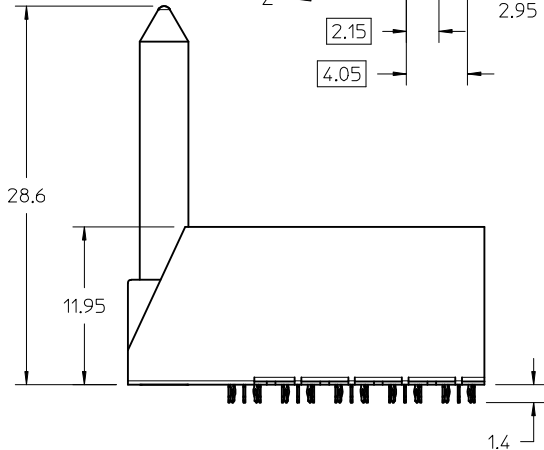




1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP)
GLASS-FILLED, UL94V-0

TERMINALS - HIGH PERFORMANCE COPPER ALLOY

2. FINISH: 30μ MIN GOLD IN CONTACT AREA.
SELECTIVE MATTE TIN OR (LEAD-FREE) ON PCB TAILS.
NICKEL OVERALL.

3. REFER TO MOLEX PRODUCT SPECIFICATION PS-76060-999
FOR PERFORMANCE SPECIFICATIONS AND ADDITIONAL PCB INFORMATION.

4. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF
COSMETIC SPEC PS-45499-002.

5. PRODUCT IS PACKAGED PER PK-70873-765.

6. SEE SHEETS 2 THRU 4 FOR PART NUMBERS AND ORTHOGONAL PIN MAPPING.

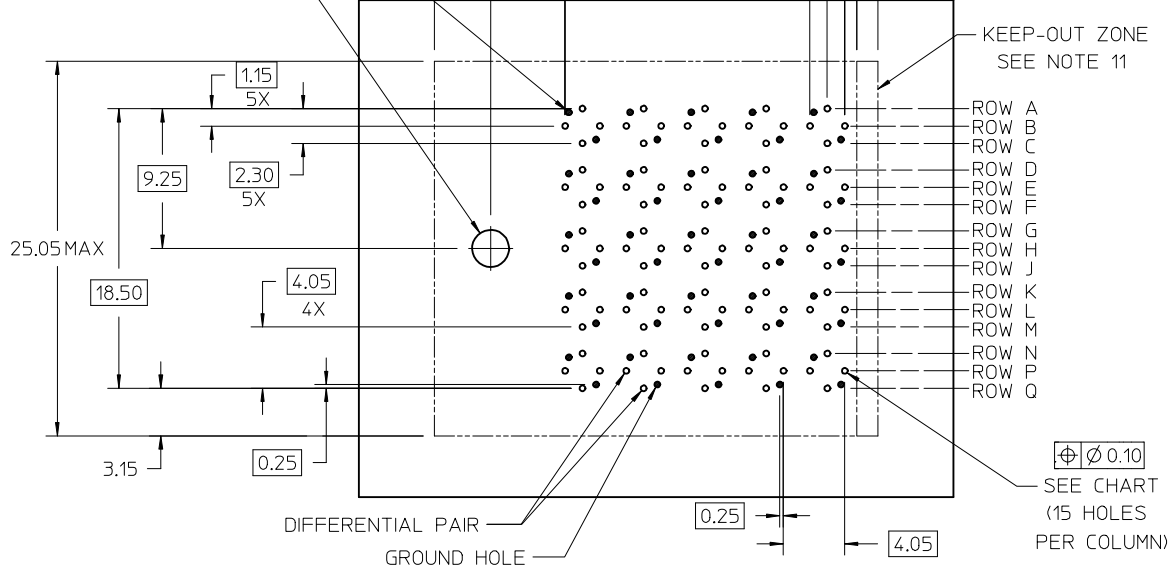
7. REFER TO MOLEX SALES DRAWING SD-76990-002 FOR THE MATING RECEPTACLES.

8. REFER TO MOLEX ROUTING GUIDE AS-76850-990 FOR ADDITIONAL PCB LAYOUT
AND ROUTING RECOMMENDATIONS.

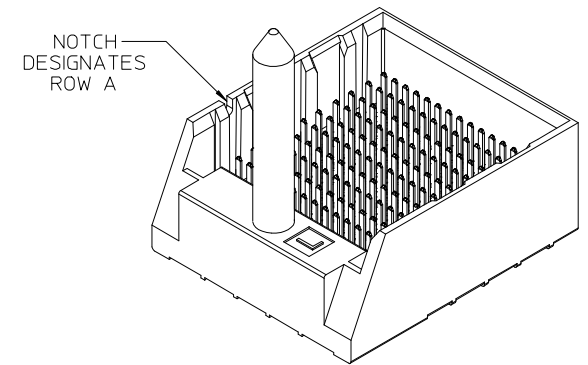
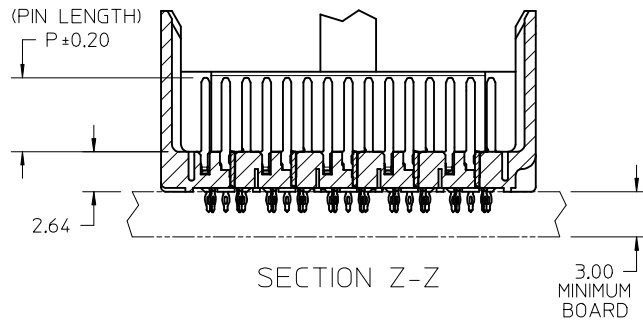
9. THE KEEP-OUT ZONE FOR THE PART LENGTH INCLUDES AN ADDITIONAL 1.0mm
TO ACCOMMODATE FOR SPACE REQUIRED BY THE DAUGHTERCARD ASSEMBLY.

10. CONNECTORS ARE SUPPLIED WITH A 2-56 UNC-2A CUSTOM SCREW.

11. THESE DIMENSIONS REPRESENT THE AREA NEEDED TO ACCOMMODATE CONNECTOR
INSERTION AND REPAIR ON THE PC BOARD. THIS DOES NOT REPRESENT
THE ACTUAL PERIMETER OF THE CONNECTOR."

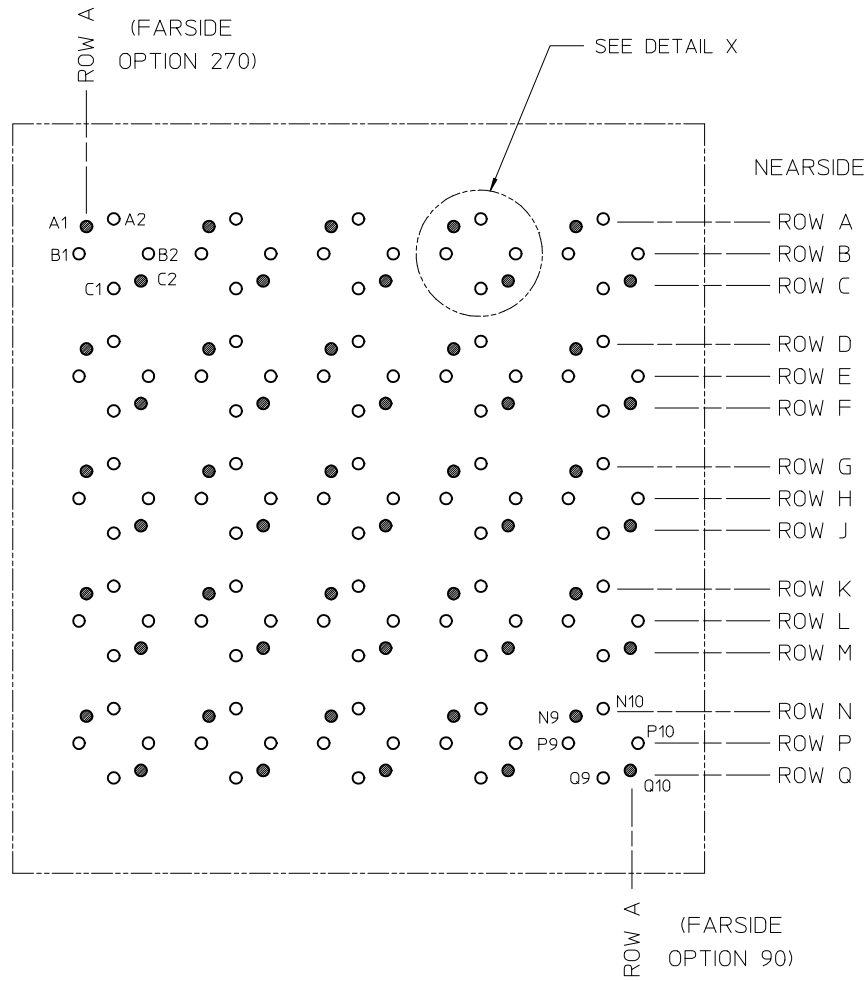


BACKPLANE HOLE PATTERN
(CONNECTOR SIDE)



ENDWALL VERSION SHOWN

INITIAL RELEASE EC NO: UCP2014-2268 DRW:ARI ZVI 01 CHKD:TELO APPR:TELO A	2013/03/05	2013/03/05	2013/11/22	2013/12/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	DESCRIPTION					4 PLACES ± --- ± ---	DRAWN BY DATE ARI ZVI 01 2013/03/05	TITLE IMPACT 5 PAIR HEADER ORTHOGONAL ASSEMBLY GUIDE LEFT SALES DRAWING			
						3 PLACES ± --- ± ---	CHECKED BY DATE JMENDOZA 2013/11/22				
						2 PLACES ± 0.13 ± ---	APPROVED BY DATE TELO 2013/12/04				
						1 PLACE ± 0.25 ± ---	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
						0 PLACE ± ±	SEE CHART	SD-171884-0002		1 OF 4	
					ANGULAR ±1/2°						
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
	REV						SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



MIDPLANE PCB LAYOUT
SCALE 8:1

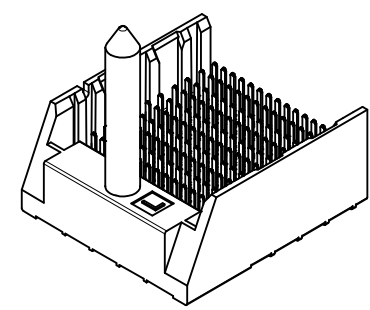
MATERIAL NUMBER	# OF COLUMNS	# OF DIFF PAIR	MODULE TYPE	DIM A	DIM B	DIM C
171884-*80*	8	40	NO ENDWALL	22.9	14.05	14.45
171884-*80*	8	40	WITH ENDWALL	24.3	14.05	14.45
171884-*10*	10	50	NO ENDWALL	27.0	18.10	18.50
171884-*10*	10	50	WITH ENDWALL	28.4	18.10	18.50
171884-*20*	12	60	NO ENDWALL	31.0	22.15	22.55
171884-*20*	12	60	WITH ENDWALL	32.4	22.15	22.55

171884-* * 0 *

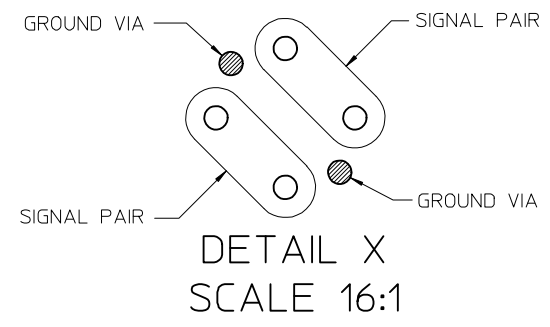
MODULE & TAIL PLATING TYPE
3 = GUIDE LEFT NO ENDWALL, TIN
7 = GUIDE LEFT ENDWALL, TIN

PIN LENGTH (P)
4 = 4.90 (0.46 PTH)
5 = 5.50 (0.46 PTH)
7 = 4.90 (0.39 PTH)
8 = 5.50 (0.39 PTH)

OF COLUMNS
8 = 8 COLUMN
1 = 10 COLUMN
2 = 12 COLUMN



OPEN END OPTION



SEE SHEET 1 EC NO: UCP2014-2268 DRWN: ARIZV101 CHKD: TELO APPR: TELO	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		▽=0 ▽=0 ▽=0		mm	INCH	DRAWN BY ARIZV101	DATE 2013/03/05	TITLE IMPACT 5 PAIR HEADER ORTHOGONAL ASSEMBLY GUIDE LEFT SALES DRAWING molex	DOCUMENT NO. SD-171884-0002	SHEET NO. 2 OF 4
			4 PLACES ± ---	± ---	CHECKED BY JMENDOZA	DATE 2013/11/22				
			3 PLACES ± ---	± ---	APPROVED BY TELO	DATE 2013/12/04				
			2 PLACES ± 0.13	± ---						
		1 PLACE ± 0.25	± ---							
		0 PLACE ±	±							
		ANGULAR ±1/2°		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART						
				SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

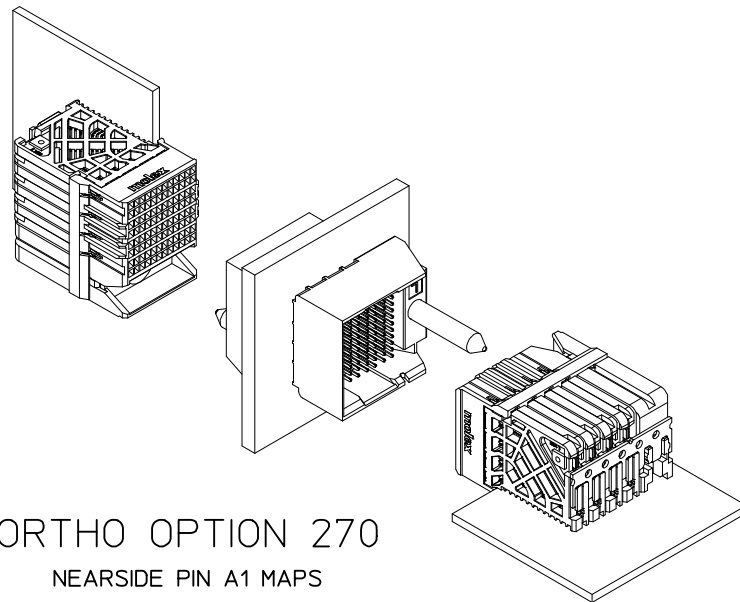
ORTHO PIN MAPPING

OPTION 270 (NEAR SIDE - FAR SIDE)

(A1-A1)	A2-B1	(A3-D1)	A4-E1	(A5-G1)	A6-H1	(A7-K1)	A8-L1	(A9-N1)	A10-P1
B1-A2	B2-C1	B3-D2	B4-F1	B5-G2	B6-J1	B7-K2	B8-M1	B9-N2	B10-Q1
C1-B2	(C2-C2)	C3-E2	(C4-F2)	C5-H2	(C6-J2)	C7-L2	(C8-M2)	C9-P2	(C10-Q2)
(D1-A3)	D2-B3	(D3-D3)	D4-E3	(D5-G3)	D6-H3	(D7-K3)	D8-L3	(D9-N3)	D10-P3
E1-A4	E2-C3	E3-D4	E4-F3	E5-G4	E6-J3	E7-K4	E8-M3	E9-N4	E10-Q3
F1-B4	(F2-C4)	F3-E4	(F4-F4)	F5-H4	(F6-J4)	F7-L4	(F8-M4)	F9-P4	(F10-Q4)
(G1-A5)	G2-B5	(G3-D5)	G4-E5	(G5-G5)	G6-H5	(G7-K5)	G8-L5	(G9-N5)	G10-P5
H1-A6	H2-C5	H3-D6	H4-F5	H5-G6	H6-J5	H7-K6	H8-M5	H9-N6	H10-Q5
J1-B6	(J2-C6)	J3-E6	(J4-F6)	J5-H6	(J6-J6)	J7-L6	(J8-M6)	J9-P6	(J10-Q6)
(K1-A7)	K2-B7	(K3-D7)	K4-E7	(K5-G7)	K6-H7	(K7-K7)	K8-L7	(K9-N7)	K10-P7
L1-A8	L2-C7	L3-D8	L4-F7	L5-G8	L6-J7	L7-K8	L8-M7	L9-N8	L10-Q7
M1-B8	(M2-C8)	M3-E8	(M4-F8)	M5-H8	(M6-J8)	M7-L8	(M8-M8)	M9-P8	(M10-Q8)
(N1-A9)	N2-B9	(N3-D9)	N4-E9	(N5-G9)	N6-H9	(N7-K9)	N8-L9	(N9-N9)	N10-P9
P1-A10	P2-C9	P3-D10	P4-F9	P5-G10	P6-J9	P7-K10	P8-M9	P9-N10	P10-Q9
Q1-B10	(Q2-C10)	Q3-E10	(Q4-F10)	Q5-H10	(Q6-J10)	Q7-L10	(Q8-M10)	Q9-P10	(Q10-Q10)

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.

PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERN ONLY.



ORTHO OPTION 270

NEAR SIDE PIN A1 MAPS
TO FAR SIDE PIN A1

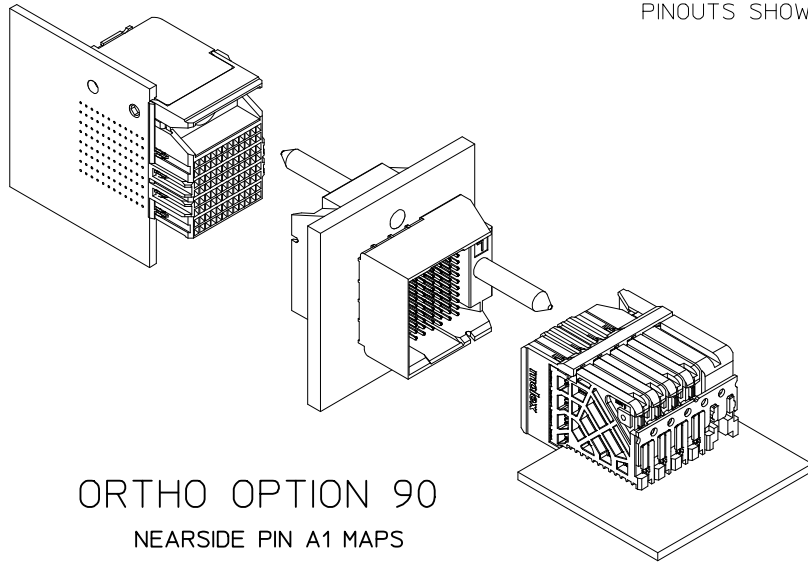
SEE SHEET 1 EC NO: UCP2014-2268 DRWN: ARIZV101 CHKD: TELO APPR: TELO	REV A	DESCRIPTION QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 8:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY ARIZV101	DATE 2013/03/05	TITLE IMPACT 5 PAIR HEADER ORTHOGONAL ASSEMBLY GUIDE LEFT SALES DRAWING molex SD-171884-0002					
			4 PLACES	± ---	± ---	CHECKED BY JMENDOZA	DATE 2013/11/22						
			3 PLACES	± ---	± ---	APPROVED BY TELO	DATE 2013/12/04						
			2 PLACES	± 0.13	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
			1 PLACE	± 0.25	± ---	SEE CHART		SD-171884-0002		3 OF 4			
			0 PLACE	±	±	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE							

ORTHO PIN MAPPING

OPTION 90 (NEAR SIDE - FAR SIDE)

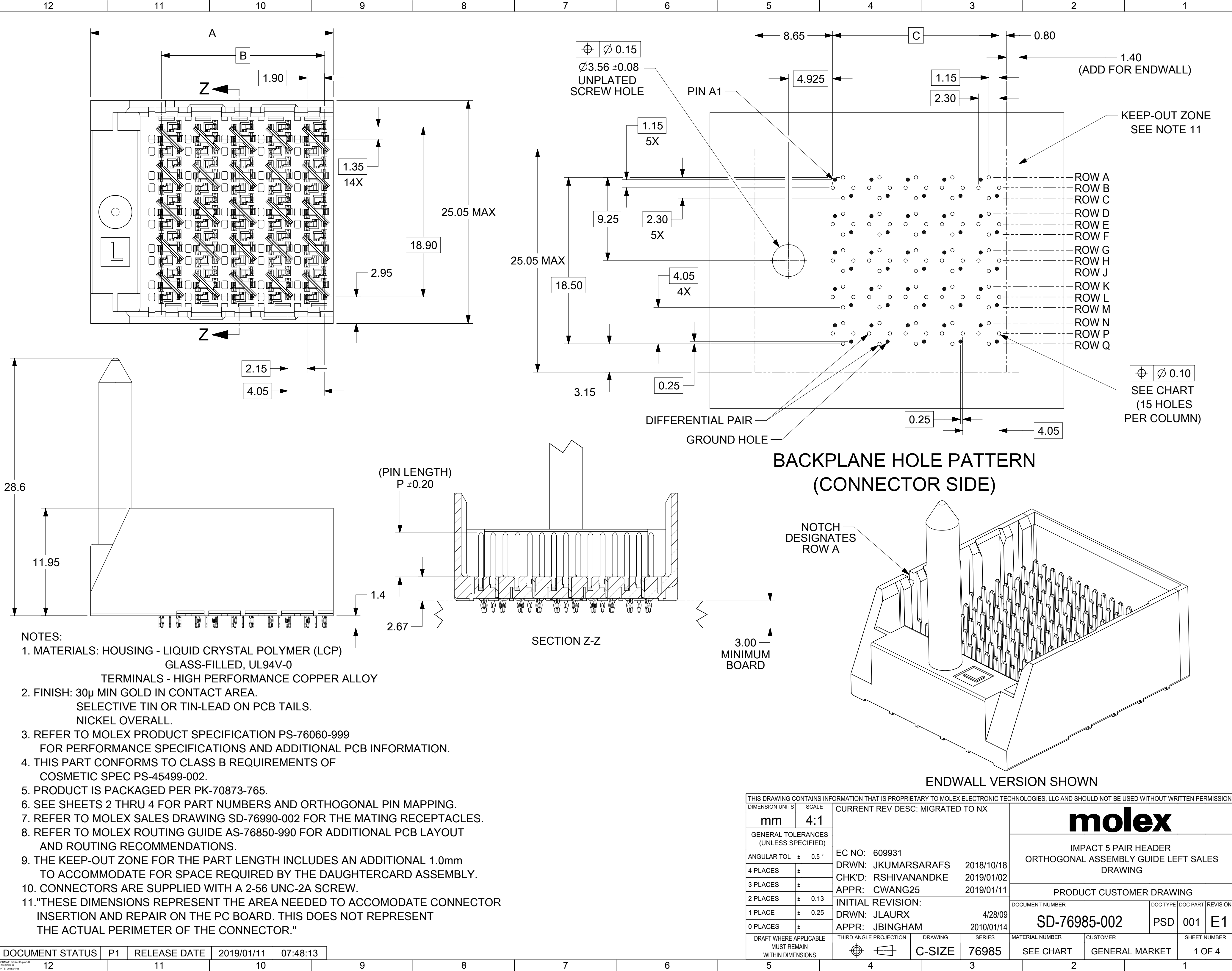
(A1-Q10)	A2-P10	(A3-M10)	A4-L10	(A5-J10)	A6-H10	(A7-F10)	A8-E10	(A9-C10)	A10-B10
B1-Q9	B2-N10	B3-M9	B4-K10	B5-J9	B6-G10	B7-F9	B8-D10	B9-C9	B10-A10
C1-P9	(C2-N9)	C3-L9	(C4-K9)	C5-H9	(C6-G9)	C7-E9	(C8-D9)	C9-B9	(C10-A9)
(D1-Q8)	D2-P8	(D3-M8)	D4-L8	(D5-J8)	D6-H8	(D7-F8)	D8-E8	(D9-C8)	D10-B8
E1-Q7	E2-N8	E3-M7	E4-K8	E5-J7	E6-G8	E7-F7	E8-D8	E9-C7	E10-A8
F1-P7	(F2-N7)	F3-L7	(F4-K7)	F5-H7	(F6-G7)	F7-E7	(F8-D7)	F9-B7	(F10-A7)
(G1-Q6)	G2-P6	(G3-M6)	G4-L6	(G5-J6)	G6-H6	(G7-F6)	G8-E6	(G9-C6)	G10-B6
H1-Q5	H2-N6	H3-M5	H4-K6	H5-J5	H6-G6	H7-F5	H8-D6	H9-C5	H10-A6
J1-P5	(J2-N5)	J3-L5	(J4-K5)	J5-H5	(J6-G5)	J7-E5	(J8-D5)	J9-B5	(J10-A5)
(K1-Q4)	K2-P4	(K3-M4)	K4-L4	(K5-J4)	K6-H4	(K7-F4)	K8-E4	(K9-C4)	K10-B4
L1-Q3	L2-N4	L3-M3	L4-K4	L5-J3	L6-G4	L7-F3	L8-D4	L9-C3	L10-A4
M1-P3	(M2-N3)	M3-L3	(M4-K3)	M5-H3	(M6-G3)	M7-E3	(M8-D3)	M9-B3	(M10-A3)
(N1-Q2)	N2-P2	(N3-M2)	N4-L2	(N5-J2)	N6-H2	(N7-F2)	N8-E2	(N9-C2)	N10-B2
P1-Q1	P2-N2	P3-M1	P4-K2	P5-J1	P6-G2	P7-F1	P8-D2	P9-C1	P10-A2
Q1-P1	(Q2-N1)	Q3-L1	(Q4-K1)	Q5-H1	(Q6-G1)	Q7-E1	(Q8-D1)	Q9-B1	(Q10-A1)

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.
PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERN ONLY.



ORTHO OPTION 90
NEAR SIDE PIN A1 MAPS
TO FAR SIDE PIN Q10
(FOR SQUARE PATTERN)

SEE SHEET 1 EC NO: UCP2014-2268 DRWN: ARIZV101 CHKD: TELO APPR: TELO	REV A	DESCRIPTION 2013/03/05 2013/11/22 2013/12/04	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE IMPACT 5 PAIR HEADER ORTHOGONAL ASSEMBLY GUIDE LEFT SALES DRAWING molex			
				4 PLACES	mm	INCH	DRAWN BY ARIZV101	DATE 2013/03/05							
					3 PLACES	± ---	± ---	CHECKED BY JMENDOZA					DATE 2013/11/22		
				2 PLACES	± 0.13	± ---	APPROVED BY TELO		DATE 2013/12/04	DOCUMENT NO. SD-171884-0002					
				1 PLACE	± 0.25	± ---									
				0 PLACE	±	±	MATERIAL NO.		SHEET NO. 4 OF 4						
				ANGULAR ±1/2°											
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							SEE CHART				
											SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

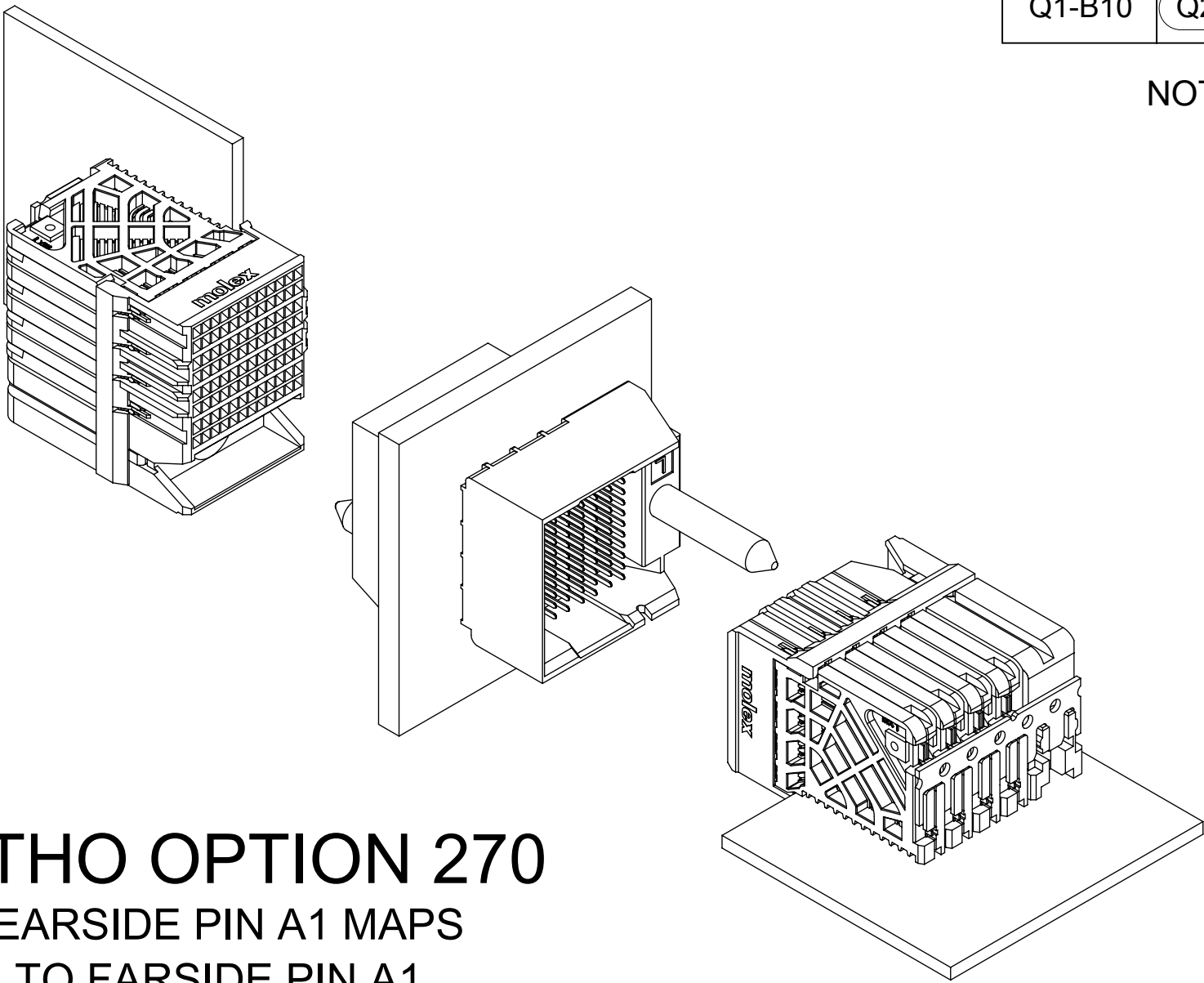


ORTHO PIN MAPPING

OPTION 270 (NEAR SIDE - FAR SIDE)

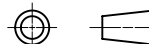
A1-A1	A2-B1	A3-D1	A4-E1	A5-G1	A6-H1	A7-K1	A8-L1	A9-N1	A10-P1
B1-A2	B2-C1	B3-D2	B4-F1	B5-G2	B6-J1	B7-K2	B8-M1	B9-N2	B10-Q1
C1-B2	C2-C2	C3-E2	C4-F2	C5-H2	C6-J2	C7-L2	C8-M2	C9-P2	C10-Q2
D1-A3	D2-B3	D3-D3	D4-E3	D5-G3	D6-H3	D7-K3	D8-L3	D9-N3	D10-P3
E1-A4	E2-C3	E3-D4	E4-F3	E5-G4	E6-J3	E7-K4	E8-M3	E9-N4	E10-Q3
F1-B4	F2-C4	F3-E4	F4-F4	F5-H4	F6-J4	F7-L4	F8-M4	F9-P4	F10-Q4
G1-A5	G2-B5	G3-D5	G4-E5	G5-G5	G6-H5	G7-K5	G8-L5	G9-N5	G10-P5
H1-A6	H2-C5	H3-D6	H4-F5	H5-G6	H6-J5	H7-K6	H8-M5	H9-N6	H10-Q5
J1-B6	J2-C6	J3-E6	J4-F6	J5-H6	J6-J6	J7-L6	J8-M6	J9-P6	J10-Q6
K1-A7	K2-B7	K3-D7	K4-E7	K5-G7	K6-H7	K7-K7	K8-L7	K9-N7	K10-P7
L1-A8	L2-C7	L3-D8	L4-F7	L5-G8	L6-J7	L7-K8	L8-M7	L9-N8	L10-Q7
M1-B8	M2-C8	M3-E8	M4-F8	M5-H8	M6-J8	M7-L8	M8-M8	M9-P8	M10-Q8
N1-A9	N2-B9	N3-D9	N4-E9	N5-G9	N6-H9	N7-K9	N8-L9	N9-N9	N10-P9
P1-A10	P2-C9	P3-D10	P4-F9	P5-G10	P6-J9	P7-K10	P8-M9	P9-N10	P10-Q9
Q1-B10	Q2-C10	Q3-E10	Q4-F10	Q5-H10	Q6-J10	Q7-L10	Q8-M10	Q9-P10	Q10-Q10

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.
PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERN ONLY.



ORTHO OPTION 270

NEAR SIDE PIN A1 MAPS
TO FAR SIDE PIN A1

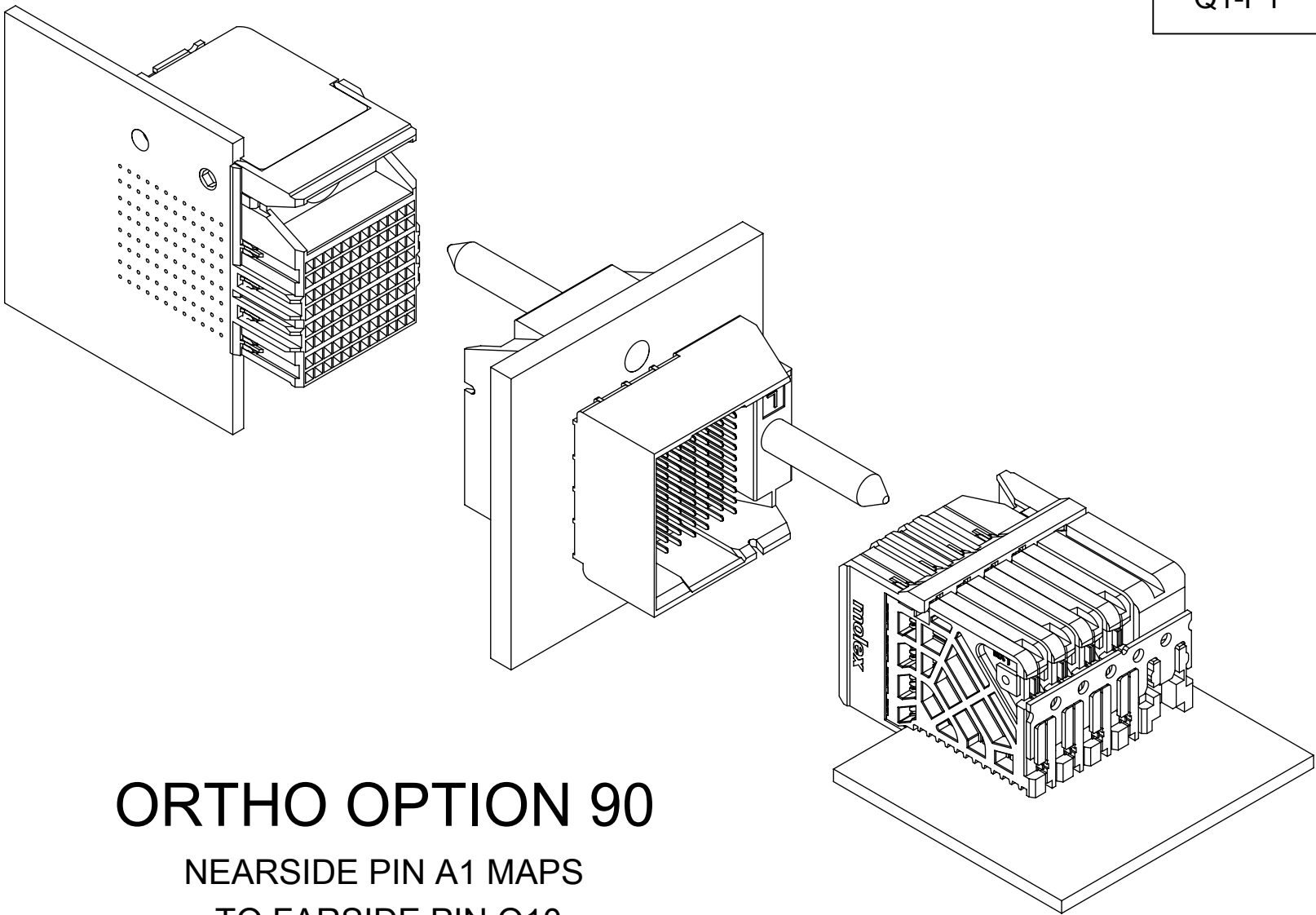
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: MIGRATED TO NX				molex							
mm		8:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 609931 DRWN: JKUMARSARAFS 2018/10/18 CHK'D: RSHIVANANDKE 2019/01/02 APPR: CWANG25 2019/01/11 INITIAL REVISION: DRWN: JLAURX 4/28/09 APPR: JBINGHAM 2010/01/14											
ANGULAR TOL ± 0.5 °															
4 PLACES		±													
3 PLACES		±													
2 PLACES		± 0.13													
1 PLACE		± 0.25													
0 PLACES		±													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													THIRD ANGLE PROJECTION		DRAWING
						C-SIZE		76985		SEE CHART		GENERAL MARKET		3 OF 4	

ORTHO PIN MAPPING

OPTION 90 (NEAR SIDE - FAR SIDE)

A1-Q10	A2-P10	A3-M10	A4-L10	A5-J10	A6-H10	A7-F10	A8-E10	A9-C10	A10-B10
B1-Q9	B2-N10	B3-M9	B4-K10	B5-J9	B6-G10	B7-F9	B8-D10	B9-C9	B10-A10
C1-P9	C2-N9	C3-L9	C4-K9	C5-H9	C6-G9	C7-E9	C8-D9	C9-B9	C10-A9
D1-Q8	D2-P8	D3-M8	D4-L8	D5-J8	D6-H8	D7-F8	D8-E8	D9-C8	D10-B8
E1-Q7	E2-N8	E3-M7	E4-K8	E5-J7	E6-G8	E7-F7	E8-D8	E9-C7	E10-A8
F1-P7	F2-N7	F3-L7	F4-K7	F5-H7	F6-G7	F7-E7	F8-D7	F9-B7	F10-A7
G1-Q6	G2-P6	G3-M6	G4-L6	G5-J6	G6-H6	G7-F6	G8-E6	G9-C6	G10-B6
H1-Q5	H2-N6	H3-M5	H4-K6	H5-J5	H6-G6	H7-F5	H8-D6	H9-C5	H10-A6
J1-P5	J2-N5	J3-L5	J4-K5	J5-H5	J6-G5	J7-E5	J8-D5	J9-B5	J10-A5
K1-Q4	K2-P4	K3-M4	K4-L4	K5-J4	K6-H4	K7-F4	K8-E4	K9-C4	K10-B4
L1-Q3	L2-N4	L3-M3	L4-K4	L5-J3	L6-G4	L7-F3	L8-D4	L9-C3	L10-A4
M1-P3	M2-N3	M3-L3	M4-K3	M5-H3	M6-G3	M7-E3	M8-D3	M9-B3	M10-A3
N1-Q2	N2-P2	N3-M2	N4-L2	N5-J2	N6-H2	N7-F2	N8-E2	N9-C2	N10-B2
P1-Q1	P2-N2	P3-M1	P4-K2	P5-J1	P6-G2	P7-F1	P8-D2	P9-C1	P10-A2
Q1-P1	Q2-N1	Q3-L1	Q4-K1	Q5-H1	Q6-G1	Q7-E1	Q8-D1	Q9-B1	Q10-A1

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.
PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERN ONLY.



ORTHO OPTION 90
NEAR SIDE PIN A1 MAPS
TO FAR SIDE PIN Q10
(FOR SQUARE PATTERN)

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

DIMENSION UNITS	SCALE	CURRENT REV DESC: MIGRATED TO NX		molex IMPACT 5 PAIR HEADER ORTHOGONAL ASSEMBLY GUIDE LEFT SALES DRAWING					
mm	4:1	EC NO: 609931 DRWN: JKUMARSARAFS 2018/10/18 CHK'D: RSHIVANANDKE 2019/01/02 APPR: CWANG25 2019/01/11 INITIAL REVISION: DRWN: JLAURX 4/28/09 APPR: JBINGHAM 2010/01/14		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
GENERAL TOLERANCES (UNLESS SPECIFIED)				SD-76985-002			PSD	001	E1
ANGULAR TOL	± 0.5°			PRODUCT CUSTOMER DRAWING					
4 PLACES	±			MATERIAL NUMBER			CUSTOMER		SHEET NUMBER
3 PLACES	±			SEE CHART			GENERAL MARKET		4 OF 4
2 PLACES	± 0.13	THIRD ANGLE PROJECTION		DRAWING	SERIES				
1 PLACE	± 0.25	C-SIZE		76985					
0 PLACES	±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							

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