

6

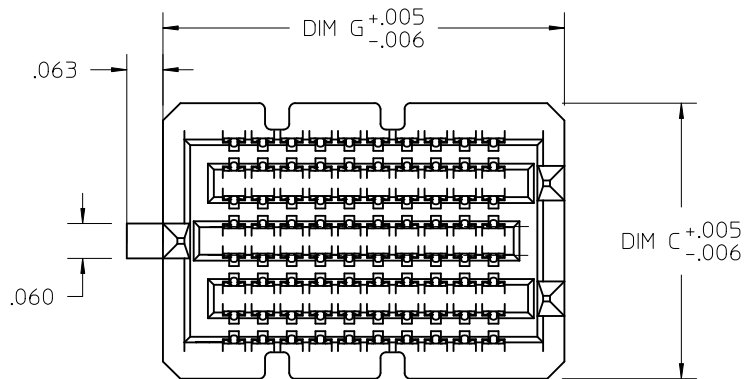
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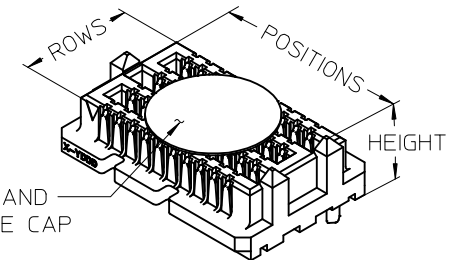
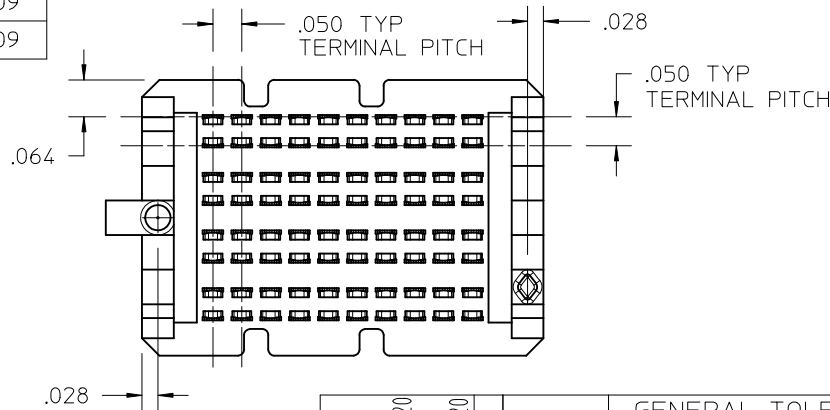
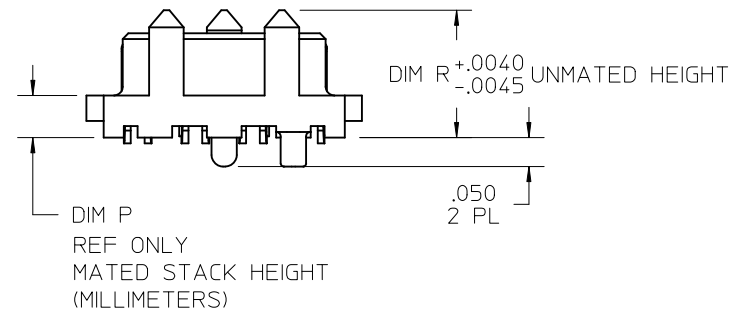
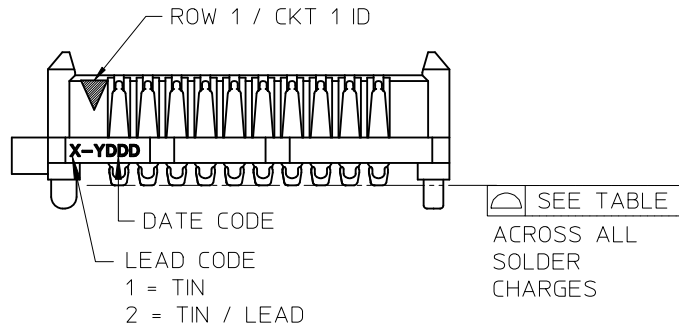
1



NOTES:

1. MATERIAL: HOUSING: LCP, UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: SEE CHARTS
2. FINISH: ALL DIM P HEIGHT OPTIONS - SELECT GOLD IN CONTACT AREA, 30 MI MIN
DIM P HEIGHT OPTIONS 2.0 & 2.5: SELECT GOLD FLASH IN TAIL, 7 MI MIN
DIM P HEIGHT OPTIONS 3.0 THRU 7.0: SELECT TIN IN TAIL, 50 MI MIN
ALL DIM P HEIGHT OPTIONS - OVER NICKEL
3. PRODUCT SPECIFICATION: PS-45970-001
4. PACKAGING SPECIFICATION: SEE CHART
5. MATES WITH SEARAY RECEPTACLE ASSY 45971
6. APPLICATION SPECIFICATION: AS-45970-001
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
8. PART STATUS: CONTACT MOLEX

POSITION	
19	.006
10	.006
20	.006
30	.006
40	.006
50	.006
15	.006
25	.006
35	.009
45	.009

HOUSING OPTIONS
SEE CHARTS

REV	DESCRIPTION
Q	REV NOTE 2 EC NO: UCP2012-3461 DRWN: TREGORI CH'KD: JCOMERC I APPR: JCOMERC I

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± ---	± .015
1 PLACE	± ---	± ---

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONSDIMENSION STYLE
INCH ONLY

DRAWN BY	DATE
TGREGORI	2005/01/27
CHECKED BY	DATE
JCOMERC I	
APPROVED BY	DATE
JCOMERC I	2010/03/05

MATERIAL NO.

SEE CHART

SIZE
ATHIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSIONSCALE
3:1DESIGN UNITS
INCHTHIRD ANGLE
PROJECTIONSEARAY
PLUG ASSEMBLY
.050 CENTERS

MOLEX INCORPORATED

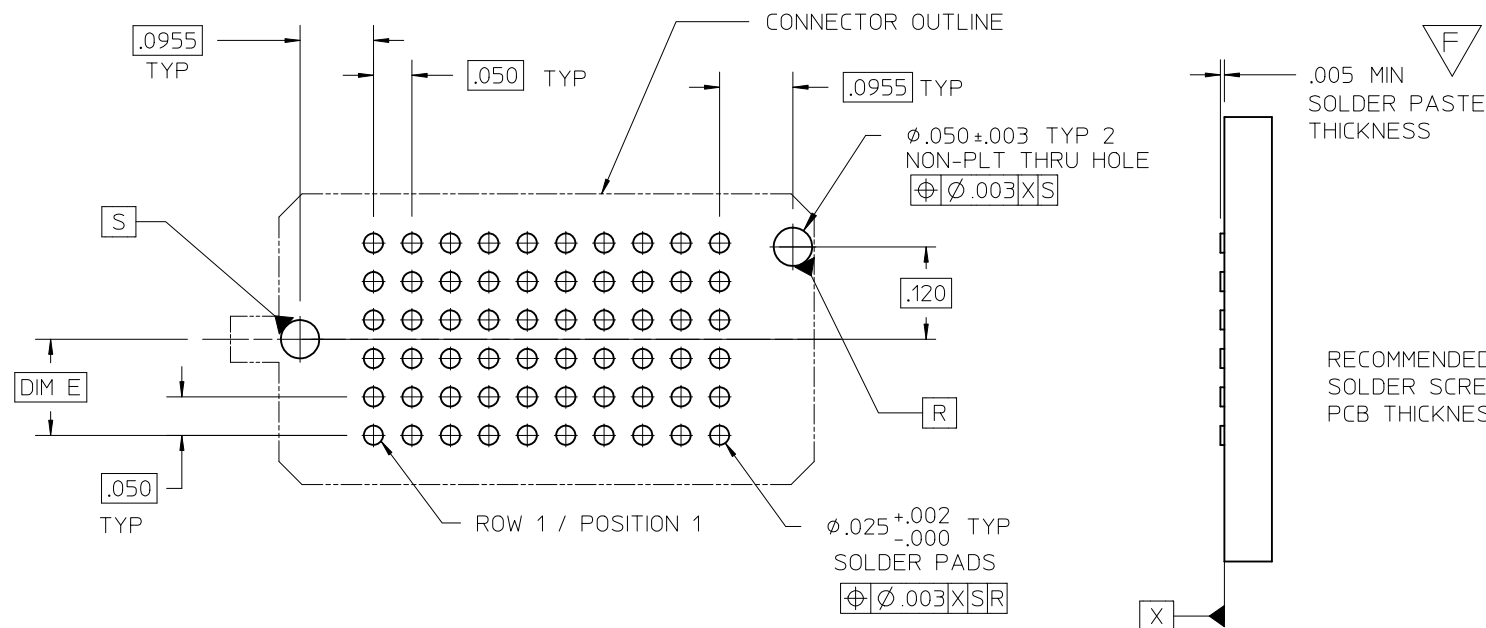
DOCUMENT NO.
SD-45970-001SHEET NO.
1 OF 10

D

C

D

C

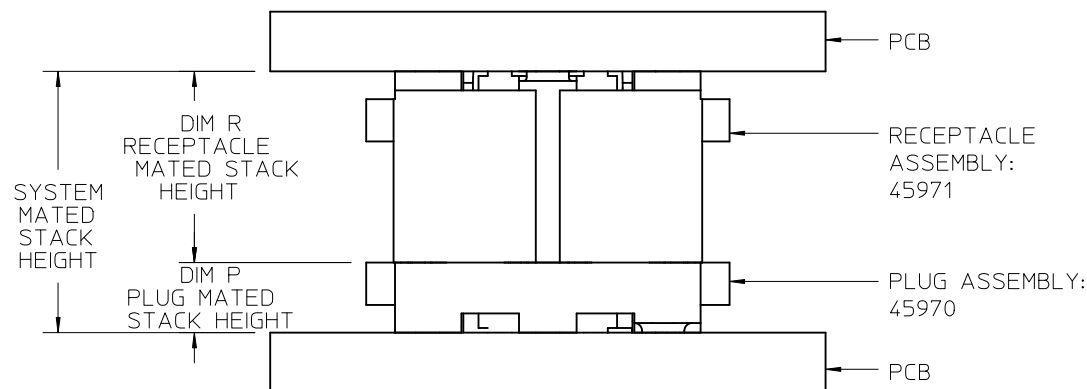


NO OF ROWS	DIM C	DIM E
6	.378	.125
8	.478	.175
10	.578	.225
12	.678	.275

RECOMMENDED PCB LAYOUT: COMPONENT SIDE
SOLDER SCREEN APERTURE SIZE: .035
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	
	3.0	8.0	9.0	9.5	10.5	11.0	
	3.5	8.5	9.5	10.0	11.0	11.5	
	2.5	7.5	8.5	9.0	10.0	10.5	
	4.5	9.5	10.5	11.0	12.0	12.5	
	5.0	10.0	11.0	11.5	12.5	13.0	
	7.0	12.0	13.0	13.5	14.5	15.0	

MATED STACK HEIGHTS
(MILLIMETERS) REF



STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY

SEE SHEET 1 EC NO: UCP2012-3461 DRWN: TGREGORI 2012/04/20 CHKD: JCOMERC I APPR: JCOMERC I 2012/04/20	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION				
			mm	INCH	DRAWN BY TGREGORI	DATE 2005/01/27	TITLE SEARAY PLUG ASSEMBLY .050 CENTERS						
		4 PLACES	± ---	± ---	CHECKED BY JCOMERC I								
		3 PLACES	± ---	± .010	APPROVED BY JCOMERC I		DATE 2010/03/05		 MOLEX INCORPORATED				
		2 PLACES	± ---	± .015									
		1 PLACE	± ---	± ---									
		ANGULAR ± ---°					DOCUMENT NO. SD-45970-001					SHEET NO. 2 OF 10	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													
REV		SIZE A			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

D		6		5		4		3		2		1		D					
		DIM P:		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM			5.0 MM		7.0 MM		
		DIM R:		.221		.260		.280		.241		3.19			.339		.418		
		POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			MATERIAL NO		MATERIAL NO		
		19	1.146	45970-0163		OBSOLETE		45970-0363		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		10	0.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		20	1.196	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		30	1.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		40	2.196	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		50	2.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		15	0.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		25	1.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		35	1.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
		45	2.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			OBSOLETE		OBSOLETE		
C		DIM P:		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM			
		DIM R:		.221		.260		.280		.241		.319		.339		.418			
		POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
		19	1.146	45970-0167		45970-0267		45970-0367		45970-0467		45970-0567		45970-0667		45970-0767			
		10	0.696	45970-1167		45970-1267		45970-1367		45970-1467		45970-1567		45970-1667		45970-1767			
		20	1.196	45970-2167		45970-2267		45970-2367		45970-2467		45970-2567		45970-2667		45970-2767			
		30	1.696	45970-3167		45970-3267		45970-3367		45970-3467		45970-3567		45970-3667		45970-3767			
		40	2.196	45970-4167		45970-4267		45970-4367		45970-4467		45970-4567		45970-4667		45970-4767			
		50	2.696	45970-5167		45970-5267		45970-5367		45970-5467		45970-5567		45970-5667		45970-5767			
		15	0.946	45970-6167		45970-6267		45970-6367		45970-6467		45970-6567		45970-6667		45970-6767			
		25	1.446	45970-7167		45970-7267		45970-7367		45970-7467		45970-7567		45970-7667		45970-7767			
		35	1.946	45970-8167		45970-8267		45970-8367		45970-8467		45970-8567		45970-8667		45970-8767			
		45	2.446	45970-9167		45970-9267		45970-9367		45970-9467		45970-9567		45970-9667		45970-9767			
		B		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 6 SOLDER CHARGE: TIN / LEAD, 63/Pb 37 PACKAGING: TRAYS AND TAPE AND REEL															
SEE SHEET 1 EC NO: UCP2012-3461 DRWN: TGREGORI 2012/04/20 CHKD: JCOMERCI APPR: JCOMERCI 2012/04/20 REV				DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 4:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION				
						mm		INCH		DRAWN BY TGREGORI		DATE 2005/01/27		TITLE SEARAY PLUG ASSEMBLY .050 CENTERS MOLEX INCORPORATED					
						4 PLACES ± ---		± ---		CHECKED BY JCOMERCI		DATE							
						3 PLACES ± ---		± .010		APPROVED BY JCOMERCI		DATE 2010/03/05							
						2 PLACES ± ---		± .015		DOCUMENT NO. SD-45970-001		SHEET NO. 4 OF 10							
						1 PLACE ± ---		± ---		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
						ANGULAR ± ---°													

D	6		5		4		3		2		1					
	DIM P:		2.0 MM		3.0 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM			
	DIM R:		.221		.260		.241		.319		.339		.418			
	POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
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	10	0.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	20	1.196	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	30	1.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	40	2.196	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	50	2.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	15	0.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	25	1.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	35	1.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
45	2.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
C	DIM P:		2.0 MM		3.0 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM			
	DIM R:		.221		.260		.241		.319		.339		.418			
	POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
	19	1.146	45970-0185		45970-0285		45970-0385		45970-0485		45970-0585		45970-0685		45970-0785	
	10	0.696	45970-1185		45970-1285		45970-1385		45970-1485		45970-1585		45970-1685		45970-1785	
	20	1.196	45970-2185		45970-2285		45970-2385		45970-2485		45970-2585		45970-2685		45970-2785	
	30	1.696	45970-3185		45970-3285		45970-3385		45970-3485		45970-3585		45970-3685		45970-3785	
	40	2.196	45970-4185		45970-4285		45970-4385		45970-4485		45970-4585		45970-4685		45970-4785	
	50	2.696	45970-5185		45970-5285		45970-5385		45970-5485		45970-5585		45970-5685		45970-5785	
	15	0.946	45970-6185		45970-6285		45970-6385		45970-6485		45970-6585		45970-6685		45970-6785	
	25	1.446	45970-7185		45970-7285		45970-7385		45970-7485		45970-7585		45970-7685		45970-7785	
	35	1.946	45970-8185		45970-8285		45970-8385		45970-8485		45970-8585		45970-8685		45970-8785	
	45	2.446	45970-9185		45970-9285		45970-9385		45970-9485		45970-9585		45970-9685		45970-9785	
B	NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 8 SOLDER CHARGE: TIN, 95.5/ Ag 3.8/ Cu 0.7 PACKAGING: TRAYS AND TAPE AND REEL															
	SEE SHEET 1 EC NO: UCP2012-3461 DRWN: TGREGORI 2012/04/20 CHKD: APPR: JCOMERCI 2012/04/20	REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION					
				mm		INCH	DRAWN BY TGREGORI		DATE 2005/01/27	SEARAY PLUG ASSEMBLY .050 CENTERS						
				4 PLACES ± ---		± ---	CHECKED BY JCOMERCI		DATE							
				3 PLACES ± ---		± .010	APPROVED BY JCOMERCI		DATE 2010/03/05							
				2 PLACES ± ---		± .015	MOLEX INCORPORATED									
	1 PLACE ± ---		± ---	DOCUMENT NO. SD-45970-001		SHEET NO. 5 OF 10										
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3		2		1					

6		5		4		3		2		1										
D	TRAY PACK PK-45971-001		DIM P:		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM			
			DIM R:		.221		.260		.280		.241		.319		.339		.418			
	POSITION		DIM G		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
	19		1.146		45970-0183		OBSOLETE		45970-0383		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	10		0.696		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	20		1.196		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	30		1.696		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	40		2.196		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	50		2.696		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	15		0.446		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	25		0.946		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	35		1.446		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
	45		1.946		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE			
C	TAPE AND REEL PACK PK-45971-002		DIM P:		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM			
			DIM R:		.221		.260		.280		.241		.319		.339		.418			
	POSITION		DIM G		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
	19		1.146		45970-0187		45970-0287		45970-0387		45970-0487		45970-0587		45970-0687		45970-0787			
	10		0.696		45970-1187		45970-1287		45970-1387		45970-1487		45970-1587		45970-1687		45970-1787			
	20		1.196		45970-2187		45970-2287		45970-2387		45970-2487		45970-2587		45970-2687		45970-2787			
	30		1.696		45970-3187		45970-3287		45970-3387		45970-3487		45970-3587		45970-3687		45970-3787			
	40		2.196		45970-4187		45970-4287		45970-4387		45970-4487		45970-4587		45970-4687		45970-4787			
	50		2.696		45970-5187		45970-5287		45970-5387		45970-5487		45970-5587		45970-5687		45970-5787			
	15		0.946		45970-6187		45970-6287		45970-6387		45970-6487		45970-6587		45970-6687		45970-6787			
	25		1.446		45970-7187		45970-7287		45970-7387		45970-7487		45970-7587		45970-7687		45970-7787			
	35		1.946		45970-8187		45970-8287		45970-8387		45970-8487		45970-8587		45970-8687		45970-8787			
	45		2.446		45970-9187		45970-9287		45970-9387		45970-9487		45970-9587		45970-9687		45970-9787			
B			NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 8 SOLDER CHARGE: TIN / LEAD, 63/Pb 37 PACKAGING: TRAYS AND TAPE AND REEL																	
A			SEE SHEET 1 EC NO: UCP2012-3461 DRWN: TGREGORI 2012/04/20 CH'KD: APPR: JCOMERC I 2012/04/20		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 4:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION		SEARAY PLUG ASSEMBLY .050 CENTERS MOLEX INCORPORATED			
							DRAWN BY DATE TGREGORI 2005/01/27		CHECKED BY DATE JCOMERC I		APPROVED BY DATE JCOMERC I 2010/03/05		DOCUMENT NO. SD-45970-001		SHEET NO. 6 OF 10					
	Q		REV				4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± --- ± .015 1 PLACE ± --- ± --- ANGULAR ± ---°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
	tb_frame_A_P_AM_T Rev. E 2006/04/15		5				4		3		2		1							

6

5

4

3

2

1

D

C

B

A

TRAY PACK PK-45971-001

TAPE AND REEL PACK PK-45971-002

DIM P:		2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM		
DIM R:		.221	.260	.280	.241	.319	.339	.418		
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO		
19	1.146	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
10	0.696	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
20	1.196	OBSOLETE	OBSOLETE	45970-2311	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
30	1.696	OBSOLETE	45970-3211	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
40	2.196	OBSOLETE	OBSOLETE	45970-4311	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
50	2.696	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
15	0.946	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
25	1.446	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
35	1.946	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		
45	2.446	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE		

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 R:		.221	.260	.280	.241	.319	.339	.418	.497
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
19	1.146	45970-0115	45970-0215	45970-0315	45970-0415	45970-0515	45970-0615	45970-0715	45970-0915
10	0.696	45970-1115	45970-1215	45970-1315	45970-1415	45970-1515	45970-1615	45970-1715	45970-1915
20	1.196	45970-2115	45970-2215	45970-2315	45970-2415	45970-2515	45970-2615	45970-2715	45970-2915
30	1.696	45970-3115	45970-3215	45970-3315	45970-3415	45970-3515	45970-3615	45970-3715	45970-3915
40	2.196	45970-4115	45970-4215	45970-4315	45970-4415	45970-4515	45970-4615	45970-4715	45970-4915
50	2.696	45970-5115	45970-5215	45970-5315	45970-5415	45970-5515	45970-5615	45970-5715	45970-5915
15	0.946	45970-6115	45970-6215	45970-6315	45970-6415	45970-6515	45970-6615	45970-6715	45970-6915
25	1.446	45970-7115	45970-7215	45970-7315	45970-7415	45970-7515	45970-7615	45970-7715	45970-7915
35	1.946	45970-8115	45970-8215	45970-8315	45970-8415	45970-8515	45970-8615	45970-8715	45970-8915
45	2.446	45970-9115	45970-9215	45970-9315	45970-9415	45970-9515	45970-9615	45970-9715	45970-9915

NOTES:

1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS

ROWS: 10

SOLDER CHARGE: TIN, 95.5/ Ag 3.8/ Cu 0.7

PACKAGING: TRAYS AND TAPE AND REEL

SEE SHEET 1

EC NO: UCP2012-3461

DRWN: TGREGORI

CHKD: JCOMERCI

APPR: JCOMERCI

2012/04/20

2012/04/20

DESCRIPTION

REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ± .010

2 PLACES ± --- ± .015

1 PLACE ± --- ± ---

ANGULAR ± ---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

INCH ONLY

DRAWN BY

DATE

TGREGORI 2005/01/27

CHECKED BY

DATE

JCOMERCI

APPROVED BY

DATE

JCOMERCI 2010/03/05

SCALE

4:1

DESIGN UNITS

INCH

THIRD ANGLE PROJECTION

SEARAY

PLUG ASSEMBLY

.050 CENTERS

MOLEX

MOLEX INCORPORATED

DOCUMENT NO.

SD-45970-001

SHEET NO.

7 OF 10

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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Rev. E 2006/04/15

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		6		5		4		3		2		1									
D	TRAY PACK PK-45971-001	DIM P:		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM					
		DIM R:		.221		.260		.280		.241		.319		.339		.418					
		POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO					
		19	1.146	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		10	0.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		20	1.196	OBSOLETE		OBSOLETE		45970-2313		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		30	1.696	OBSOLETE		45970-3213		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		40	2.196	OBSOLETE		OBSOLETE		45970-4313		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		50	2.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		15	0.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		25	1.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
		35	1.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE					
45	2.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE							
C	TAPE AND REEL PACK PK-45971-002	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 R:		.221		.260		.280		.241		.319		.339		.418		.497			
		POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
		19	1.146	45970-0117		45970-0217		45970-0317		45970-0417		45970-0517		45970-0617		45970-0717		45970-0917			
		10	0.696	45970-1117		45970-1217		45970-1317		45970-1417		45970-1517		45970-1617		45970-1717		45970-1917			
		20	1.196	45970-2117		45970-2217		45970-2317		45970-2417		45970-2517		45970-2617		45970-2717		45970-2917			
		30	1.696	45970-3117		45970-3217		45970-3317		45970-3417		45970-3517		45970-3617		45970-3717		45970-3917			
		40	2.196	45970-4117		45970-4217		45970-4317		45970-4417		45970-4517		45970-4617		45970-4717		45970-4917			
		50	2.696	45970-5117		45970-5217		45970-5317		45970-5417		45970-5517		45970-5617		45970-5717		45970-5917			
		15	0.946	45970-6117		45970-6217		45970-6317		45970-6417		45970-6517		45970-6617		45970-6717		45970-6917			
		25	1.446	45970-7117		45970-7217		45970-7317		45970-7417		45970-7517		45970-7617		45970-7717		45970-7917			
		35	1.946	45970-8117		45970-8217		45970-8317		45970-8417		45970-8517		45970-8617		45970-8717		45970-8917			
45	2.446	45970-9117		45970-9217		45970-9317		45970-9417		45970-9517		45970-9617		45970-9717		45970-9917					
A		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 10 SOLDER CHARGE: TIN / LEAD, 63/Pb 37 PACKAGING: TRAYS AND TAPE AND REEL																			
		SEE SHEET 1 EC NO: UCP2012-3461 DRWN: TGREGOR I 2012/04/20 CHKD: JCOMERC I APPR: JCOMERC I 2012/04/20	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION									
						mm	INCH	DRAWN BY TGREGOR I		DATE 2005/01/27		TITLE SEARAY PLUG ASSEMBLY .050 CENTERS									
				4 PLACES		± ---	± ---	CHECKED BY JCOMERC I		DATE											
				3 PLACES		± ---	± .010														
				2 PLACES		± ---	± .015	APPROVED BY JCOMERC I		DATE 2010/03/05		MOLEX INCORPORATED									
		1 PLACE		± ---	± ---																
		ANGULAR		± ---°																	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						DOCUMENT NO. SD-45970-001					SHEET NO. 8 OF 10								
		SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
		Q		REV																	
		tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3		2		1									

D	TRAY PACK PK-45971-001	6		5		4		3		2		1								
		DIM P:		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM				
		DIM R:		.221		.260		.280		.241		.319		.339		.418				
		POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO				
		19	1.146	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		10	0.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		20	1.196	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		30	1.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		40	2.196	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		50	2.696	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		15	0.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		25	1.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
		35	1.946	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE				
45	2.446	OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE		OBSOLETE						
C	TAPE AND REEL PACK PK-45971-002	DIM P:		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM				
		DIM R:		.221		.260		.280		.241		.319		.339		.418				
		POSITION	DIM G	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO				
		19	1.146	45970-0125		45970-0225		45970-0325		45970-0425		45970-0525		45970-0625		45970-0725				
		10	0.696	45970-1125		45970-1225		45970-1325		45970-1425		45970-1525		45970-1625		45970-1725				
		20	1.196	45970-2125		45970-2225		45970-2325		45970-2425		45970-2525		45970-2625		45970-2725				
		30	1.696	45970-3125		45970-3225		45970-3325		45970-3425		45970-3525		45970-3625		45970-3725				
		40	2.196	45970-4125		45970-4225		45970-4325		45970-4425		45970-4525		45970-4625		45970-4725				
		50	2.696	45970-5125		45970-5225		45970-5325		45970-5425		45970-5525		45970-5625		45970-5725				
		15	0.946	45970-6125		45970-6225		45970-6325		45970-6425		45970-6525		45970-6625		45970-6725				
		25	1.446	45970-7125		45970-7225		45970-7325		45970-7425		45970-7525		45970-7625		45970-7725				
		35	1.946	45970-8125		45970-8225		45970-8325		45970-8425		45970-8525		45970-8625		45970-8725				
		45	2.446	45970-9125		45970-9225		45970-9325		45970-9425		45970-9525		45970-9625		45970-9725				
B		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 12 SOLDER CHARGE: TIN, 95.5/ Ag 3.8/ Cu 0.7 PACKAGING: TRAYS AND TAPE AND REEL																		
		SEE SHEET 1 EC NO: UCP2012-3461 DRWN: TGREGORI 2012/04/20 CHKD: JCOMERCI APPR: JCOMERCI 2012/04/20	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION									
				4 PLACES		± ---	± ---	DRAWN BY TGREGORI		DATE 2005/01/27	TITLE SEARAY PLUG ASSEMBLY .050 CENTERS MOLEX INCORPORATED									
				3 PLACES		± ---	± .010	CHECKED BY JCOMERCI		DATE										
				2 PLACES		± ---	± .015	APPROVED BY		DATE										
				1 PLACE		± ---	± ---	JCOMERCI		2010/03/05										
				ANGULAR ± ---°							DOCUMENT NO. SD-45970-001									
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																
				SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
				Q		REV														
				tb_frame_A_P_AM_T Rev. E 2006/04/15																
				5		4		3		2		1								

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C

B

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TRAY PACK PK-45971-001

TAPE AND REEL PACK PK-45971-002

DIM P:		2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM
DIM R:		.221	.260	.280	.241	.319	.339	.418
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
19	1.146	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
10	0.696	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
20	1.196	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
30	1.696	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
40	2.196	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
50	2.696	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
15	0.946	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
25	1.446	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
35	1.946	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE
45	2.446	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE	OBSOLETE

DIM P:		2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM
DIM R:		.221	.260	.280	.241	.319	.339	.418
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
19	1.146	45970-0127	45970-0227	45970-0327	45970-0427	45970-0527	45970-0627	45970-0727
10	0.696	45970-1127	45970-1227	45970-1327	45970-1427	45970-1527	45970-1627	45970-1727
20	1.196	45970-2127	45970-2227	45970-2327	45970-2427	45970-2527	45970-2627	45970-2727
30	1.696	45970-3127	45970-3227	45970-3327	45970-3427	45970-3527	45970-3627	45970-3727
40	2.196	45970-4127	45970-4227	45970-4327	45970-4427	45970-4527	45970-4627	45970-4727
50	2.696	45970-5127	45970-5227	45970-5327	45970-5427	45970-5527	45970-5627	45970-5727
15	0.946	45970-6127	45970-6227	45970-6327	45970-6427	45970-6527	45970-6627	45970-6727
25	1.446	45970-7127	45970-7227	45970-7327	45970-7427	45970-7527	45970-7627	45970-7727
35	1.946	45970-8127	45970-8227	45970-8327	45970-8427	45970-8527	45970-8627	45970-8727
45	2.446	45970-9127	45970-9227	45970-9327	45970-9427	45970-9527	45970-9627	45970-9727

NOTES:
1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS
ROWS: 12
SOLDER CHARGE: TIN / LEAD, 63/Pb 37
PACKAGING: TRAYS AND TAPE AND REEL

SEE SHEET 1 EC NO: UCP2012-3461 DRWN: T GREGORI 2012/04/20 CHKD: APPR: JCOMERCI 2012/04/20	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
			mm	INCH	DRAWN BY T GREGORI		DATE 2005/01/27	TITLE SEARAY PLUG ASSEMBLY .050 CENTERS MOLEX INCORPORATED	
		4 PLACES	± ---	± ---	CHECKED BY		DATE		
		3 PLACES	± ---	± .010	JCOMERCI				
		2 PLACES	± ---	± .015	APPROVED BY		DATE		
		1 PLACE	± ---	± ---	JCOMERCI		2010/03/05		
		ANGULAR ± ---°							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					DOCUMENT NO. SD-45970-001		SHEET NO. 10 OF 10		
Q	REV				SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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Rev. E 2006/04/15

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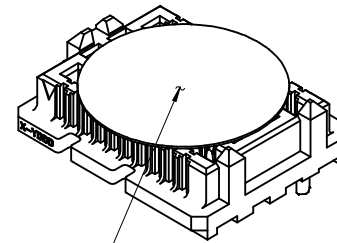
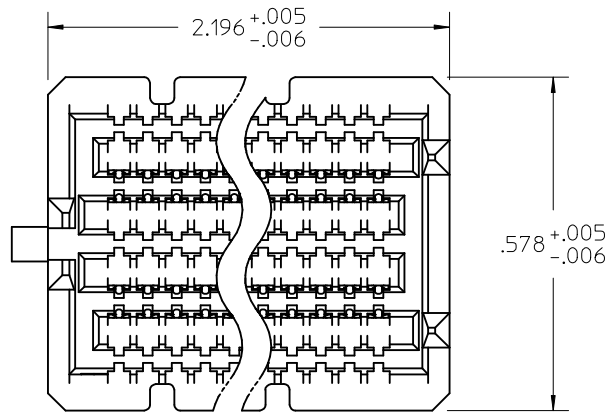
5

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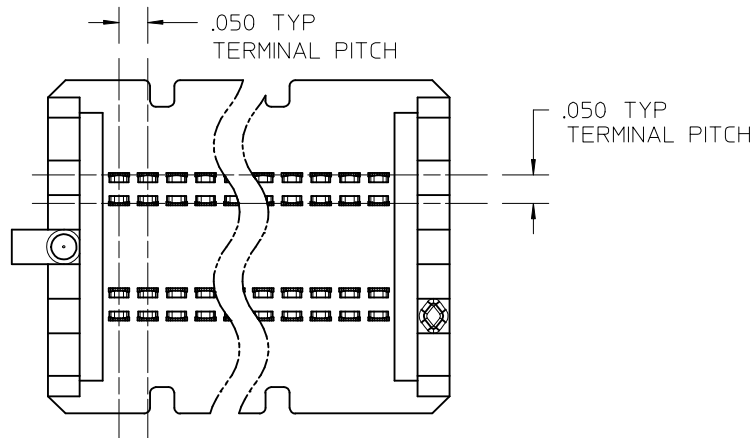
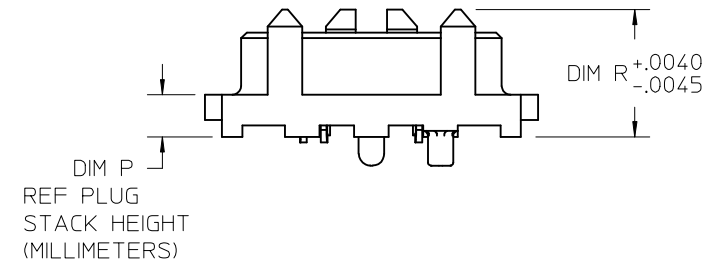
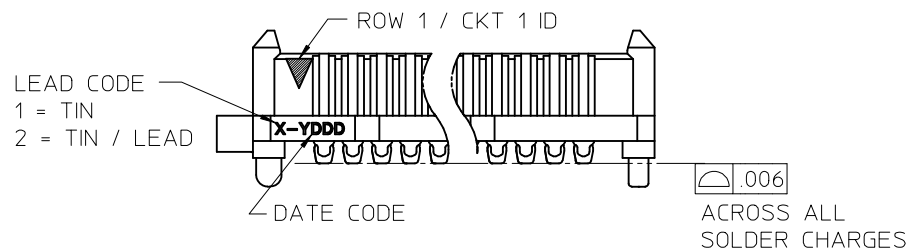
1



PICK AND
PLACE CAP

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	DESCRIPTION
EC NO: UCP2010-0292	2009/08/04
DRWN: TGREGORI	2009/08/04
CHKD: JCOMERC I	2009/08/05
APPR: JCOMERC I	2009/08/05
REV	
A	

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm$.010
2 PLACES	$\pm$ ---	$\pm$.015
1 PLACE	$\pm$ ---	$\pm$ ---
ANGULAR $\pm$ ---°		

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
MATERIAL NO.	
SEE CHART	
SIZE	
A	

SCALE 3:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	
TITLE SEARAY PLUG ASSEMBLY .050 CENTERS FOR VITA 57 SPEC			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-45970-057			SHEET NO. 1 OF 2

AINS INFORMATION THAT IS PROPRIETARY TO MOLEX
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