

Excellent Integrated System Limited

Stocking Distributor

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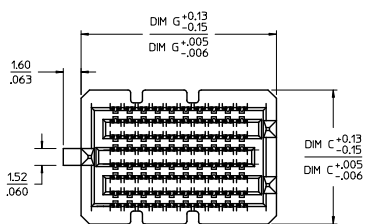
[Molex Connector Corporation](#)
[0459704305](#)

For any questions, you can email us directly:

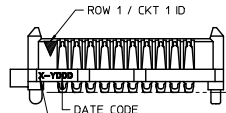
sales@integrated-circuit.com

NOTES:

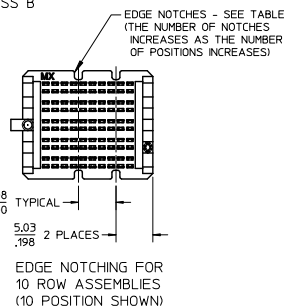
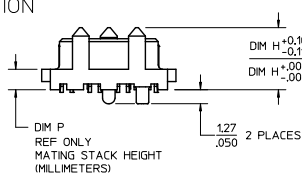
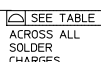
1. MATERIAL: HOUSING: GLASS FILLED LCP (LIQUID CRYSTAL POLYMER), UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: 95.5% TIN, 3.8% SILVER, 0.7% COPPER
2. FINISH: ALL DIM P HEIGHT OPTIONS - SELECT GOLD IN CONTACT AREA: 30 MICROINCH MINIMUM
DIM P HEIGHT OPTIONS 2.0 & 2.5: SELECT GOLD FLASH ON TAIL, 7 MICROINCH MINIMUM
DIM P HEIGHT OPTIONS 3.0 THRU 7.0: SELECT TIN ON TAIL, 50 MICROINCH MINIMUM
ALL OPTIONS - NICKEL UNDERPLATE OVERALL ON TAIL
3. PRODUCT SPECIFICATION: PS-45970-001
4. PACKAGING SPECIFICATION: PK-45971-002 (TAPE AND REEL)
5. MATES WITH SEARAY RECEPTACLE ASSEMBLY SERIES 45971
6. APPLICATION SPECIFICATION: AS-45970-001
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
8. PART STATUS: CONTACT MOLEX



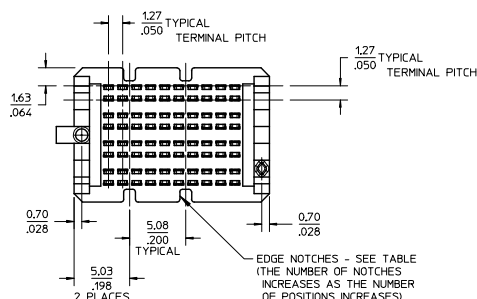
8 ROW
10 POSITION
SHOWN



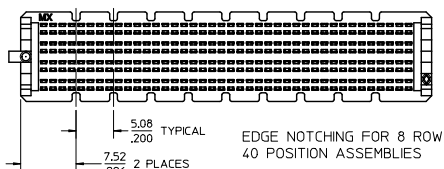
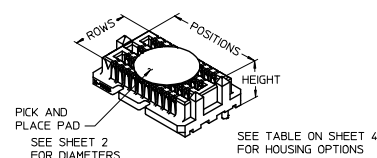
NOTE: THESE CODES MAY BE LOCATED
ON EITHER SIDE OF THE HOUSING



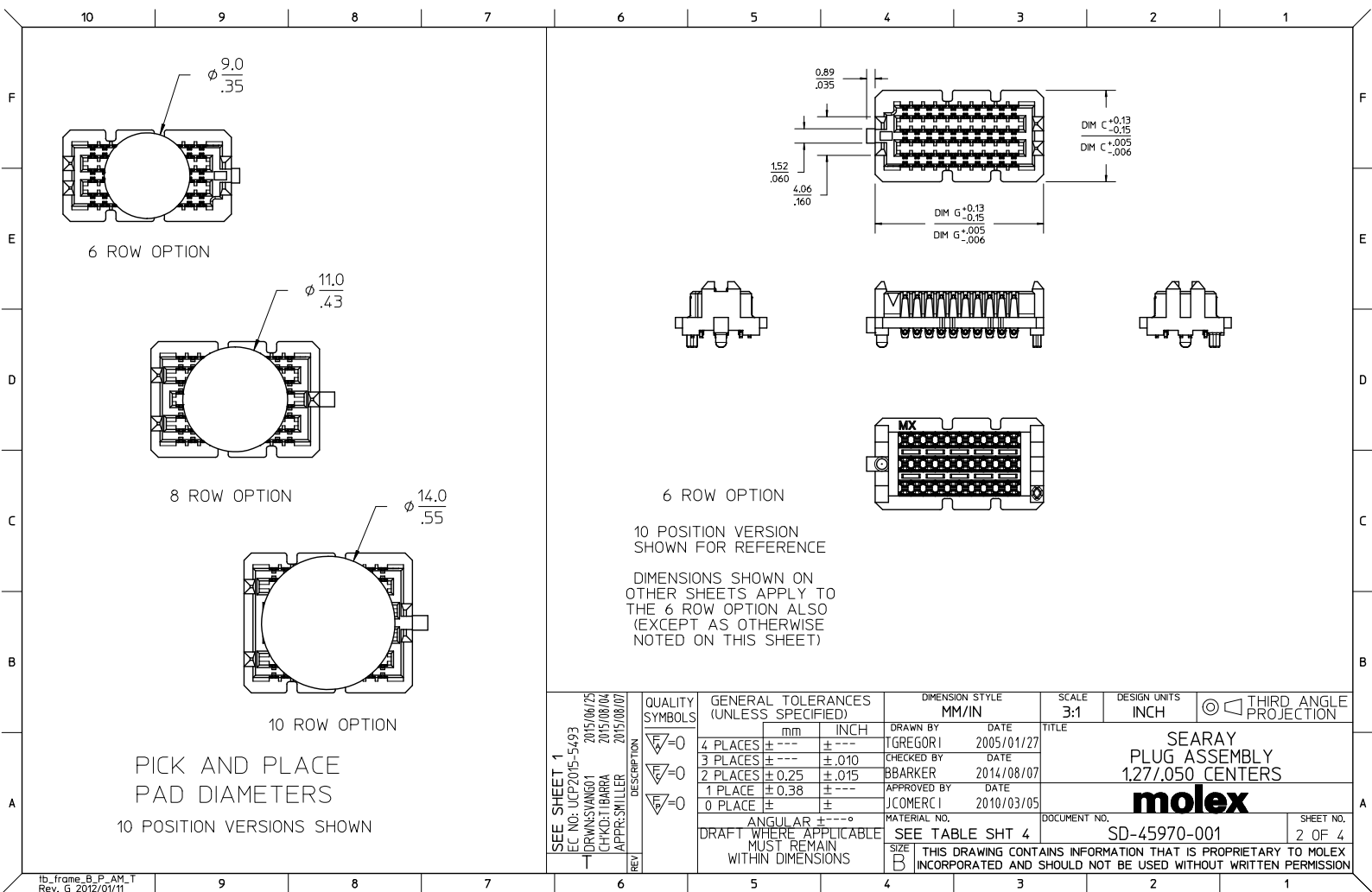
	TOTAL NUMBER OF EDGE NOTCHES		
POSITIONS	8 ROW	6 AND 10 ROW	
10	4	4	0.15/.006
15	6	6	
20	10	10	
25	12	12	
30	14	14	
35	16	16	
40	18	20	0.23/.009
45	22	22	
50	24	24	



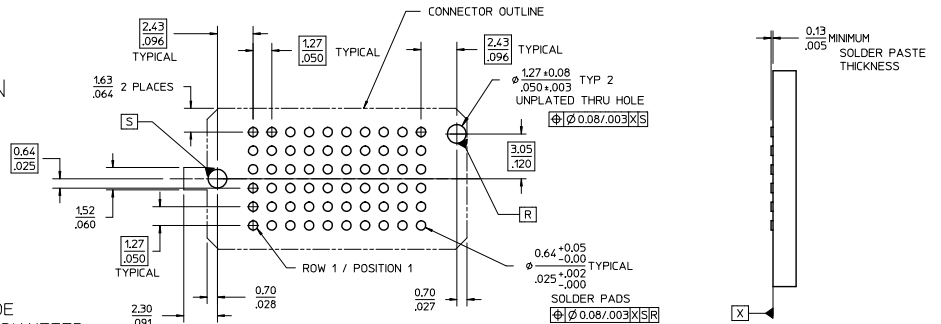
SEE OTHER EDGE NOTCHING VIEWS

EDGE NOTCHING FOR 8 ROW,
40 POSITION ASSEMBLIES

CLARIFY OVERALL LENGTH EC NO. UCP2015-5493 DRAWN: VANG01 2015/06/75 CHKD: I.BARRA 2015/08/04 APPR: SKULLER 2015/08/07	QUALITY SYMBOLS DESCRIPTION $\nabla A=0$ $\nabla E=0$ $\nabla F=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 3:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY TIGREGOR I	DATE 2005/01/27	TITLE SEARAY PLUG ASSEMBLY 1.27/.050 CENTERS molex			
		4 PLACES $\pm .---$	$\pm .---$	CHECKED BY BBARKER	DATE 2014/08/07				
		3 PLACES $\pm .---$	$\pm .010$	APPROVED BY JCOMERC I	DATE 2010/03/05				
		2 PLACES $\pm .025$	$\pm .015$	MATERIAL NO.		DOCUMENT NO.			
		1 PLACE $\pm .038$	$\pm .---$	SEE TABLE SHT 4		SD-45970-001		SHEET NO. 1 OF 4	
		0 PLACE $\pm$	$\pm$	SIZE B THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
		ANGULAR $\pm .---$							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							



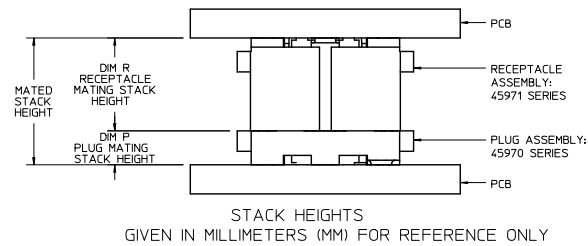
6 ROW
10 POSITION
SHOWN



RECOMMENDED PCB LAYOUT: COMPONENT SIDE
SOLDER SCREEN APERTURE SIZE: .890/.035 DIAMETER
PCB THICKNESS: NA

		DIM R RECEPTACLE STACK HEIGHT					
		MM	5.0	6.0	6.5	7.5	8.0
DIM P PLUG STACK HEIGHT	2.0	7.0	8.0	8.5	9.5	10.0	10.0
	3.0	8.0	9.0	9.5	10.5	11.0	11.0
	3.5	8.5	9.5	10.0	11.0	11.5	11.5
	2.5	7.5	8.5	9.0	10.0	10.5	10.5
	4.5	9.5	10.5	11.0	12.0	12.5	12.5
	5.0	10.0	11.0	11.5	12.5	13.0	13.0
	7.0	12.0	13.0	13.5	14.5	15.0	15.0
	9.0	14.0	15.0	15.5	16.5	17.0	17.0

MATED STACK HEIGHTS
GIVEN IN MILLIMETERS (MM) FOR REFERENCE ONLY



SEE SHEET 1 EC NO: UCP2015-5493 DRAWS:VANG01 2015/04/25 CHKD:T.BARRA 2015/08/04 APPR:SNILLER 2015/08/07	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
	 =0	mm	INCH	DRAWN BY	DATE	TITLE		
	 =0	4 PLACES ± ---	± ---	TGREGORI	2005/01/27	SEARAY PLUG ASSEMBLY 1.27/.050 CENTERS		
	 =0	3 PLACES ± ---	± .010	CHECKED BY	DATE			
	 =0	2 PLACES ± 0.25	± .015	BBARKER	2014/08/07	molex		
		1 PLACE ± 0.38	± ---	APPROVED BY	DATE			
		0 PLACE ±	±	JCOMERC I	2010/03/05	DOCUMENT NO. SD-45970-001		
		ANGULAR ± ---°		MATERIAL NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE SHT 4		SHEET NO. 3 OF 4		
				SIZE B THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

10 9 8 7 6 5 4 3 2 1

ROWS: 6 DIMENSION C = 9.60/.378								
DIM P:	2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM	
DIM H:	5.61/.221	6.60/.260	7.11/.280	6.12/.241	8.10/.319	8.61/.339	10.61/.418	
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
10	17.69/0.698	45970-1165	45970-1265	45970-1365	45970-1465	45970-1565	45970-1665	45970-1765
20	30.39/1.198	45970-2165	45970-2265	45970-2365	45970-2465	45970-2565	45970-2665	45970-2765
30	43.09/1.698	45970-3165	45970-3265	45970-3365	45970-3465	45970-3565	45970-3665	45970-3765
40	55.79/2.198	45970-4165	45970-4265	45970-4365	45970-4465	45970-4565	45970-4665	45970-4765
50	68.49/2.698	45970-5165	45970-5265	45970-5365	45970-5465	45970-5565	45970-5665	45970-5765
15	24.04/0.948	45970-6165	45970-6265	45970-6365	45970-6465	45970-6565	45970-6665	45970-6765
25	36.74/1.448	45970-7165	45970-7265	45970-7365	45970-7465	45970-7565	45970-7665	45970-7765
35	49.44/1.948	45970-8165	45970-8265	45970-8365	45970-8465	45970-8565	45970-8665	45970-8765
45	62.14/2.448	45970-9165	45970-9265	45970-9365	45970-9465	45970-9565	45970-9665	45970-9765

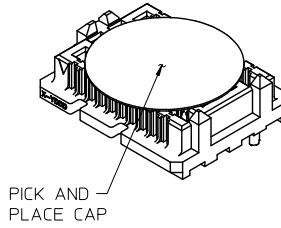
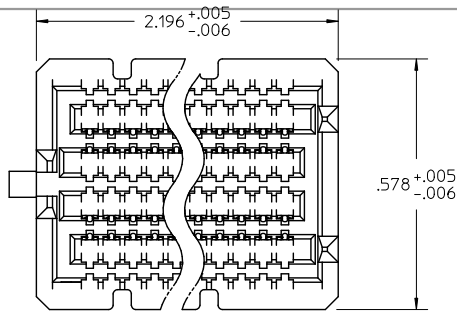
ROWS: 8 DIMENSION C = 12.14/.478								
DIM P:	2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM	
DIM H:	5.61/.221	6.60/.260	7.11/.280	6.12/.241	8.10/.319	8.61/.339	10.61/.418	
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
10	17.69/0.698	45970-1185	45970-1285	45970-1385	45970-1485	45970-1585	45970-1685	45970-1785
20	30.39/1.198	45970-2185	45970-2285	45970-2385	45970-2485	45970-2585	45970-2685	45970-2785
30	43.09/1.698	45970-3185	45970-3285	45970-3385	45970-3485	45970-3585	45970-3685	45970-3785
40	55.79/2.198	45970-4185	45970-4285	45970-4385	45970-4485	45970-4585	45970-4685	45970-4785
50	68.49/2.698	45970-5185	45970-5285	45970-5385	45970-5485	45970-5585	45970-5685	45970-5785
15	24.04/0.948	45970-6185	45970-6285	45970-6385	45970-6485	45970-6585	45970-6685	45970-6785
25	36.74/1.448	45970-7185	45970-7285	45970-7385	45970-7485	45970-7585	45970-7685	45970-7785
35	49.44/1.948	45970-8185	45970-8285	45970-8385	45970-8485	45970-8585	45970-8685	45970-8785
45	62.14/2.448	45970-9185	45970-9285	45970-9385	45970-9485	45970-9585	45970-9685	45970-9785

ROWS: 10 DIMENSION C = 14.68/.578								
DIM P:	2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM	9.0 MM
DIM H:	5.61/.221	6.60/.260	7.11/.280	6.12/.241	8.10/.319	8.61/.339	10.61/.418	12.62/.497
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
10	17.69/0.698	45970-1115	45970-1215	45970-1315	45970-1415	45970-1515	45970-1615	45970-1715
20	30.39/1.198	45970-2115	45970-2215	45970-2315	45970-2415	45970-2515	45970-2615	45970-2715
30	43.09/1.698	45970-3115	45970-3215	45970-3315	45970-3415	45970-3515	45970-3615	45970-3715
40	55.79/2.198	45970-4115	45970-4215	45970-4315	45970-4415	45970-4515	45970-4615	45970-4715
50	68.49/2.698	45970-5115	45970-5215	45970-5315	45970-5415	45970-5515	45970-5615	45970-5715
15	24.04/0.948	45970-6115	45970-6215	45970-6315	45970-6415	45970-6515	45970-6615	45970-6715
25	36.74/1.448	45970-7115	45970-7215	45970-7315	45970-7415	45970-7515	45970-7615	45970-7715
35	49.44/1.948	45970-8115	45970-8215	45970-8315	45970-8415	45970-8515	45970-8615	45970-8715
45	62.14/2.448	45970-9115	45970-9215	45970-9315	45970-9415	45970-9515	45970-9615	45970-9715

MATING STACK HEIGHTS (DIMENSION P)
GIVEN IN MILLIMETERS (MM) FOR REFERENCE ONLY

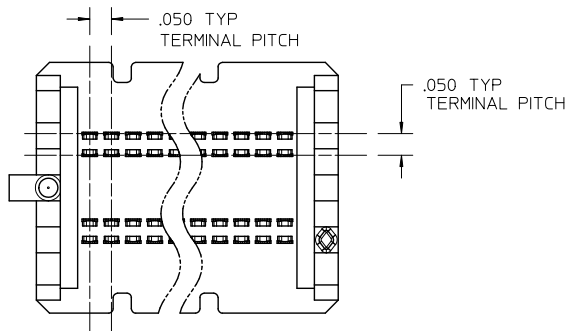
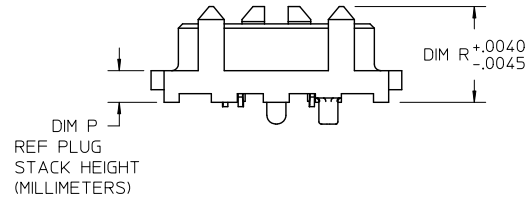
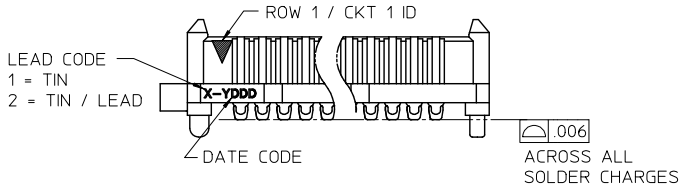
SEE SHEET 1 EC NO: UCP2015-5493 DRAWNS: VANG01 2015/04/25 CHKD: IBARRA 2015/08/04 APPR: SMILLER 2015/08/07 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
					MM/IN		4:1	INCH	
					DRAWN BY	DATE	TITLE		
					CHECKED BY		DATE		
					APPROVED BY		DATE		
					JCOMERC I		2010/03/05		
					MATERIAL NO.		DOCUMENT NO.		
					SEE TABLES		SD-45970-001		
					SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

9 8 7 6 5 4 3 2 1



NOTES:

1. MATERIAL: HOUSING: LCP, UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: SEE CHARTS
2. FINISH: SELECT GOLD IN CONTACT: 30 MI MIN
SELECT TIN IN TAIL: 100 MI MIN
BOTH OVER NICKEL
3. PRODUCT SPECIFICATION: PS-45970-001
4. PACKAGING SPECIFICATION: PK-45970-002
5. MATES WITH SEARAY RECEPTACLE ASSY 45971
6. APPLICATION SPECIFICATION: AS-45970-001
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B



TIN	MATERIAL NO:	45970-4105	45970-4305
	DIM P (REF)	2.0 MM	3.5 MM
	DIM R	.221	.280

TIN / LEAD	MATERIAL NO:	45970-4107	45970-4307
	DIM P (REF)	2.0 MM	3.5 MM
	DIM R	.221	.280

INITIAL RELEASE
EC NO: UCP2010-0292
DRWN: TREGORI 2009/08/04
CHKD: 2009/08/04
APPR: JCOMERC I 2009/08/05

DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .005	± .0002
3 PLACES	± .010	± .0004
2 PLACES	± .015	± .0006
1 PLACE	± .030	± .0012

ANGULAR ± .005°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
INCH ONLY

DRAWN BY	DATE
TGREGORI	2009/07/31
CHECKED BY	DATE
JCOMERC I	
APPROVED BY	DATE
JCOMERC I	2009/08/04

SEE CHART

SCALE
3:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

TITLE
SEARAY PLUG ASSEMBLY
.050 CENTERS
FOR VITA 57 SPEC



MOLEX INCORPORATED

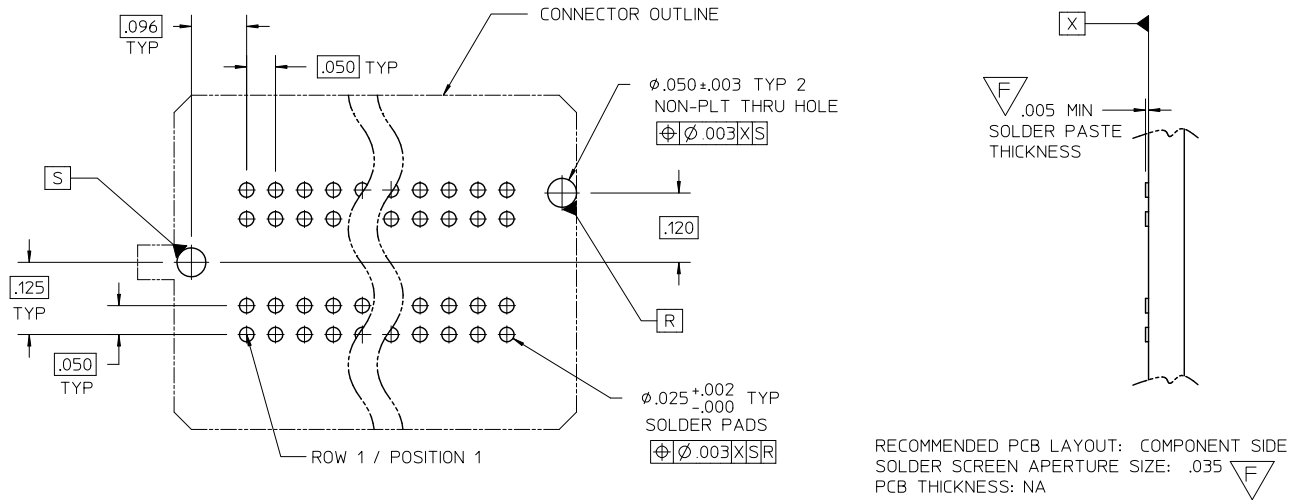
MATERIAL NO.

SD-45970-057

DOCUMENT NO.

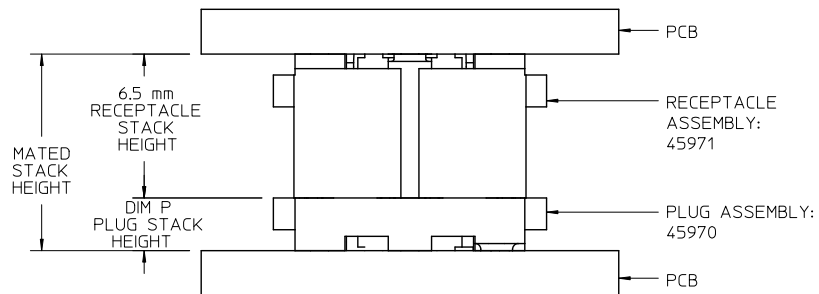
SHEET NO.

1 OF 2



		RECEPTACLE STACK HEIGHT				
DIM P PLUG STACK HEIGHT	MM	-	-	6.5	-	-
	2.0	-	-	8.5	-	-
	-	-	-	-	-	-
	3.5	-	-	10.0	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

MATED STACK HEIGHTS
(MILLIMETERS) REF



STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY

SEE SHEET 1 EC NO: UCP2010-0292 A DRWN: TREGORI CHKD: 2009/08/04 APPR: JCOMERCI 2009/08/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY TREGORI	DATE 2009/07/31	TITLE SEARAY PLUG ASSEMBLY .050 CENTERS FOR VITA 57 SPEC MOLEX INCORPORATED	DOCUMENT NO. SD-45970-057	SHEET NO. 2 OF 2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		4 PLACES	± ---	± ---	CHECKED BY JCOMERCI	DATE					
		3 PLACES	± ---	± .010	APPROVED BY JCOMERCI						DATE 2009/08/04
		2 PLACES	± ---	± .015							
		1 PLACE	± ---	± ---							
		ANGULAR ± ---°									
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A							

tb_frame_A_P_AM_T
Rev. E 2006/04/15

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