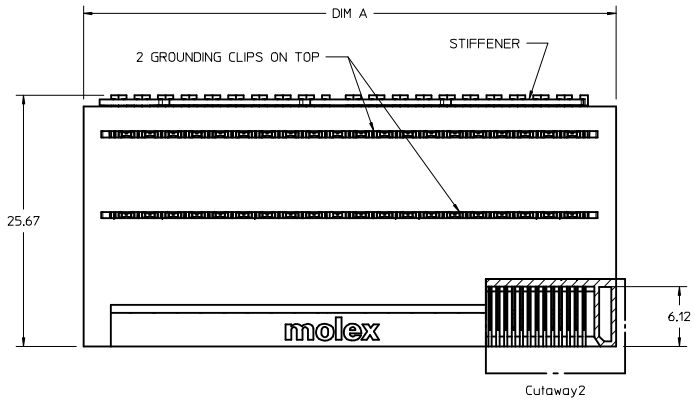
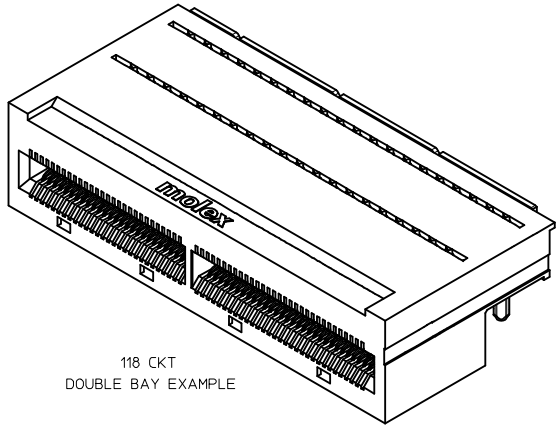
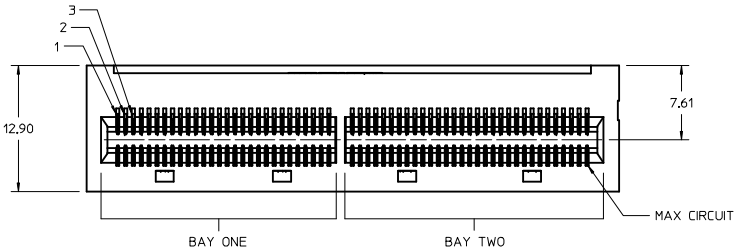
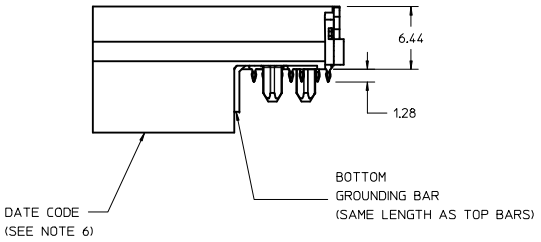








170082-****

NUMBER OF CIRCUITS

PLATING:
1 = 0.76 MICROMETERS (30 MICROINCHES) GOLD
9 = 0.38 MICROMETERS (15 MICROINCHES) GOLD

1 = 3 GROUND CLIPS / GROUND WAFERS NOT SINGULATED
2 = 3 GROUND CLIPS / GROUND WAFERS SINGULATED
3 = 2 CLIPS ON TOP / GROUND WAFERS NOT SINGULATED
5 = 2 CLIPS ON TOP / GROUND WAFERS SINGULATED
6 = NO GROUND CLIPS / GROUND WAFERS NOT SINGULATED
7 = NO GROUND CLIPS / GROUND WAFERS SINGULATED

NOTES:

1. MATERIAL -
   CONNECTOR HOUSING: GLASS FILLED LCP, 94V-0, BLACK
   OVERMOLDING ON TERMINALS: GLASS FILLED LCP, 94V-0, BLACK
   TERMINALS: COPPPER ALLOY, SPRING TEMPER
   GROUNDING BAR: COPPER ALLOY
   STIFFENER: 400 SERIES STAINLESS

2. TERMINAL FINISH (LEAD-FREE)
   CONTACT AREA: 0.38µm OR 0.76µm HARD GOLD OVER 3.8µm MIN NICKEL.
   COMPLIANT PIN AREA: .075-1.50µm MATTE TIN OVER 1.25µm MIN. NICKEL.

3. REFER TO PRODUCT SPEC. PS-170305-0001 FOR ALL ELECTRICAL, MECHANICAL AND ENVIROMENTAL SPECIFICATIONS.

4. REFER TO PK-170082-0002 FOR ALL PACKAGING SPECIFICATIONS.

5. REFER TO AS-170305-0001 FOR ALL APPLICATION INFORMATION.

6. REFER TO AS-170305-0002 FOR ROUTING GUIDE INFORMATION.

7. DATE CODE AND ASSEMBLY PART NUMBER TO BE LASER ETCHED OR ON LABEL LOCATED ON THE BOTTOM OF THE PART. DATE CODE TO BE IN THE FORMAT OF, DAY OF THE YEAR AND LAST DIGIT OF THE YEAR, (DDDYY).

PART NUMBER	CIRCUITS	TOOLED	BAY	DIM A	BAY ONE	BAY TWO	BAY THREE	DIM B	DIM C	DIM D	DIM E
170082-**50	50	NO	SINGLE	25.68	50 CIRCUITS	N/A	N/A	22.60	21.00	N/A	N/A
170082-**62	62	NO	SINGLE	30.48	62 CIRCUITS	N/A	N/A	27.40	25.80	N/A	N/A
170082-**80	80	NO	SINGLE	37.68	80 CIRCUITS	N/A	N/A	34.60	33.00	N/A	N/A
170082-**98	98	NO	SINGLE	44.88	98 CIRCUITS	N/A	N/A	41.80	40.20	N/A	N/A
170082-**18	118	YES	DOUBLE	54.48	56 CIRCUITS	62 CIRCUITS	N/A	51.40	23.70	26.10	N/A
170082-**54	154	NO	DOUBLE	68.88	74 CIRCUITS	80 CIRCUITS	N/A	65.80	30.90	33.30	N/A
170082-**74	174	NO	TRIPLE	78.48	56 CIRCUITS	62 CIRCUITS	56 CIRCUITS	75.40	26.40	23.70	50.10
170082-**16	216	SEE DRAWING SD-170082-0216									
170082-**46	246	NO	TRIPLE	107.28	80 CIRCUITS	86 CIRCUITS	80 CIRCUITS	104.20	36.00	33.30	69.30

UPDATE PKG PRINT
EC NO: UCP2015-0939
DRWN:MWOLFE 2015/01/29
CHKD:MPOFF 2015/01/29
APPR:SMILLER 2015/02/02
DESCRIPTION
REV: C

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

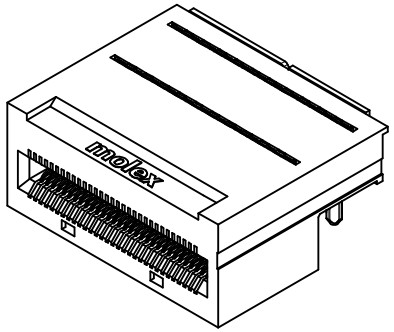
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

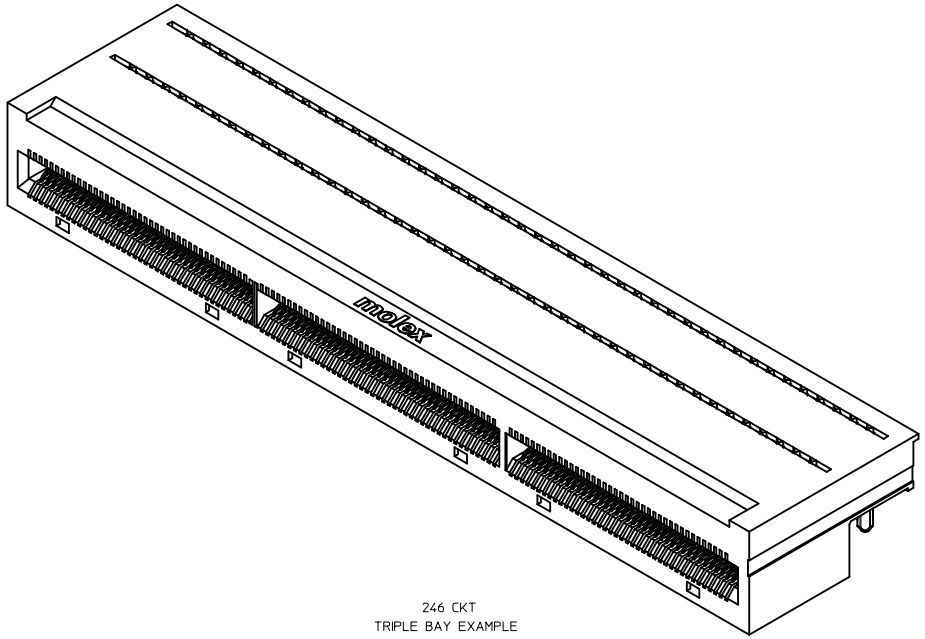
DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: MWOLFE DATE: 2013/11/13
CHECKED BY: MPOFF DATE: 2014/05/27
APPROVED BY: SMILLER DATE: 2014/08/26
MATERIAL NO.: SEE TABLE

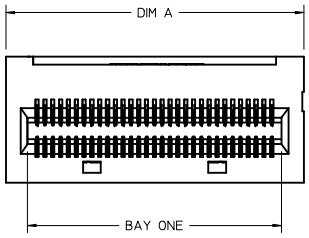
TITLE: .093 COPLANAR SALES DRAWING
molex
DOCUMENT NO.: SD-170082-001
SHEET NO.: 1 OF 6
SIZE: D

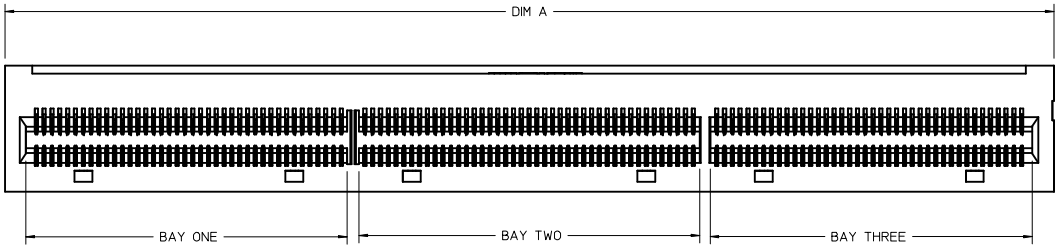


62 CKT
SINGLE BAY EXAMPLE



246 CKT
TRIPLE BAY EXAMPLE





SEE SHEET 1
EC NO: UCP2015-0939 2015/01/29
DRWN:MWOLFE 2015/01/29
CHKD:MPOFF 2015/02/02
APPR:SMILLER
DESCRIPTION
REV
C

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

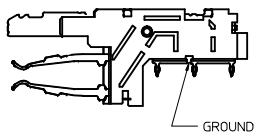
DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

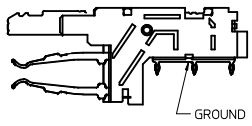
DRAWN BY: MWOLFE DATE: 2013/11/13
CHECKED BY: MPOFF DATE: 2014/05/27
APPROVED BY: SMILLER DATE: 2014/08/26
MATERIAL NO.: SEE TABLE

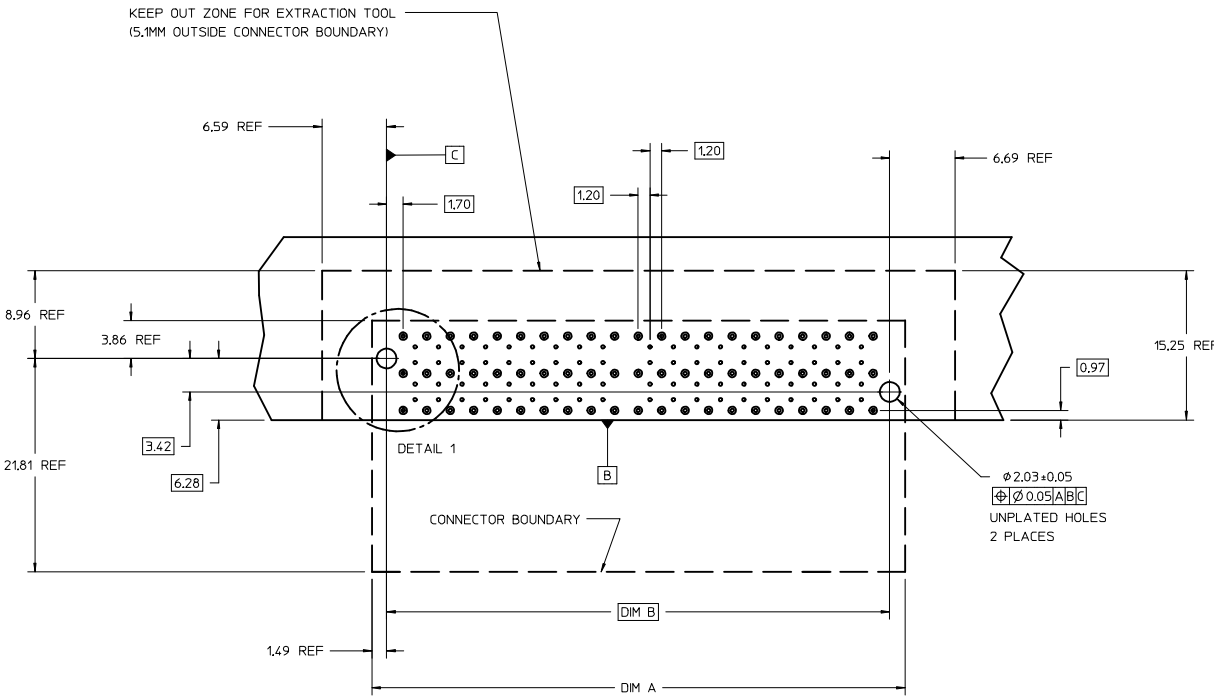
TITLE: .093 COPLANAR SALES DRAWING

molex

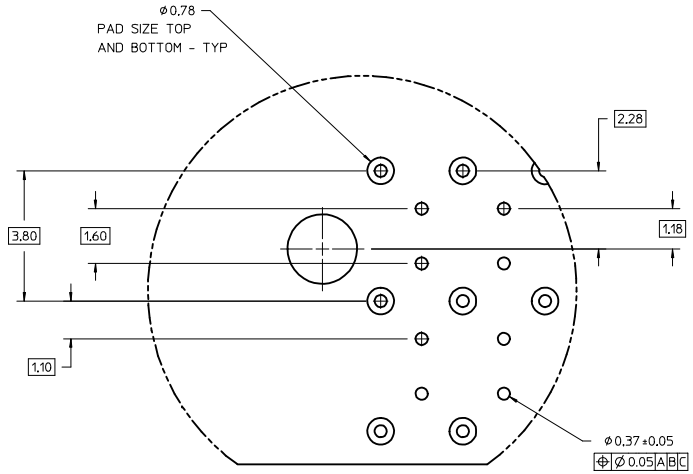
DOCUMENT NO.: SD-170082-001
SHEET NO.: 2 OF 6
SIZE: D







118 CKT
DOUBLE BAY EXAMPLE



DETAIL 1
SCALE 14:1

RECOMMENDED TAIL PATTERN
SEE AS-170305-0002 FOR
INTERNAL ANTIPADS SPECIFICATION

SEE SHEET 1	2015/01/29		
EC NO: UCP2015-0939	2015/01/29		
DRWN:MWOLFE	2015/02/02		
CHKD:MPOFF			
APPR:SMILLER			
DESCRIPTION			
REV			
C			

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

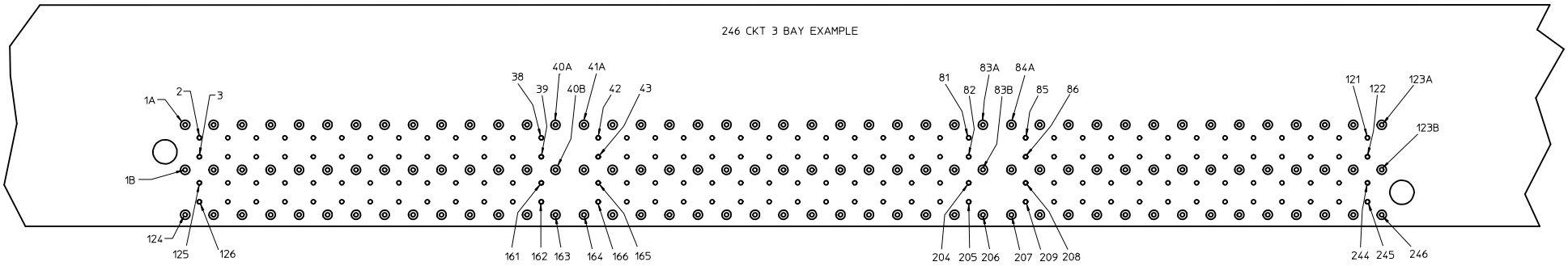
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

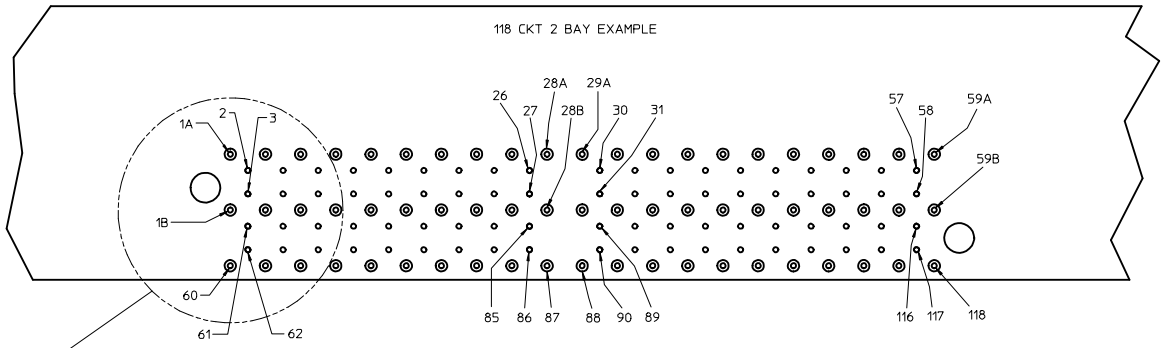
DIMENSION STYLE	MM ONLY
SCALE	4:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	MWOLFE 2013/11/13
CHECKED BY / DATE	MPOFF 2014/05/27
APPROVED BY / DATE	SMILLER 2014/08/26
MATERIAL NO.	SEE TABLE
TITLE	.093 COPLANAR SALES DRAWING
DOCUMENT NO.	SD-170082-001
SHEET NO.	3 OF 6
SIZE	D

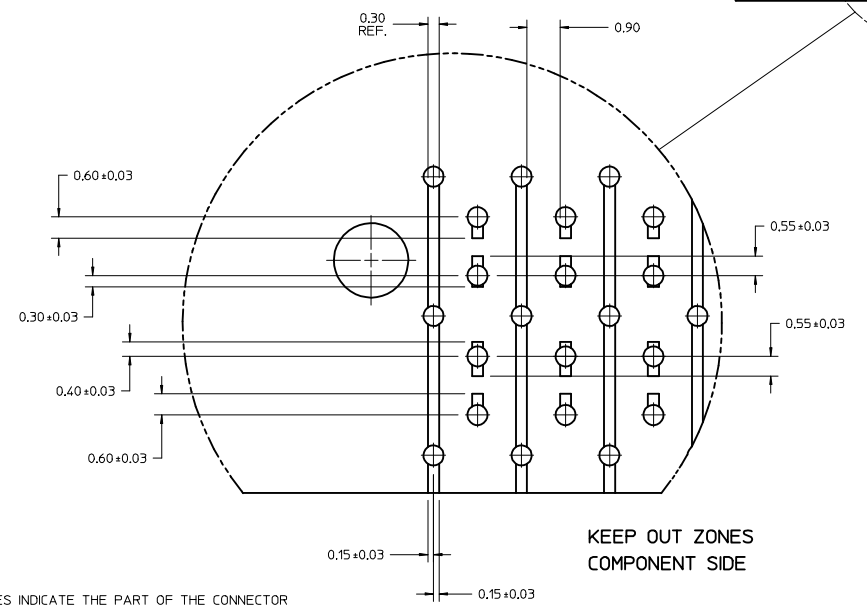
molex

246 CKT 3 BAY EXAMPLE



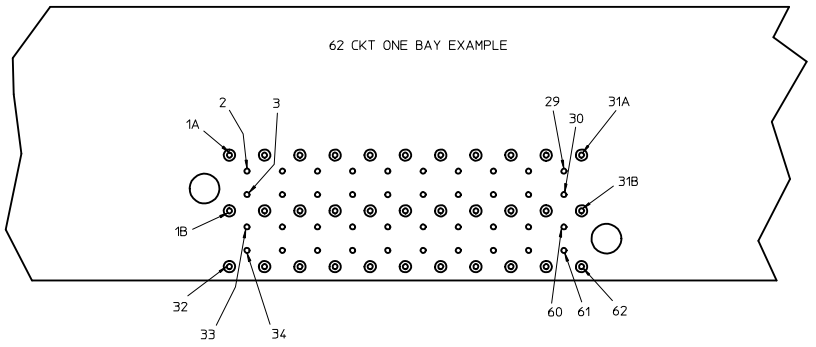
118 CKT 2 BAY EXAMPLE





KEEP OUT ZONES
COMPONENT SIDE

62 CKT ONE BAY EXAMPLE



NOTE:

1. KEEP-OUT ZONES INDICATE THE PART OF THE CONNECTOR THAT MAY COME IN CONTACT WITH THE PCB. IT IS RECCOMENDED TO ROUTE TRACES AWAY FROM THESE AREAS.

SEE SHEET 1	DESCRIPTION	REV
EC NO: UCP2015-0939	2015/01/29	
DRWN:MWOLFE	2015/01/29	
CHKD:MPOFF	2015/02/02	
APPR:SMILLER		

QUALITY SYMBOLS: ▽=0, ▽=0, ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

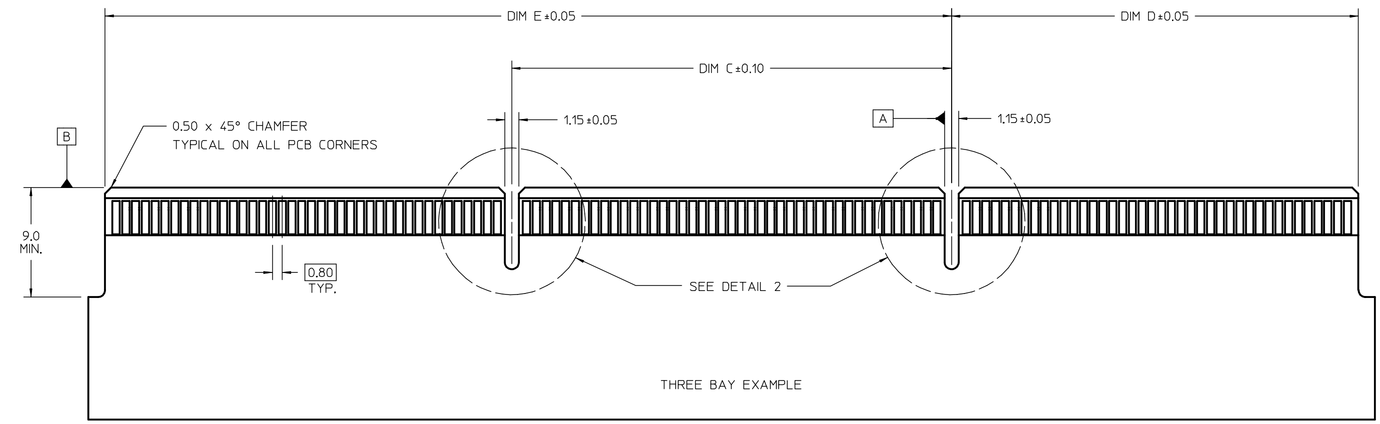
ANGULAR ±1/2°

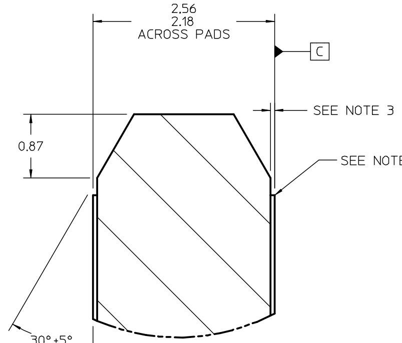
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	4:1
DESIGN UNITS	METRIC
PROJECTION	THIRD ANGLE
DRAWN BY	MWOLFE
DATE	2013/11/13
CHECKED BY	MPOFF
DATE	2014/05/27
APPROVED BY	SMILLER
DATE	2014/08/26
MATERIAL NO.	SEE TABLE
TITLE	.093 COPLANAR SALES DRAWING
DOCUMENT NO.	SD-170082-001
SHEET NO.	4 OF 6
SIZE	D

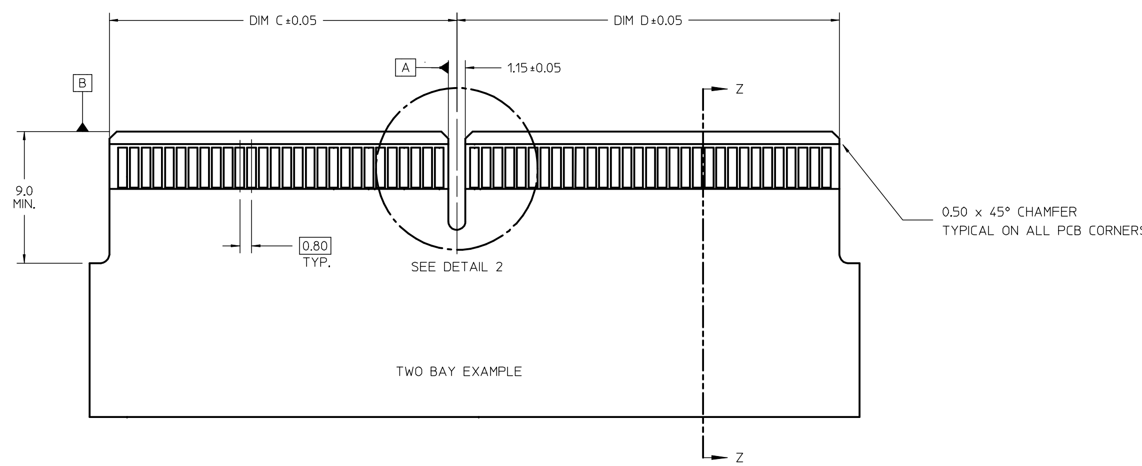
NOTE:

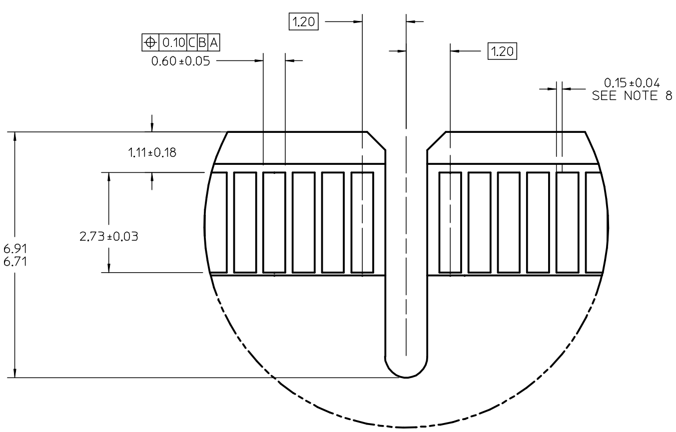
1. CONNECTOR LAND CONDITIONS SHALL MEET THE MOST CURRENT REVISION OF PCB SPECIFICATION IPC-6012C-2010 SECTION 3.5.4.4.
2. DIMENSIONS APPLY TO PADS ON BOTH SIDES OF THE BOARD.
3. THE THICKNESS OF THE OUTER METAL LAYERS, INCLUDING FOIL, COPPER PLATING, AND THE PROTECTIVE SURFACE, SHALL BE 0.066 MAX.
4. CHAMFER ROUGHNESS NOT TO EXCEED 3.17 MICROMETERS.
5. CHAMFER PROCESS SHALL NOT DAMAGE THE GOLD EDGE LANDS.
6. EDGECARD CHAMFER NOT TO GO THRU GOLD LANDS.
7. 0.03mm MAX PLATING OVERHANG ON ALL GOLD LAND EDGES.
8. MOLEX RECOMMENDS NO TIE-BARS ON THE LEADING EDGE OF THE GOLD LAND. IF TIE-BARS ARE USED, THEY SHALL BE PLACED ON ONE SIDE OF THE GOLD LAND. APPLIES TO ALL GOLD LANDS.





Partial1 OF Z-Z
SCALE 30:1





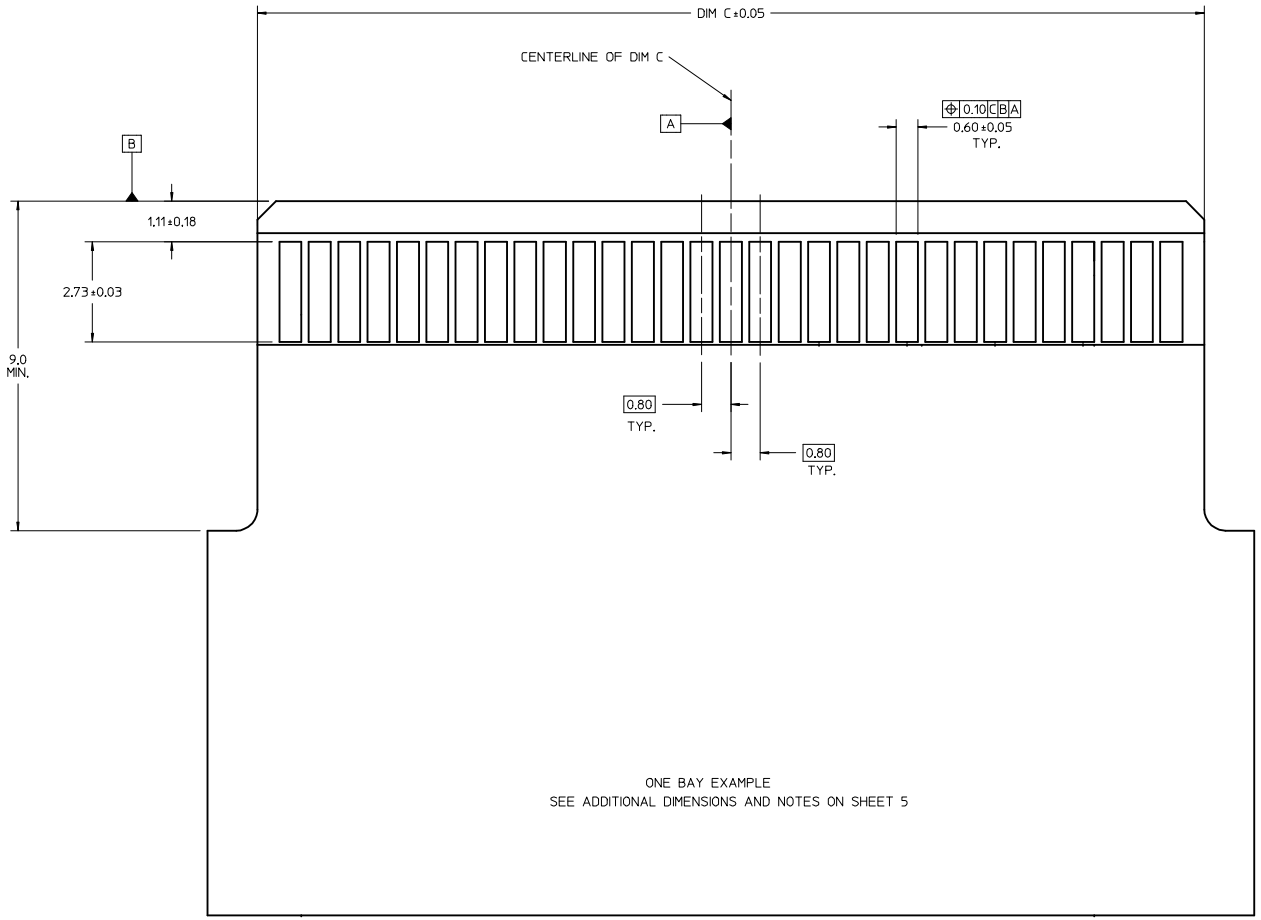
DETAIL 2
SCALE 15:1

SEE SHEET 1	EC NO: UCP2015-0939 2015/01/29
	DRWN:MWOLFE 2015/01/29
	CHK'D:MPOFF 2015/02/02
	APPR:SMILLER
REV	C

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
=0	4 PLACES	± ---	± ---
=0	3 PLACES	± ---	± ---
=0	2 PLACES	± 0.13	± ---
	1 PLACE	± 0.25	± ---
	0 PLACE	± ---	± ---
	ANGULAR ±1/2°		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE: MM ONLY	SCALE: 4:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: MWOLFE, DATE: 2013/11/13	TITLE: .093 COPLANAR SALES DRAWING		
CHECKED BY: MPOFF, DATE: 2014/05/27			
APPROVED BY: SMILLER, DATE: 2014/08/26	molex		
MATERIAL NO.: SEE TABLE	DOCUMENT NO.: SD-170082-001		SHEET NO.: 5 OF 6
SIZE: D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

tb_frame_D_P_AM_T
Rev. G 2012/01/11



ONE BAY EXAMPLE
SEE ADDITIONAL DIMENSIONS AND NOTES ON SHEET 5

SEE SHEET 1
EC NO: UCP2015-0939
DRWN:MWOLFE 2015/01/29
CHKD:MPOFF 2015/01/29
APPR:SMILLER 2015/02/02
DESCRIPTION
REV C

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 15:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: MWOLFE DATE: 2013/11/13
CHECKED BY: MPOFF DATE: 2014/05/27
APPROVED BY: SMILLER DATE: 2014/08/26
MATERIAL NO.: SEE TABLE

TITLE: .093 COPLANAR SALES DRAWING

molex

DOCUMENT NO.: SD-170082-001
SHEET NO.: 6 OF 6
SIZE: D