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Part Number:

0459703115

Status:

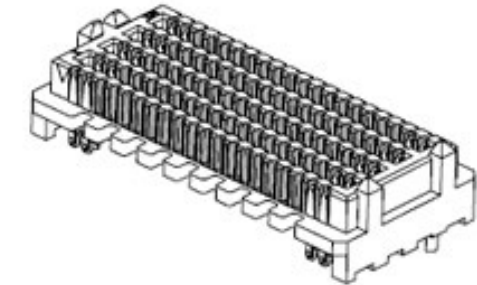
Active

Overview:

searay

Description:

1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 300 Circuits, 2.00mm (.078") Unmated Height, 10 Rows, Lead Free



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-45970-001 \(PDF\)](#)
- [Product Specification PS-45970-002 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	45970
Application	Board-to-Board
Overview	searay
Product Name	SEARAY*

Physical

Breakaway	No
Circuits (Loaded)	300
Circuits (maximum)	300
Circuits Detail	300
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	10
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to Mating Part	Yes
Polarized to PCB	Yes

EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status

China RoHS



Need more information on product
environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
45970Series

Mates With
45971 SEARAY* Receptacle

Robotic Placement	Pick and Place Cap
Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	2.7A
Voltage - Maximum	240V AC

Solder Process Data

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

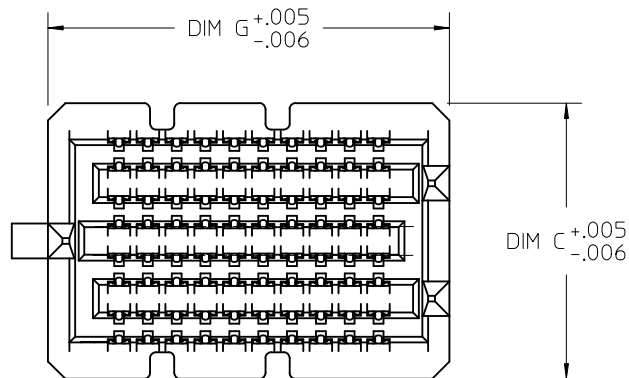
Reference - Drawing Numbers

Application Specification	AS-45970-002, AS-45970-990
Packaging Specification	PK-45970-001, PK-45970-002
Product Specification	PS-45970-001, PS-45970-002
Sales Drawing	SD-45970-001
Test Summary	TS-45970-001

*SEARAY is a trademark of Samtec, Inc.

This document was generated on 05/25/2010

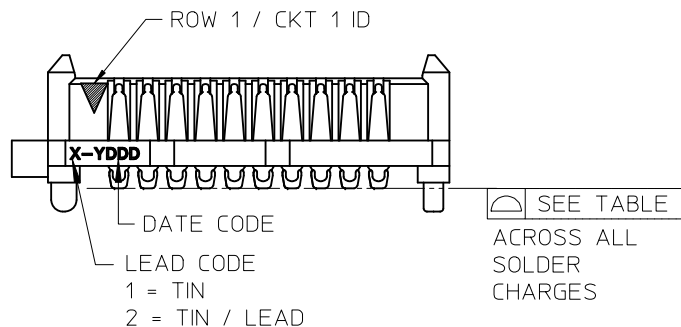
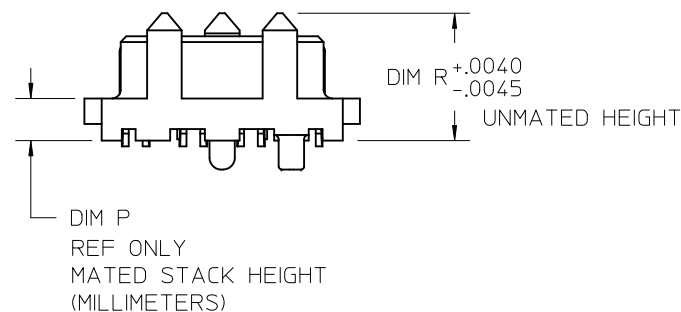
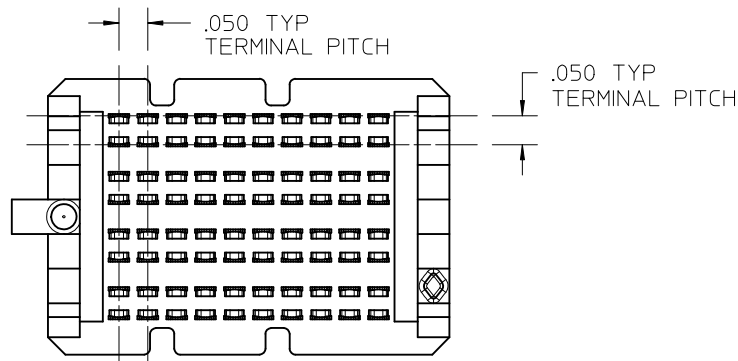
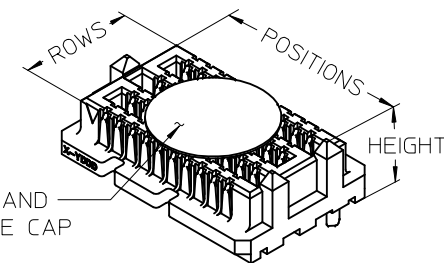
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NOTES:

1. MATERIAL: HOUSING: LCP, UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: SEE CHARTS
2. FINISH: ALL OPTIONS - SELECT GOLD IN CONTACT AREA: 30 MI MIN
OPTIONS 2.0 & 2.5: SELECT GOLD FLASH IN TAIL, 7 MI MIN
OPTIONS 3.0 THRU 7.0: SELECT TIN IN TAIL, 100 MI MIN
ALL 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

UPDATED NOTE 2	DESCRIPTION
EC NO: UCP2010-2270	
DRWN: TREGORI	2010/03/05
CHKD: JCOMERC I	2010/03/05
APPR: JCOMERC I	2010/03/05
M	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
JCOMERC I	
APPROVED BY	DATE
JCOMERC I	2010/03/05
MATERIAL NO.	
SEE CHART	
SIZE	
A	

SCALE 3:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	
TITLE			
SEARAY PLUG ASSEMBLY .050 CENTERS			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-45970-001			SHEET NO. 1 OF 10

D

C

B

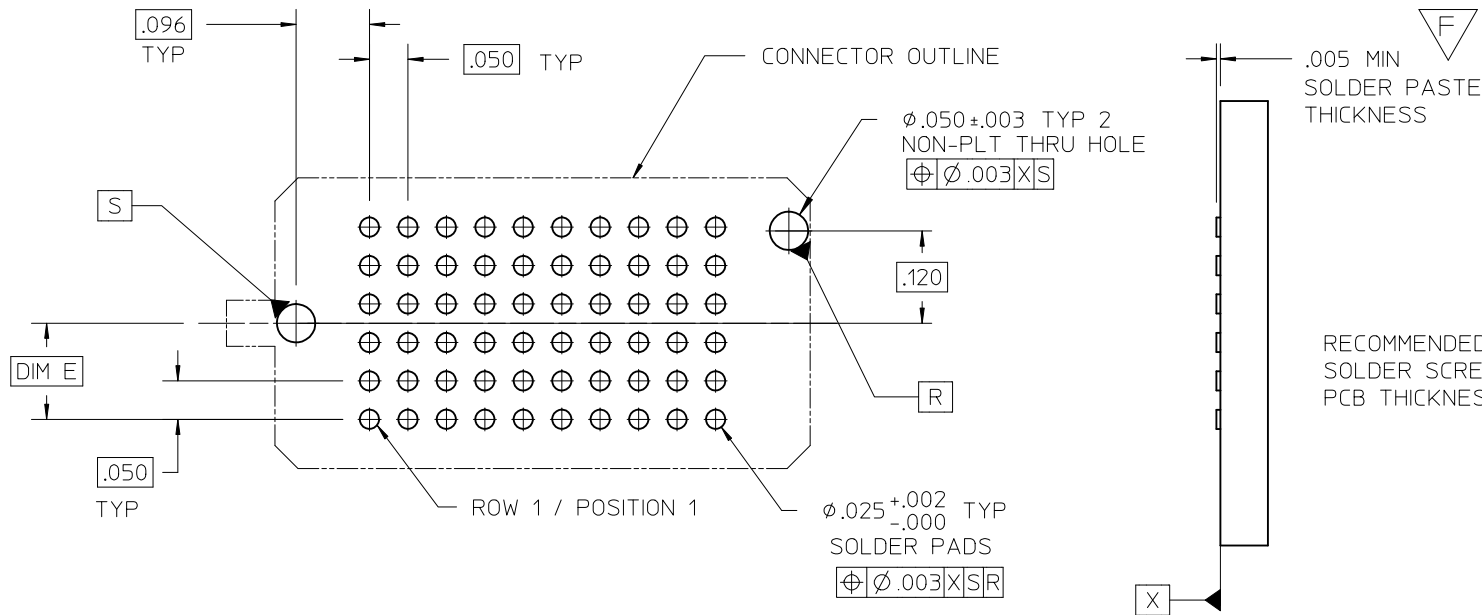
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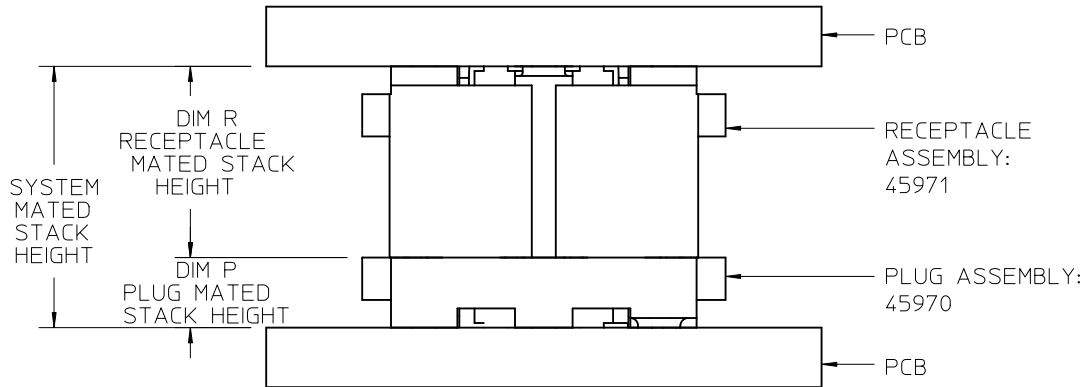
A



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

		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: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERC I 2010/03/05 APPR: JCOMERC I 2010/03/05 M	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							DATE
		3 PLACES	± ---	± .010	APPROVED BY JCOMERC I		DATE 2010/03/05	 MOLEX INCORPORATED				
		2 PLACES	± ---	± .015								
		1 PLACE	± ---	± ---								
		ANGULAR ± ---°					DOCUMENT NO. SD-45970-001					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										SHEET NO. 2 OF 10

6

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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	45970-0161	45970-0261	45970-0361	45970-0461	45970-0561	45970-0661	45970-0761
	10	0.696	45970-1161	45970-1261	45970-1361	45970-1461	45970-1561	45970-1661	45970-1761
	20	1.196	45970-2161	45970-2261	45970-2361	45970-2461	45970-2561	45970-2661	45970-2761
	30	1.696	45970-3161	45970-3261	45970-3361	45970-3461	45970-3561	45970-3661	45970-3761
	40	2.196	45970-4161	45970-4261	45970-4361	45970-4461	45970-4561	45970-4661	45970-4761
	50	2.696	45970-5161	45970-5261	45970-5361	45970-5461	45970-5561	45970-5661	45970-5761
	15	0.946	45970-6161	45970-6261	45970-6361	45970-6461	45970-6561	45970-6661	45970-6761
	25	1.446	45970-7161	45970-7261	45970-7361	45970-7461	45970-7561	45970-7661	45970-7761
	35	1.946	45970-8161	45970-8261	45970-8361	45970-8461	45970-8561	45970-8661	45970-8761
	45	2.446	45970-9161	45970-9261	45970-9361	45970-9461	45970-9561	45970-9661	45970-9761

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	45970-0165	45970-0265	45970-0365	45970-0465	45970-0565	45970-0665	45970-0765
	10	0.696	45970-1165	45970-1265	45970-1365	45970-1465	45970-1565	45970-1665	45970-1765
	20	1.196	45970-2165	45970-2265	45970-2365	45970-2465	45970-2565	45970-2665	45970-2765
	30	1.696	45970-3165	45970-3265	45970-3365	45970-3465	45970-3565	45970-3665	45970-3765
	40	2.196	45970-4165	45970-4265	45970-4365	45970-4465	45970-4565	45970-4665	45970-4765
	50	2.696	45970-5165	45970-5265	45970-5365	45970-5465	45970-5565	45970-5665	45970-5765
	15	0.946	45970-6165	45970-6265	45970-6365	45970-6465	45970-6565	45970-6665	45970-6765
	25	1.446	45970-7165	45970-7265	45970-7365	45970-7465	45970-7565	45970-7665	45970-7765
	35	1.946	45970-8165	45970-8265	45970-8365	45970-8465	45970-8565	45970-8665	45970-8765
	45	2.446	45970-9165	45970-9265	45970-9365	45970-9465	45970-9565	45970-9665	45970-9765

NOTES:

1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS:
NO OF ROWS: 6
SOLDER CHARGE: TIN
PACKAGING: TRAYS AND TAPE AND REEL

SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2010/03/05 APPR: JCOMERCI 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
		4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY TGREGORI	DATE 2005/01/27	TITLE SEARAY PLUG ASSEMBLY .050 CENTERS					
			± ---	± ---	CHECKED BY JCOMERCI	DATE						
			± ---	± .010	APPROVED BY JCOMERCI							DATE 2010/03/05
			± ---	± .015	MOLEX INCORPORATED							
			± ---	± ---								
		ANGULAR ± ---°			DOCUMENT NO. SD-45970-001		SHEET NO. 3 OF 10					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
		M	REV									

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Rev. E 2006/04/15

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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	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	45970-0263	45970-0363	45970-0463	45970-0563	45970-0663	45970-0763								
		10	0.696	45970-1163	45970-1263	45970-1363	45970-1463	45970-1563	45970-1663	45970-1763								
		20	1.196	45970-2163	45970-2263	45970-2363	45970-2463	45970-2563	45970-2663	45970-2763								
		30	1.696	45970-3163	45970-3263	45970-3363	45970-3463	45970-3563	45970-3663	45970-3763								
		40	2.196	45970-4163	45970-4263	45970-4363	45970-4463	45970-4563	45970-4663	45970-4763								
		50	2.696	45970-5163	45970-5263	45970-5363	45970-5463	45970-5563	45970-5663	45970-5763								
		15	0.946	45970-6163	45970-6263	45970-6363	45970-6463	45970-6563	45970-6663	45970-6763								
		25	1.446	45970-7163	45970-7263	45970-7363	45970-7463	45970-7563	45970-7663	45970-7763								
		35	1.946	45970-8163	45970-8263	45970-8363	45970-8463	45970-8563	45970-8663	45970-8763								
		45	2.446	45970-9163	45970-9263	45970-9363	45970-9463	45970-9563	45970-9663	45970-9763								
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	45970-0167	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								
A		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 6 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL																
		SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2010/03/05 APPR: JCOMERCI 2010/03/05	DESCRIPTION	REV	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										
					1 PLACE		± ---	± ---	ANGULAR ±---°		DOCUMENT NO. SD-45970-001			SHEET NO. 4 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									
					M													

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Rev. E 2006/04/15

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D		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	45970-0181		45970-0281		45970-0381		45970-0481		45970-0581		45970-0681		45970-0781	
		10	0.696	45970-1181		45970-1281		45970-1381		45970-1481		45970-1581		45970-1681		45970-1781	
		20	1.196	45970-2181		45970-2281		45970-2381		45970-2481		45970-2581		45970-2681		45970-2781	
		30	1.696	45970-3181		45970-3281		45970-3381		45970-3481		45970-3581		45970-3681		45970-3781	
		40	2.196	45970-4181		45970-4281		45970-4381		45970-4481		45970-4581		45970-4681		45970-4781	
		50	2.696	45970-5181		45970-5281		45970-5381		45970-5481		45970-5581		45970-5681		45970-5781	
		15	0.946	45970-6181		45970-6281		45970-6381		45970-6481		45970-6581		45970-6681		45970-6781	
		25	1.446	45970-7181		45970-7281		45970-7381		45970-7481		45970-7581		45970-7681		45970-7781	
		35	1.946	45970-8181		45970-8281		45970-8381		45970-8481		45970-8581		45970-8681		45970-8781	
45	2.446	45970-9181		45970-9281		45970-9381		45970-9481		45970-9581		45970-9681		45970-9781			
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	45970-0185		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 PACKAGING: TRAYS AND TAPE AND REEL															
		SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2010/03/05 APPR: JCOMERCI 2010/03/05		DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION					
					mm		INCH		DRAWN BY DATE		TITLE						
					4 PLACES ± ---		± ---		TGREGORI 2005/01/27		SEARAY PLUG ASSEMBLY .050 CENTERS						
					3 PLACES ± ---		± .010		CHECKED BY DATE								
					2 PLACES ± ---		± .015		JCOMERCI								
					1 PLACE ± ---		± ---		APPROVED BY DATE		 MOLEX INCORPORATED						
					ANGULAR ± ---°		JCOMERCI 2010/03/05										
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					DOCUMENT NO.		SHEET NO.					
										SD-45970-001		5 OF 10					
					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		45970-0283		45970-0383		45970-0483		45970-0583		45970-0683		45970-0783		
		10	0.696	45970-1183		45970-1283		45970-1383		45970-1483		45970-1583		45970-1683		45970-1783		
		20	1.196	45970-2183		45970-2283		45970-2383		45970-2483		45970-2583		45970-2683		45970-2783		
		30	1.696	45970-3183		45970-3283		45970-3383		45970-3483		45970-3583		45970-3683		45970-3783		
		40	2.196	45970-4183		45970-4283		45970-4383		45970-4483		45970-4583		45970-4683		45970-4783		
		50	2.696	45970-5183		45970-5283		45970-5383		45970-5483		45970-5583		45970-5683		45970-5783		
		15	0.446	45970-6183		45970-6283		45970-6383		45970-6483		45970-6583		45970-6683		45970-6783		
		25	0.946	45970-7183		45970-7283		45970-7383		45970-7483		45970-7583		45970-7683		45970-7783		
		35	1.446	45970-8183		45970-8283		45970-8383		45970-8483		45970-8583		45970-8683		45970-8783		
		45	1.946	45970-9183		45970-9283		45970-9383		45970-9483		45970-9583		45970-9683		45970-9783		
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 PACKAGING: TRAYS AND TAPE AND REEL																	
	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2010/03/05 APPR: JCOMERCI 2010/03/05 M	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		SEARAY PLUG ASSEMBLY .050 CENTERS MOLEX INCORPORATED					
				mm	INCH	DRAWN BY TGREGORI	DATE 2005/01/27	TITLE										
			4 PLACES	± ---	± ---	CHECKED BY JCOMERCI	DATE											
			3 PLACES	± ---	± .010	APPROVED BY JCOMERCI		DATE 2010/03/05	DOCUMENT NO. SD-45970-001		SHEET NO. 6 OF 10							
			2 PLACES	± ---	± .015	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS												
			1 PLACE	± ---	± ---	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		D						
		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	45970-0111		45970-0211		45970-0311		45970-0411		45970-0511		45970-0611		45970-0711								
		10	0.696	45970-1111		45970-1211		45970-1311		45970-1411		45970-1511		45970-1611		45970-1711								
		20	1.196	45970-2111		45970-2211		45970-2311		45970-2411		45970-2511		45970-2611		45970-2711								
		30	1.696	45970-3111		45970-3211		45970-3311		45970-3411		45970-3511		45970-3611		45970-3711								
		40	2.196	45970-4111		45970-4211		45970-4311		45970-4411		45970-4511		45970-4611		45970-4711								
		50	2.696	45970-5111		45970-5211		45970-5311		45970-5411		45970-5511		45970-5611		45970-5711								
		15	0.946	45970-6111		45970-6211		45970-6311		45970-6411		45970-6511		45970-6611		45970-6711								
		25	1.446	45970-7111		45970-7211		45970-7311		45970-7411		45970-7511		45970-7611		45970-7711								
		35	1.946	45970-8111		45970-8211		45970-8311		45970-8411		45970-8511		45970-8611		45970-8711								
		45	2.446	45970-9111		45970-9211		45970-9311		45970-9411		45970-9511		45970-9611		45970-9711								
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		C						
		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	45970-0115		45970-0215		45970-0315		45970-0415		45970-0515		45970-0615		45970-0715								
		10	0.696	45970-1115		45970-1215		45970-1315		45970-1415		45970-1515		45970-1615		45970-1715								
		20	1.196	45970-2115		45970-2215		45970-2315		45970-2415		45970-2515		45970-2615		45970-2715								
		30	1.696	45970-3115		45970-3215		45970-3315		45970-3415		45970-3515		45970-3615		45970-3715								
		40	2.196	45970-4115		45970-4215		45970-4315		45970-4415		45970-4515		45970-4615		45970-4715								
		50	2.696	45970-5115		45970-5215		45970-5315		45970-5415		45970-5515		45970-5615		45970-5715								
		15	0.946	45970-6115		45970-6215		45970-6315		45970-6415		45970-6515		45970-6615		45970-6715								
		25	1.446	45970-7115		45970-7215		45970-7315		45970-7415		45970-7515		45970-7615		45970-7715								
		35	1.946	45970-8115		45970-8215		45970-8315		45970-8415		45970-8515		45970-8615		45970-8715								
		45	2.446	45970-9115		45970-9215		45970-9315		45970-9415		45970-9515		45970-9615		45970-9715								
B		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 10 SOLDER CHARGE: TIN PACKAGING: TRAYS AND TAPE AND REEL																B						
A		SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2010/03/05 APPR: JCOMERCI 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				A								
						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																	
				1 PLACE		± ---	± ---	ANGULAR ± ---°						MOLEX INCORPORATED										
				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							DOCUMENT NO. SD-45970-001		SHEET NO. 7 OF 10					
				M		REV																		
</																								

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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	45970-0113	45970-0213	45970-0313	45970-0413	45970-0513	45970-0613	45970-0713
10	0.696	45970-1113	45970-1213	45970-1313	45970-1413	45970-1513	45970-1613	45970-1713
20	1.196	45970-2113	45970-2213	45970-2313	45970-2413	45970-2513	45970-2613	45970-2713
30	1.696	45970-3113	45970-3213	45970-3313	45970-3413	45970-3513	45970-3613	45970-3713
40	2.196	45970-4113	45970-4213	45970-4313	45970-4413	45970-4513	45970-4613	45970-4713
50	2.696	45970-5113	45970-5213	45970-5313	45970-5413	45970-5513	45970-5613	45970-5713
15	0.946	45970-6113	45970-6213	45970-6313	45970-6413	45970-6513	45970-6613	45970-6713
25	1.446	45970-7113	45970-7213	45970-7313	45970-7413	45970-7513	45970-7613	45970-7713
35	1.946	45970-8113	45970-8213	45970-8313	45970-8413	45970-8513	45970-8613	45970-8713
45	2.446	45970-9113	45970-9213	45970-9313	45970-9413	45970-9513	45970-9613	45970-9713

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	45970-0117	45970-0217	45970-0317	45970-0417	45970-0517	45970-0617	45970-0717
10	0.696	45970-1117	45970-1217	45970-1317	45970-1417	45970-1517	45970-1617	45970-1717
20	1.196	45970-2117	45970-2217	45970-2317	45970-2417	45970-2517	45970-2617	45970-2717
30	1.696	45970-3117	45970-3217	45970-3317	45970-3417	45970-3517	45970-3617	45970-3717
40	2.196	45970-4117	45970-4217	45970-4317	45970-4417	45970-4517	45970-4617	45970-4717
50	2.696	45970-5117	45970-5217	45970-5317	45970-5417	45970-5517	45970-5617	45970-5717
15	0.946	45970-6117	45970-6217	45970-6317	45970-6417	45970-6517	45970-6617	45970-6717
25	1.446	45970-7117	45970-7217	45970-7317	45970-7417	45970-7517	45970-7617	45970-7717
35	1.946	45970-8117	45970-8217	45970-8317	45970-8417	45970-8517	45970-8617	45970-8717
45	2.446	45970-9117	45970-9217	45970-9317	45970-9417	45970-9517	45970-9617	45970-9717

NOTES:
1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS
ROWS: 10
SOLDER CHARGE: TIN / LEAD
PACKAGING: TRAYS AND TAPE AND REEL

SEE SHEET 1
EC NO: UCP2010-2270
DRWN: TREGOR I 2010/03/05
CHKD: JCOMERC I 2010/03/05
APPR: JCOMERC I 2010/03/05

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

TGREGOR I 2005/01/27

CHECKED BY

DATE

JCOMERC I

APPROVED BY

DATE

JCOMERC I 2010/03/05

SIZE

A

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

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

TITLE

SEARAY
PLUG ASSEMBLY
.050 CENTERS

MOLEX INCORPORATED

DOCUMENT NO.

SD-45970-001

SHEET NO.

8 OF 10

tb_frame_A_P_AM_T
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	45970-0121		45970-0221		45970-0321		45970-0421		45970-0521		45970-0621		45970-0721			
		10	0.696	45970-1121		45970-1221		45970-1321		45970-1421		45970-1521		45970-1621		45970-1721			
		20	1.196	45970-2121		45970-2221		45970-2321		45970-2421		45970-2521		45970-2621		45970-2721			
		30	1.696	45970-3121		45970-3221		45970-3321		45970-3421		45970-3521		45970-3621		45970-3721			
		40	2.196	45970-4121		45970-4221		45970-4321		45970-4421		45970-4521		45970-4621		45970-4721			
		50	2.696	45970-5121		45970-5221		45970-5321		45970-5421		45970-5521		45970-5621		45970-5721			
		15	0.946	45970-6121		45970-6221		45970-6321		45970-6421		45970-6521		45970-6621		45970-6721			
		25	1.446	45970-7121		45970-7221		45970-7321		45970-7421		45970-7521		45970-7621		45970-7721			
		35	1.946	45970-8121		45970-8221		45970-8321		45970-8421		45970-8521		45970-8621		45970-8721			
		45	2.446	45970-9121		45970-9221		45970-9321		45970-9421		45970-9521		45970-9621		45970-9721			
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			
A	NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 12 SOLDER CHARGE: TIN PACKAGING: TRAYS AND TAPE AND REEL																		
	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2010/03/05 APPR: JCOMERCI 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE INCH ONLY		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION								
					mm	INCH	DRAWN BY DATE TGREGORI 2005/01/27		TITLE SEARAY PLUG ASSEMBLY .050 CENTERS MOLEX INCORPORATED										
			4 PLACES		± ---	± ---	CHECKED BY DATE JCOMERCI												
			3 PLACES		± ---	± .010	APPROVED BY DATE JCOMERCI 2010/03/05												
			2 PLACES		± ---	± .015	DOCUMENT NO. SD-45970-001												
			1 PLACE		± ---	± ---	SHEET NO. 9 OF 10												
			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														
			M		REV														
			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		D
		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	45970-0123		45970-0223		45970-0323		45970-0423		45970-0523		45970-0623		45970-0723		
		10	0.696	45970-1123		45970-1223		45970-1323		45970-1423		45970-1523		45970-1623		45970-1723		
		20	1.196	45970-2123		45970-2223		45970-2323		45970-2423		45970-2523		45970-2623		45970-2723		
		30	1.696	45970-3123		45970-3223		45970-3323		45970-3423		45970-3523		45970-3623		45970-3723		
		40	2.196	45970-4123		45970-4223		45970-4323		45970-4423		45970-4523		45970-4623		45970-4723		
		50	2.696	45970-5123		45970-5223		45970-5323		45970-5423		45970-5523		45970-5623		45970-5723		
		15	0.946	45970-6123		45970-6223		45970-6323		45970-6423		45970-6523		45970-6623		45970-6723		
		25	1.446	45970-7123		45970-7223		45970-7323		45970-7423		45970-7523		45970-7623		45970-7723		
		35	1.946	45970-8123		45970-8223		45970-8323		45970-8423		45970-8523		45970-8623		45970-8723		
		45	2.446	45970-9123		45970-9223		45970-9323		45970-9423		45970-9523		45970-9623		45970-9723		
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		C
		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		
B		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS ROWS: 12 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL															B	
A		GENERAL TOLERANCES (UNLESS SPECIFIED)															A	
		DIMENSION STYLE INCH ONLY																
		SCALE 4:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION																
		DRAWN BY TGREGORI DATE 2005/01/27																
		CHECKED BY JCOMERCI DATE																
		APPROVED BY JCOMERCI DATE 2010/03/05																
		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																
		TITLE SEARAY PLUG ASSEMBLY .050 CENTERS																
		MOLEX MOLEX INCORPORATED																
		DOCUMENT NO. SD-45970-001 SHEET NO. 10 OF 10																
		tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3		2		1						