR: SLAFAURE 2018/07/04

molex

32CKT RA S CMC HEADER

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
643341000	PSD	001	A6

FIRST ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A1-SIZE	64334	SEE TABLE	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2021/08/23 12:56:08