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Part Number: [0459713185](#)
Status: **Active**
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Receptacle, 240 Circuits, 5.00mm (.196") Unmated Height, 8 Rows, With Pegs, Solder Charge™ Lead Free

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

Agency Certification

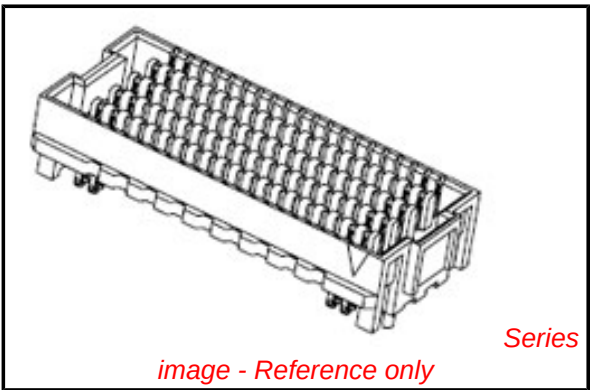
CSA LR19980
UL E29179

General

Product Family PCB Receptacles
Series [45971](#)
Application Board-to-Board
Product Name SEARAY*

Physical

Circuits (Loaded) 240
Circuits (maximum) 240
Circuits Detail 240
Color - Resin Black
Durability (mating cycles max) 100
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part No
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 8
Orientation Vertical
PC Tail Length (in) 0.086 In
PC Tail Length (mm) 2.18 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.57 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
Robotic Placement Pick and Place Cap
Stackable No



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

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
[45971Series](#)

Mates With
[45970 SEARAY* Plug](#)

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
Grounding to PCB	No
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

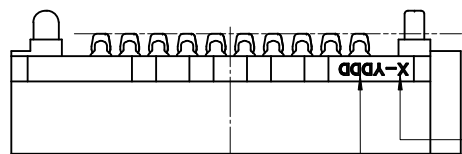
Reference - Drawing Numbers

Application Specification	AS-45970-001, AS-45970-002, AS-45970-990
Packaging Specification	PK-45971-001, PK-45971-002
Product Specification	PS-45970-001, PS-45970-002
Sales Drawing	SD-45971-001
Test Summary	TS-45970-001

*SEARAY is a trademark of Samtec, Inc.

This document was generated on 05/25/2010

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DATE CODE

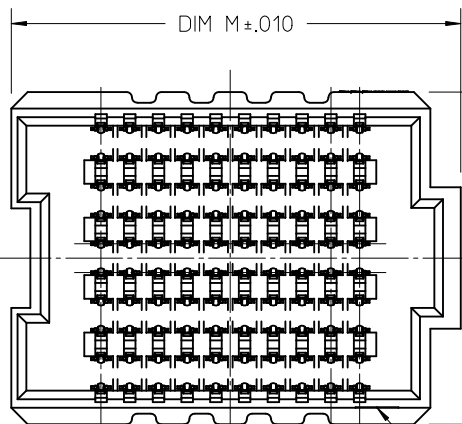


ACROSS ALL
SOLDER CHARGES

LEAD CODE:

1 = TIN

2 = TIN / LEAD

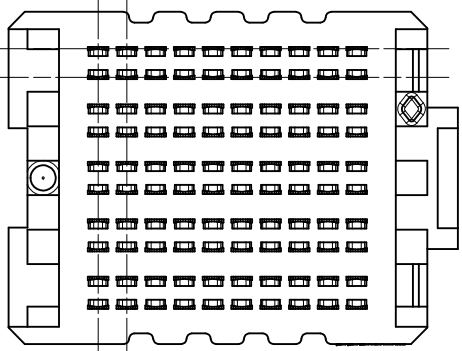


DIM M $\pm .010$

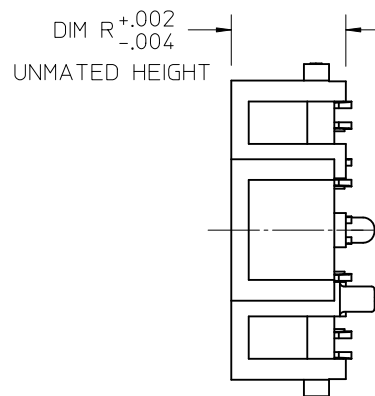
DIM C $\pm .010$

ROW 1 / POSITION 1 ID THIS SIDE

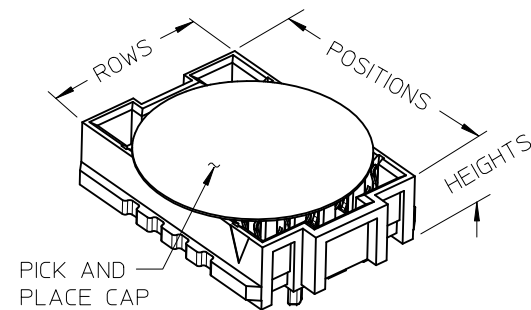
.050 TYP
TERMINAL PITCH



.050 TYP
TERMINAL PITCH



DIM R $^{+.002}_{-.004}$
UNMATED HEIGHT



NOTES:

- MATERIALS: HOUSING: LCP, UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: SEE CHART
- FINISH: ALL OPTIONS - SELECT GOLD IN CONTACT AREA: 30 MI MIN
OPTIONS 5.0: SELECT GOLD FLASH IN TAIL, 7 MI MIN
OPTIONS 6.0 THRU 8.0: SELECT TIN IN TAIL, 100 MI MIN
ALL OPTIONS - OVER NICKEL
- PRODUCT SPECIFICATION: PS-45970-001
- PACKAGING SPECIFICATION: SEE CHART
- MATES WITH SEARAY PLUG ASSEMBLY 45970
- APPLICATION SPECIFICATION: AS-45970-001
- COSMETIC SPECIFICATION: PS-45499-002 CLASS B
- PART STATUS: CONTACT MOLEX

UPDATED NOTE 2 EC NO: UCP2010-2270 DRWN: TREGORI 2010/03/05 CHKD: JCOMERC 2005/05/17 APPR: JCOMERC 2010/03/05	DESCRIPTION	
O	REV	

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm .005$
2 PLACES	$\pm$ ---	$\pm$ ---
1 PLACE	$\pm$ ---	$\pm$ ---
ANGULAR $\pm$ ---°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE INCH ONLY	
DRAWN BY	DATE
TGREGORI	2005/05/17
CHECKED BY	DATE
JCOMERC	2005/05/17
APPROVED BY	DATE
JCOMERC	2010/03/05
MATERIAL NO.	
SEE CHART	
SIZE	
A	

SCALE 3:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	
TITLE			
SEARAY RECEPTACLE ASSEMBLY .050 CENTERS			
MOLEX INCORPORATED			
DOCUMENT NO. SD-45971-001			SHEET NO. 1 OF 10
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

6

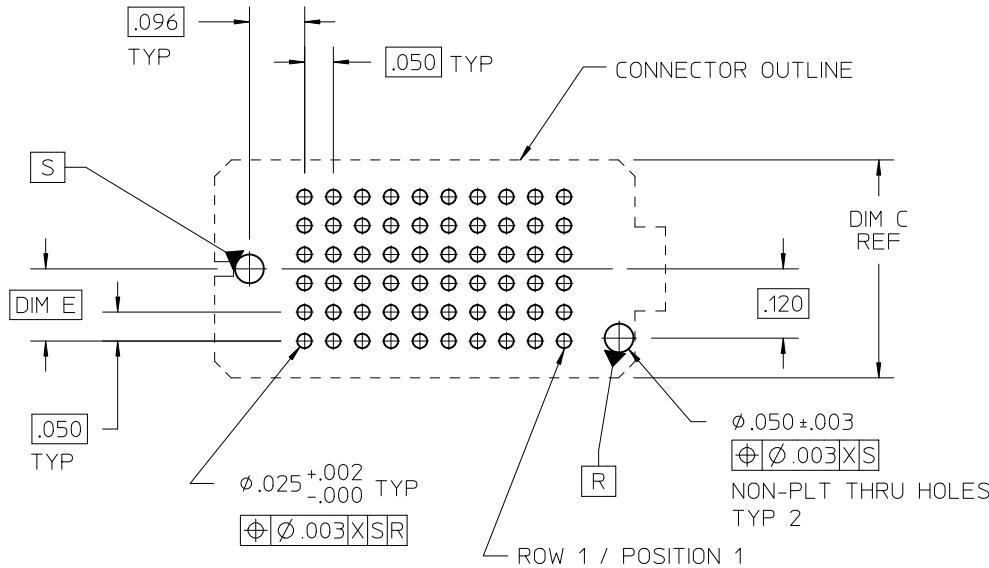
5

4

3

2

1

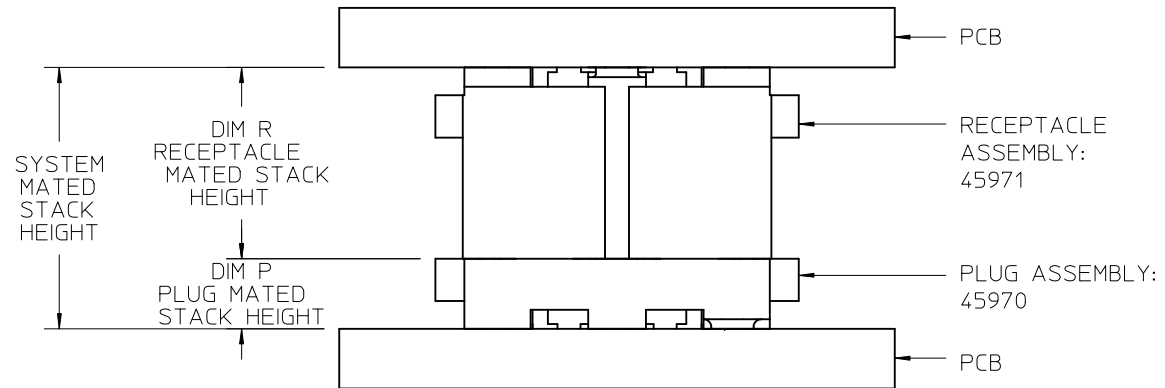


.005
MIN SOLDER
PASTE THICKNESS

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 P PLUG STACK HEIGHT	DIM R RECEPTACLE STACK HEIGHT					
	MM	5.0	6.0	6.5	7.5	8.0
	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	



STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY

MATED STACK HEIGHTS
(MILLIMETERS) REF

SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 3:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY TREGORI	DATE 2005/05/17	TITLE SEARAY RECEPTACLE ASSEMBLY .050 CENTERS				
		4 PLACES	± ---	± ---	CHECKED BY JCOMERC I	DATE 2005/05/17					
		3 PLACES	± ---	± .005	APPROVED BY JCOMERC I	DATE 2010/03/05	MOLEX INCORPORATED				
		2 PLACES	± ---	± ---	MATERIAL NO. SEE CHARTS	DOCUMENT NO. SD-45971-001					
		1 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
	ANGULAR ± ---°										
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A						

D	TRAY PACK PK-45971-001	6		5		4		3		2		1																		
		DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																
		DIM R: HOUSING HEIGHT																												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO																		
		19	1.232	45971-0161		45971-0261		45971-0361		45971-0461		45971-0561																		
		10	0.782	45971-1161		45971-1261		45971-1361		45971-1461		45971-1561																		
		20	1.282	45971-2161		45971-2261		45971-2361		45971-2461		45971-2561																		
		30	1.782	45971-3161		45971-3261		45971-3361		45971-3461		45971-3561																		
		40	2.282	45971-4161		45971-4261		45971-4361		45971-4461		45971-4561																		
		50	2.782	45971-5161		45971-5261		45971-5361		45971-5461		45971-5561																		
		15	1.032	45971-6161		45971-6261		45971-6361		45971-6461		45971-6561																		
		25	1.532	45971-7161		45971-7261		45971-7361		45971-7461		45971-7561																		
35	2.032	45971-8161		45971-8261		45971-8361		45971-8461		45971-8561																				
45	2.532	45971-9161		45971-9261		45971-9361		45971-9461		45971-9561																				
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																
		DIM R: HOUSING HEIGHT																												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO																		
		19	1.232	45971-0165		45971-0265		45971-0365		45971-0465		45971-0565																		
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		20	1.282	45971-2165		45971-2265		45971-2365		45971-2465		45971-2565																		
		30	1.782	45971-3165		45971-3265		45971-3365		45971-3465		45971-3565																		
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		50	2.782	45971-5165		45971-5265		45971-5365		45971-5465		45971-5565																		
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B		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 6 SOLDER CHARGE: TIN PACKAGING: TRAYS AND TAPE AND REEL																												
A		SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05 REV DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .005</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± ---°</td></tr></table>			mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .005	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ± ---°			DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
							mm	INCH																						
						4 PLACES	± ---	± ---																						
						3 PLACES	± ---	± .005																						
						2 PLACES	± ---	± ---																						
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						ANGULAR ± ---°																								
						DRAWN BY DATE TGREGORI 2005/05/17		TITLE SEARAY RECEPTACLE ASSEMBLY .050 CENTERS																						
						CHECKED BY DATE JCOMERC I 2005/05/17		APPROVED BY DATE JCOMERC I 2010/03/05		MOLEX INCORPORATED		DOCUMENT NO. SD-45971-001		SHEET NO. 3 OF 10																
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				
		SIZE A																												
		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 R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY									
		DIM R: HOUSING HEIGHT																					
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO											
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		30	1.782	45971-3163		45971-3263		45971-3363		45971-3463		45971-3563											
		40	2.282	45971-4163		45971-4263		45971-4363		45971-4463		45971-4563											
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B	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY									
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A	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY									
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45	2.532	45971-9167		45971-9267		45971-9367		45971-9467		45971-9567													
NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 6 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL																							
tb_frame_A_P_AM_T Rev. E 2006/04/15																							

		6				5				4				3				2				1						
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY														
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		15		1.032	45971-6181		45971-6281		45971-6381		45971-6481		45971-6581															
		25		1.532	45971-7181		45971-7281		45971-7381		45971-7481		45971-7581															
		35		2.032	45971-8181		45971-8281		45971-8381		45971-8481		45971-8581															
45		2.532	45971-9181		45971-9281		45971-9381		45971-9481		45971-9581																	
B	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY														
		DIM R: HOUSING HEIGHT																										
		POSITION		DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO															
		19		1.232	45971-0185		45971-0285		45971-0385		45971-0485		45971-0585															
		10		0.782	45971-1185		45971-1285		45971-1385		45971-1485		45971-1585															
		20		1.282	45971-2185		45971-2285		45971-2385		45971-2485		45971-2585															
		30		1.782	45971-3185		45971-3285		45971-3385		45971-3485		45971-3585															
		40		2.282	45971-4185		45971-4285		45971-4385		45971-4485		45971-4585															
		50		2.782	45971-5185		45971-5285		45971-5385		45971-5485		45971-5585															
		15		1.032	45971-6185		45971-6285		45971-6385		45971-6485		45971-6585															
		25		1.532	45971-7185		45971-7285		45971-7385		45971-7485		45971-7585															
		35		2.032	45971-8185		45971-8285		45971-8385		45971-8485		45971-8585															
45		2.532	45971-9185		45971-9285		45971-9385		45971-9485		45971-9585																	
A	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05		REV		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE INCH ONLY				SCALE 1:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION									
									mm		INCH		DRAWN BY TGREGORI		DATE 2005/05/17		TITLE SEARAY RECEPTACLE ASSEMBLY .050 CENTERS MOLEX INCORPORATED											
							4 PLACES		± ---		± ---		CHECKED BY JCOMERC I		DATE 2005/05/17													
							3 PLACES		± ---		± .005		APPROVED BY JCOMERC I		DATE 2010/03/05													
							2 PLACES		± ---		± ---		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001													
							1 PLACE		± ---		± ---		SHEET NO. 5 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													
							tb_frame_A_P_AM_T Rev. E 2006/04/15		5				4				3				2				1			

NOTES:
 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS
 NO OF ROWS: 8
 SOLDER CHARGE: TIN
 PACKAGING: TRAYS AND TAPE AND REEL

		6		5		4		3		2		1																																																						
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																																																				
		DIM R: HOUSING HEIGHT																																																																
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO																																																						
		19	1.232	45971-0183		45971-0283		45971-0383		45971-0483		45971-0583																																																						
		10	0.782	45971-1183		45971-1283		45971-1383		45971-1483		45971-1583																																																						
		20	1.282	45971-2183		45971-2283		45971-2383		45971-2483		45971-2583																																																						
		30	1.782	45971-3183		45971-3283		45971-3383		45971-3483		45971-3583																																																						
		40	2.282	45971-4183		45971-4283		45971-4383		45971-4483		45971-4583																																																						
		50	2.782	45971-5183		45971-5283		45971-5383		45971-5483		45971-5583																																																						
		15	1.032	45971-6183		45971-6283		45971-6383		45971-6483		45971-6583																																																						
		25	1.532	45971-7183		45971-7283		45971-7383		45971-7483		45971-7583																																																						
		35	2.032	45971-8183		45971-8283		45971-8383		45971-8483		45971-8583																																																						
45	2.532	45971-9183		45971-9283		45971-9383		45971-9483		45971-9583																																																								
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																																																				
		DIM R: HOUSING HEIGHT																																																																
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO																																																						
		19	1.232	45971-0187		45971-0287		45971-0387		45971-0487		45971-0587																																																						
		10	0.782	45971-1187		45971-1287		45971-1387		45971-1487		45971-1587																																																						
		20	1.282	45971-2187		45971-2287		45971-2387		45971-2487		45971-2587																																																						
		30	1.782	45971-3187		45971-3287		45971-3387		45971-3487		45971-3587																																																						
		40	2.282	45971-4187		45971-4287		45971-4387		45971-4487		45971-4587																																																						
		50	2.782	45971-5187		45971-5287		45971-5387		45971-5487		45971-5587																																																						
		15	1.032	45971-6187		45971-6287		45971-6387		45971-6487		45971-6587																																																						
		25	1.532	45971-7187		45971-7287		45971-7387		45971-7487		45971-7587																																																						
		35	2.032	45971-8187		45971-8287		45971-8387		45971-8487		45971-8587																																																						
45	2.532	45971-9187		45971-9287		45971-9387		45971-9487		45971-9587																																																								
B	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																																																				
		DIM R: HOUSING HEIGHT																																																																
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO																																																						
		19	1.232	45971-0187		45971-0287		45971-0387		45971-0487		45971-0587																																																						
		10	0.782	45971-1187		45971-1287		45971-1387		45971-1487		45971-1587																																																						
		20	1.282	45971-2187		45971-2287		45971-2387		45971-2487		45971-2587																																																						
		30	1.782	45971-3187		45971-3287		45971-3387		45971-3487		45971-3587																																																						
		40	2.282	45971-4187		45971-4287		45971-4387		45971-4487		45971-4587																																																						
		50	2.782	45971-5187		45971-5287		45971-5387		45971-5487		45971-5587																																																						
		15	1.032	45971-6187		45971-6287		45971-6387		45971-6487		45971-6587																																																						
		25	1.532	45971-7187		45971-7287		45971-7387		45971-7487		45971-7587																																																						
		35	2.032	45971-8187		45971-8287		45971-8387		45971-8487		45971-8587																																																						
45	2.532	45971-9187		45971-9287		45971-9387		45971-9487		45971-9587																																																								
A	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																																																				
		DIM R: HOUSING HEIGHT																																																																
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO																																																						
		19	1.232	45971-0187		45971-0287		45971-0387		45971-0487		45971-0587																																																						
		10	0.782	45971-1187		45971-1287		45971-1387		45971-1487		45971-1587																																																						
		20	1.282	45971-2187		45971-2287		45971-2387		45971-2487		45971-2587																																																						
		30	1.782	45971-3187		45971-3287		45971-3387		45971-3487		45971-3587																																																						
		40	2.282	45971-4187		45971-4287		45971-4387		45971-4487		45971-4587																																																						
		50	2.782	45971-5187		45971-5287		45971-5387		45971-5487		45971-5587																																																						
		15	1.032	45971-6187		45971-6287		45971-6387		45971-6487		45971-6587																																																						
		25	1.532	45971-7187		45971-7287		45971-7387		45971-7487		45971-7587																																																						
		35	2.032	45971-8187		45971-8287		45971-8387		45971-8487		45971-8587																																																						
45	2.532	45971-9187		45971-9287		45971-9387		45971-9487		45971-9587																																																								
NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 8 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL																																																																		
<table><tr><td rowspan="5">SEE SHEET 1 EC NO: UCP2010-2270 DRWN:TGREGORI 2010/03/05 CHKD:JCOMERC I 2005/05/17 APPR:JCOMERC I 2010/03/05</td><td rowspan="5">DESCRIPTION</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE INCH ONLY</td><td>SCALE 1:1</td><td>DESIGN UNITS INCH</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td></td><td>mm</td><td>INCH</td><td>DRAWN BY TGREGORI</td><td>DATE 2005/05/17</td><td colspan="4" rowspan="3">SEARAY RECEPTACLE ASSEMBLY .050 CENTERS</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td><td>CHECKED BY JCOMERC I</td><td>DATE 2005/05/17</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .005</td><td>APPROVED BY JCOMERC I</td><td>DATE 2010/03/05</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td><td colspan="2">ANGULAR ± ---°</td><td colspan="2">MATERIAL NO. SEE CHART</td><td colspan="2">DOCUMENT NO. SD-45971-001</td><td colspan="2">SHEET NO. 6 OF 10</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SIZE A</td><td colspan="6">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>														SEE SHEET 1 EC NO: UCP2010-2270 DRWN:TGREGORI 2010/03/05 CHKD:JCOMERC I 2005/05/17 APPR:JCOMERC I 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			mm	INCH	DRAWN BY TGREGORI	DATE 2005/05/17	SEARAY RECEPTACLE ASSEMBLY .050 CENTERS				4 PLACES	± ---	± ---	CHECKED BY JCOMERC I	DATE 2005/05/17	3 PLACES	± ---	± .005	APPROVED BY JCOMERC I	DATE 2010/03/05	2 PLACES	± ---	± ---	ANGULAR ± ---°		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001		SHEET NO. 6 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					
SEE SHEET 1 EC NO: UCP2010-2270 DRWN:TGREGORI 2010/03/05 CHKD:JCOMERC I 2005/05/17 APPR:JCOMERC I 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION																																																										
			mm	INCH	DRAWN BY TGREGORI	DATE 2005/05/17	SEARAY RECEPTACLE ASSEMBLY .050 CENTERS																																																											
		4 PLACES	± ---	± ---	CHECKED BY JCOMERC I	DATE 2005/05/17																																																												
		3 PLACES	± ---	± .005	APPROVED BY JCOMERC I	DATE 2010/03/05																																																												
		2 PLACES	± ---	± ---	ANGULAR ± ---°		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001		SHEET NO. 6 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																																																											
tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3		2		1																																																								

D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM	6.0 MM	6.5 MM	7.5 MM	8.0 MM	STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY				
		DIM R: HOUSING HEIGHT		.199	.238	.258	.297	.297					
		POSITION	DIM M	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO					
		19	1.232	45971-0111	45971-0211	45971-0311	45971-0411	45971-0511					
		10	0.782	45971-1111	45971-1211	45971-1311	45971-1411	45971-1511					
		20	1.282	45971-2111	45971-2211	45971-2311	45971-2411	45971-2511					
		30	1.782	45971-3111	45971-3211	45971-3311	45971-3411	45971-3511					
		40	2.282	45971-4111	45971-4211	45971-4311	45971-4411	45971-4511					
		50	2.782	45971-5111	45971-5211	45971-5311	45971-5411	45971-5511					
		15	1.032	45971-6111	45971-6211	45971-6311	45971-6411	45971-6511					
		25	1.532	45971-7111	45971-7211	45971-7311	45971-7411	45971-7511					
		35	2.032	45971-8111	45971-8211	45971-8311	45971-8411	45971-8511					
		45	2.532	45971-9111	45971-9211	45971-9311	45971-9411	45971-9511					
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM	6.0 MM	6.5 MM	7.5 MM	8.0 MM	STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY				
		DIM R: HOUSING HEIGHT		.199	.238	.258	.297	.297					
		POSITION	DIM M	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO					
		19	1.232	45971-0115	45971-0215	45971-0315	45971-0415	45971-0515					
		10	0.782	45971-1115	45971-1215	45971-1315	45971-1415	45971-1515					
		20	1.282	45971-2115	45971-2215	45971-2315	45971-2415	45971-2515					
		30	1.782	45971-3115	45971-3215	45971-3315	45971-3415	45971-3515					
		40	2.282	45971-4115	45971-4215	45971-4315	45971-4415	45971-4515					
		50	2.782	45971-5115	45971-5215	45971-5315	45971-5415	45971-5515					
		15	1.032	45971-6115	45971-6215	45971-6315	45971-6415	45971-6515					
		25	1.532	45971-7115	45971-7215	45971-7315	45971-7415	45971-7515					
		35	2.032	45971-8115	45971-8215	45971-8315	45971-8415	45971-8515					
		45	2.532	45971-9115	45971-9215	45971-9315	45971-9415	45971-9515					
B	NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 10 SOLDER CHARGE: TIN PACKAGING: TRAYS AND TAPE AND REEL												
	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05 REV	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		SEARAY RECEPTACLE ASSEMBLY .050 CENTERS MOLEX INCORPORATED		
		4 PLACES ± --- ± ---		DRAWN BY DATE TGREGORI 2005/05/17		TITLE							
		3 PLACES ± --- ± .005		CHECKED BY DATE JCOMERC I 2005/05/17									
		2 PLACES ± --- ± ---		APPROVED BY DATE JCOMERC I 2010/03/05									
		1 PLACE ± --- ± ---		MATERIAL NO.		DOCUMENT NO.							
		ANGULAR ± ---°		SEE CHART						SD-45971-001			
		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							
		tb_frame_A_P_AM_T Rev. E 2006/04/15											

D	6		5		4		3		2		1			
	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
	DIM R: HOUSING HEIGHT													
	POSITION		DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
	19		1.232	45971-0113		45971-0213		45971-0313		45971-0413		45971-0513		
	10		0.782	45971-1113		45971-1213		45971-1313		45971-1413		45971-1513		
	20		1.282	45971-2113		45971-2213		45971-2313		45971-2413		45971-2513		
	30		1.782	45971-3113		45971-3213		45971-3313		45971-3413		45971-3513		
	40		2.282	45971-4113		45971-4213		45971-4313		45971-4413		45971-4513		
	50		2.782	45971-5113		45971-5213		45971-5313		45971-5413		45971-5513		
15		1.032	45971-6113		45971-6213		45971-6313		45971-6413		45971-6513			
C	5		4		3		2		1					
	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
	DIM R: HOUSING HEIGHT													
	POSITION		DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
	19		1.232	45971-0117		45971-0217		45971-0317		45971-0417		45971-0517		
	10		0.782	45971-1117		45971-1217		45971-1317		45971-1417		45971-1517		
	20		1.282	45971-2117		45971-2217		45971-2317		45971-2417		45971-2517		
	30		1.782	45971-3117		45971-3217		45971-3317		45971-3417		45971-3517		
	40		2.282	45971-4117		45971-4217		45971-4317		45971-4417		45971-4517		
	50		2.782	45971-5117		45971-5217		45971-5317		45971-5417		45971-5517		
15		1.032	45971-6117		45971-6217		45971-6317		45971-6417		45971-6517			
B	5		4		3		2		1					
	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
	DIM R: HOUSING HEIGHT													
	POSITION		DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
	19		1.232	45971-0117		45971-0217		45971-0317		45971-0417		45971-0517		
	10		0.782	45971-1117		45971-1217		45971-1317		45971-1417		45971-1517		
	20		1.282	45971-2117		45971-2217		45971-2317		45971-2417		45971-2517		
	30		1.782	45971-3117		45971-3217		45971-3317		45971-3417		45971-3517		
	40		2.282	45971-4117		45971-4217		45971-4317		45971-4417		45971-4517		
	50		2.782	45971-5117		45971-5217		45971-5317		45971-5417		45971-5517		
15		1.032	45971-6117		45971-6217		45971-6317		45971-6417		45971-6517			
A	5		4		3		2		1					
	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
	DIM R: HOUSING HEIGHT													
	POSITION		DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
	19		1.232	45971-0117		45971-0217		45971-0317		45971-0417		45971-0517		
	10		0.782	45971-1117		45971-1217		45971-1317		45971-1417		45971-1517		
	20		1.282	45971-2117		45971-2217		45971-2317		45971-2417		45971-2517		
	30		1.782	45971-3117		45971-3217		45971-3317		45971-3417		45971-3517		
	40		2.282	45971-4117		45971-4217		45971-4317		45971-4417		45971-4517		
	50		2.782	45971-5117		45971-5217		45971-5317		45971-5417		45971-5517		
15		1.032	45971-6117		45971-6217		45971-6317		45971-6417		45971-6517			
25		1.532	45971-7117		45971-7217		45971-7317		45971-7417		45971-7517			
35		2.032	45971-8117		45971-8217		45971-8317		45971-8417		45971-8517			
45		2.532	45971-9117		45971-9217		45971-9317		45971-9417		45971-9517			
NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 10 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL														
SEE SHEET 1 EC NO: UCP2010-2270 DRWN:TGREGORI 2010/03/05 CH'KD:JCOMERC I 2005/05/17 APPR:JCOMERC I 2010/03/05 REV														
GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														
DIMENSION STYLE INCH ONLY DRAWN BY DATE TGREGORI 2005/05/17 CHECKED BY DATE JCOMERC I 2005/05/17 APPROVED BY DATE JCOMERC I 2010/03/05 MATERIAL NO. SEE CHART SIZE A THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
SCALE 1:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION SEARAY RECEPTACLE ASSEMBLY .050 CENTERS MOLEX INCORPORATED DOCUMENT NO. SD-45971-001 SHEET NO. 8 OF 10														
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		6		5		4		3		2		1			
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
		DIM R: HOUSING HEIGHT													
		POSITION		DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19		1.232	45971-0121		45971-0221		45971-0321		45971-0421		45971-0521		
		10		0.782	45971-1121		45971-1221		45971-1321		45971-1421		45971-1521		
		20		1.282	45971-2121		45971-2221		45971-2321		45971-2421		45971-2521		
		30		1.782	45971-3121		45971-3221		45971-3321		45971-3421		45971-3521		
		40		2.282	45971-4121		45971-4221		45971-4321		45971-4421		45971-4521		
		50		2.782	45971-5121		45971-5221		45971-5321		45971-5421		45971-5521		
		15		1.032	45971-6121		45971-6221		45971-6321		45971-6421		45971-6521		
		25		1.532	45971-7121		45971-7221		45971-7321		45971-7421		45971-7521		
		35		2.032	45971-8121		45971-8221		45971-8321		45971-8421		45971-8521		
		45		2.532	45971-9121		45971-9221		45971-9321		45971-9421		45971-9521		
		C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM			8.0 MM
DIM R: HOUSING HEIGHT															
POSITION				DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
19				1.232	45971-0125		45971-0225		45971-0325		45971-0425		45971-0525		
10				0.782	45971-1125		45971-1225		45971-1325		45971-1425		45971-1525		
20				1.282	45971-2125		45971-2225		45971-2325		45971-2425		45971-2525		
30				1.782	45971-3125		45971-3225		45971-3325		45971-3425		45971-3525		
40				2.282	45971-4125		45971-4225		45971-4325		45971-4425		45971-4525		
50				2.782	45971-5125		45971-5225		45971-5325		45971-5425		45971-5525		
15				1.032	45971-6125		45971-6225		45971-6325		45971-6425		45971-6525		
25				1.532	45971-7125		45971-7225		45971-7325		45971-7425		45971-7525		
35				2.032	45971-8125		45971-8225		45971-8325		45971-8425		45971-8525		
45				2.532	45971-9125		45971-9225		45971-9325		45971-9425		45971-9525		
B	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CH'KD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05 REV			DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 3:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
			mm		INCH	DRAWN BY	DATE	SEARAY RECEPTACLE ASSEMBLY .050 CENTERS							
		4 PLACES	± ---		± ---	TGREGORI	2005/05/17								
		3 PLACES	± ---		± .005	CHECKED BY	DATE								
		2 PLACES	± ---		± ---	JCOMERC I	2005/05/17								
		1 PLACE	± ---		± ---	APPROVED BY	DATE	MOLEX INCORPORATED							
		ANGULAR ± ---°			JCOMERC I	2010/03/05									
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001			SHEET NO. 9 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		

NOTES:
 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS
 NO OF ROWS: 12
 SOLDER CHARGE: TIN
 PACKAGING: TRAYS AND TAPE AND REEL

		6		5		4		3		2		1		
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0123		45971-0223		45971-0323		45971-0423		45971-0523		
		10	0.782	45971-1123		45971-1223		45971-1323		45971-1423		45971-1523		
		20	1.282	45971-2123		45971-2223		45971-2323		45971-2423		45971-2523		
		30	1.782	45971-3123		45971-3223		45971-3323		45971-3423		45971-3523		
		40	2.282	45971-4123		45971-4223		45971-4323		45971-4423		45971-4523		
		50	2.782	45971-5123		45971-5223		45971-5323		45971-5423		45971-5523		
		15	1.032	45971-6123		45971-6223		45971-6323		45971-6423		45971-6523		
		25	1.532	45971-7123		45971-7223		45971-7323		45971-7423		45971-7523		
		35	2.032	45971-8123		45971-8223		45971-8323		45971-8423		45971-8523		
45	2.532	45971-9123		45971-9223		45971-9323		45971-9423		45971-9523				
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0127		45971-0227		45971-0327		45971-0427		45971-0527		
		10	0.782	45971-1127		45971-1227		45971-1327		45971-1427		45971-1527		
		20	1.282	45971-2127		45971-2227		45971-2327		45971-2427		45971-2527		
		30	1.782	45971-3127		45971-3227		45971-3327		45971-3427		45971-3527		
		40	2.282	45971-4127		45971-4227		45971-4327		45971-4427		45971-4527		
		50	2.782	45971-5127		45971-5227		45971-5327		45971-5427		45971-5527		
		15	1.032	45971-6127		45971-6227		45971-6327		45971-6427		45971-6527		
		25	1.532	45971-7127		45971-7227		45971-7327		45971-7427		45971-7527		
		35	2.032	45971-8127		45971-8227		45971-8327		45971-8427		45971-8527		
45	2.532	45971-9127		45971-9227		45971-9327		45971-9427		45971-9527				
B	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
			4 PLACES		± ---	± ---	DRAWN BY TGREGORI		DATE 2005/05/17	SEARAY RECEPTACLE ASSEMBLY .050 CENTERS MOLEX INCORPORATED				
			3 PLACES		± ---	± .005	CHECKED BY JCOMERC I		DATE 2005/05/17					
			2 PLACES		± ---	± ---	APPROVED BY JCOMERC I		DATE 2010/03/05					
			1 PLACE		± ---	± ---	MATERIAL NO.		DOCUMENT NO.					SHEET NO.
			ANGULAR ± ---°			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART			SD-45971-001		
			SIZE A			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
			10 OF 10											
			Rev. E 2006/04/15											